# **Attached Table 3 Appendix Table of Keywords**

# "Categories, Areas, Disciplines and Research Fields"

1) The first stage of the screening of the research fields followed by A or B in each category of the division column is carried out in two separate groups. The basis for this division in two groups is the keywords shown in all the research categories (except for "Overseas Academic Research"). Make sure to select A or B based on the keyword, when applying for the research fields in the list.

2) The first stage of the screening of the research fields followed by the numbers 1 to 5 in each category of the division column is carried out in separate groups. The basis for this division in separate groups is the keywords shown in "Scientific Research (C)". Make sure to select a number from 1 to 5 based on the keyword, when applying for the research fields in the list for "Scientific Research (C)". For research fields that include ※A or ※B, choose either A or B and division number 1 or 2.

Category: Integrated Disciplines

#### **Area: Informatics**

**Discipline: Principles of Informatics** 

(	Discipline	: Principles	of Informatic	$_{\rm S})$
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Item Number	Research Field		Screening Sub-panel Number / Keyword	Item Number	Research Field			Screening Sub-panel Number / Keyword
		1	Theory of computation				1	Programming language
		2	Automata theory / Formal language theory				2	Programming methodology
		3	3 Mathematical theory of programs				3	Programming language processor
		4	Computational complexity theory				4	Parallel distributed computing
		5	Algorithm theory				5	Operating system
1001	Theory of	6	Cryptosystem				6	High-dependable system
1001	informatics	7	Discrete structure	1102	Software		7	Virtualization technology
		8	Computational learning theory	1			8	Software security
		9	Theory of quantum computation	1			9	Cloud computing infrastructure
		10	Mathematical logic	11			10	Software engineering
		11	Information theory	11			11	Specification and verification
		12	Coding theory	1			12	Development environment
		1	Optimization theory				13	Development management
		2	Mathematical finance				1	Network architecture
		3	Mathematical system theory				2	Network protocol
		4	System control theory				3	Internet
	Mathematical	5	System analysis				4	Mobile network
1002	informatics	6	System methodology	11			5	Overlay network
		7	System modeling	11	Information		6	Sensor network
		8	System simulation	1103	network		7	Traffic engineering
		9	Combinatorial optimization					Network design, operation, management and
		10	Queueing theory	11			8	analysis technology
1003		1	Research survey and experimental design	11			9	Ubiquitous computing
		2	Multivariate analysis	11			10	Service prosivion infrastructure
		3	Time series analysis	11			11	Information home appliances
		4	Statistical pattern recognition				1	Data model
		5	Statistical inference	11			2	Relational database
			Computational statistics and computer aided	11			3	Database system
		6	statistics				4	Multimedia information acquisition
		7	Statistical prediction and control	1			5	Multimedia information processing
	Statistical	8	Model selection	1			6	Multimedia information representation
	science	9	Pharmaceutical / genome statistical analysis	1104	Multimedia		7	Multimedia information generation
		10	Behaviormetrics	1	database	H	8	Information retrieval
		11	Spatial / environmental statistics	11		l	9	Structured document
		12	Statistics education	1		l	10	Content distribution and management
		13	Statistical quality control	11		⊢	11	Geographic information system
		14	Statistical learning theory	+		l -		Metadata
		15	Social research and analysis plan	+		l +	13	Big data analysis and utilization
		16	Data science	+		$\vdash$	1	Parallel processing
		17	Hypothesis testing	H			2	Distributed processing
	I	17	11) poure is testing	1	High	-	3	Grid and Cloud computing
Dice	ipline: Principle	os of I	nformatics	1105	High 05 performance		4	Numerical analysis
Item	Research Field	CS UI I	Screening Sub-panel Number / Keyword	7   1103	computing	-	5	Visualization
Number	ACSCRICII I ICIU		bercening buo-paner radiiber / Keyword	1.1	Companing	1 1	J	v iouanzation

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Computer architecture
		2	Circuit and system
		3	LSI design technology
1101	Computer	4	Reconfigurable system
1101	system	5	High-dependable architecture
		6	Low power technology
		7	hardware / software co-design
		8	Embedded system

6 Computer graphics

7 High performance computing application

(Discipline: Principles of Informatics)

Item Number	Research Field		Screening Sub-panel Number / Keyword
rumoci		1	Access control
		2	Personal identification
		3	Cryptography
		4	Authentication
	Information	5	Security evaluation / audit
		6	Malware countermeasures
1106		7	Network security
1106	security	8	Unauthorized access countermeasure
		9	Software protection
		10	Privacy protection
		11	Information filtering
		12	Digital forensics
		13	Biometrics
		14	Tamper resistance technology

Discipline: Human informatics

	ipline: Human	inforn	natics
Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Evolution, development, learning
		2	Cognition, memory, education
		3	Thought, inference, problem solving
		4	Sensation, perception, kansei
		5	Emotion / Feeling / Behavior
		6	Cognitive psychology
		7	Comparative cognitive psychology
	C:t:	8	Cognitive philosophy
1201	Cognitive science	9	Brain cognitive science
	science	10	Cognitive linguistics
		11	Comparative decision making theory
		12	Cognitive engineering
		13	Cognitive archaeology
		14	Cognitive model
		15	Sociability
		16	Law and psychology
		17	Safety and human factor
		1	Pattern recognition
		2	Image processing
		3	Computer vision
		4	Computational photography
		5	Human measurement
		6	Intelligent image editing
	Perceptual	7	Visual media processing
1202	information	8	Image database
	processing	9	Speech processing
		10	Acoustic information processing
		11	Speech / Sound database
		12	Information sensing
		13	Sensor fusion
		14	Sensing devices / systems
		15	Tangible sensing
		1	Human interface
		2	Multi-modal interface
		3	Human-computer interaction
		4	CSCW
	**	5	Groupware
1202	Human	6	Virtual reality
1203	interface and interaction	7	Augmented Reality
	interaction	8	Mixed reality
		9	Realistic communication
		10	Wearable device
		11	Usability
		12	Ergonomics
		1	Search, logic, inference algorithms
		2	Machine learning
		3	Knowledge acquisition
		4	Knowledge-based system
	Intelligent	5	Intelligent system architecture
1204	Intelligent informatics	6	Intelligent information processing
	miormanes	7	Natural language processing
		8	Knowledge discovery and data mining
		9	Ontology
		10	Human-agent interaction
		11	Multi-agent system
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	cipline: Human	inforn		
Item Number	Research Field		Screening Sub-panel Number / Keyword	
		1	Neural network	
	Soft	2	Genetic algorithm	
		3	Fuzzy theory	
1205	computing	4	Chaos	
	computing	5	Fractal	
		6	Complex systems	
		7	Probabilistic information processing	
		1	Intelligent robot	
		2	Behavior and environment recognition	
		3	Motion planning	
	Intalligant	4	Sensory behavior system	
1206	Intelligent robotics	5	Autonomous system	
	Tobotics	6	Digital human model	
		7	Real world information processing	
		8	Physical agents	
		9	Intelligent roomAnimation	
		1	Kansei design	
		2	Kansei expression	
		3	Kansei recognition	
		4	Kansei cognitive science, Kansei phychology	
		5	Kansei robotics	
		6	Kansei measurement evaluation	
		7	Ambiguity and kansei	
		8	Kansei information processing	
	Kansei	9	Kansei database	
1207	informatics	10	Kansei interface	
	illiorillatics	11	Kansei physiology	
		12	Kansei material products	
		13	Sensitivity industry	
		14	Kansei environmental science	
		15	Kansei sociology	
		16	Kansei philosophy	
		17	17 Kansei pedagogy	
		18	Kansei brain science	
		19	Kansei management	
			+	

Discipline: Frontiers of informatics						(Discipline: Frontiers of informatics)			
Item Number	Research Field			Screening Sub-panel Number / Keyword	Item Numbe	Research Field			Screening Sub-panel Number / Keyword
			1	Bioinformatics			A	]	Library and information science]
			2	Genome information processing					1 Library science
			3	Proteome information processing					2 Information services
			4	Computer simulation					3 Library information systems
			5	Life informatics					4 Digital archives
			6	Biological information					5 Information organization
			7	Neuroinformatics					6 Information retrieval
			8	Neural information processing					7 Information media
1201	Life / Health /		9	Artificial life system					8 Bibliometrics and scientometrics
1301	Medical		10	Molecular computing					Construction and management of information
	informatics		11	DNA computing	71				resources
			12	Medical information		Library and	В	[	Humanistic social informatics]
			13	Diagnostic imaging		information			0 Information ethics
			14	Remote diagnosis and treatment	1303	science/			1 Media environment
			15	Sanitation information		Humanistic			2 Literature information
			16	Health information		social informatics			3 Historical information
			17	Medical image		illiorillatics			4 Information sociology
			18	Intracellular logistics analysis					15 Law information
		Α	[W	eb informatics]					6 Information economics
			1	Web system					7 Management information
			2	Web computing					8 Educational information
			3	Social web					9 Art information
			4	Semantic web					20 Medical information
			5	Recommendation system					21 Science and technology information
			6	Web service					22 Intellectual property information
			7	Web mining					23 Geographic information
			8	Web intelligence					24 Local informatization
			9	Social network analysis					1 Media Literacy
			10	Netwrok community					2 Learning media
	Web	В	[Se	rvice informatics]					3 Social media
	informatics,		11	Service engineering					4 Learning content development support
1302	Service		12	Service management		Learning			5 Learning management system
	informatics		13	Quality of Service	1304	support			6 Intelligent Learning support system
			14	Queue		system			7 Remote learning
			15	Business model					8 Distributed collaborative learnig support system
			16	Service-oriented architecture					9 Project-based learning support system
			17	Knowledge management	- 1				10 e-Learning
			_	Educational services	- 1				11 Use and evaluation
			19	Medical welfare service	1 -				1 Music information processing
			20	Intelligent transport systems	-				2 Performance support
				Financial service					3 3D content and animation
			22	Social and environmental service				-	4 Game programming
			-	Smart grid	$\exists \bot$	Entertainment		-	5 Network entertainment
			-	Management of technology	1305	and game			6 Media art
			-	1 0	-	informatics		- 1-	7 Interactive art
								-	8 Digital archives
								-	9 Digital museum / Virtual museum
								_	10 Information culture
						1			

#### **Area: Environmental science**

Discipline: Environmental analyses and evaluation

Item Number	Research Field			Screening Sub-panel Number / Keyword
rumoci			1	Environmental change
				Biogeochemical cycle
				Environmental measurements
			4	Environmental model
	Environmental		5	Environmental information
1401	dynamic		6	Global warming
	analysis		7	Global change of water cycle
			8	Environmental monitoring of the polar regions
			9	Chemical oceanography
			_	Biological oceanography
				Remote sensing
			_	Environmental radiation
			2	Protection
			3	Basic process
		Α	4	Dosimetry and assessment
			5	Damage
	Risk sciences		6	Response
			7	Repair
1402	of radiation and		8	Sensitivity
	chemicals		9	Impact on life
	chemicais		10	Risk assessment
			11	Radiation management and control
			12	Toxicology
		В	13	Toxic substance to human
			14	Estimation of trace chemicals pollution
			15	Endocrine disrupting substances
			1	Terrestrial, aquatic, and atmospheric impact assessment
			2	Impact assessment on ecosystem
				Impact assessment methods
	Environmental			Impact assessment on human health
1403	impact assessment		5	Environmental impact assessment on the future generation
			6	Human activities in polar regions
			7	Environmental monitoring
			8	Model simulation
			9	
L			9	Environmental impact assessment

Discipline: Environmental conservation

Disc	Discipline: Environmental conservation						
Item Number	Research Field		Screening Sub-panel Number / Keyword				
		1	Reduction of wastewater, exhaust gas and solid wastes				
	Environmental	2	Appropriate treatment and disposal				
1501	engineering and reduction of	3	Closed process and integrated pollution control				
1301	environmental	4	Pollutants separation and removal technologies				
	burden	5	Control of noise, vibration and ground subsidence				
		6	Environmental analysis				
		7	Simplified analysis and monitoring				
		1	Environmental impact analysis				
	Modeling and	2	Environmental pollution survey and evaluation				
	technologies	3	Pollutants removal and remediation technologies				
1502	for environmental conservation and remediation	4	Monitoring and modeling of pollutants behavior in environment				
		5	Biological treatment and remediation				
		6	Impact on environment and ecosystem				
		7	Surface water, ground water and soil				

(Discipline: Environmental conservation)

Item	Research Field	Field Screening Sub-panel Number / Keyword					
Number		1	Design and production of recycle materials				
			Reduction, reuse, recycle (3R)				
		_	Recovery of valuables				
	Environmental	4	Separation and purification				
		5	Appropriate treatment and disposal				
1503	materials and	6	Recycling and life cycle assessment(LCA)				
	recycle	7	Environmental conscious design				
		8	Green productions				
		9	Zero-emission				
		10	Chemistry for material recycle				
		1	Identification and analytical evaluation of				
		Ĺ	pollutants				
		2	Monitoring				
		3	Transport, diffusion and accumulation of				
			pollutants				
			Environmental criteria and standards				
	Environmental	5	Life environment and health items				
1504	risk control and	6	Emission quality standards				
1504	evaluation	7	Evaluation of cross-border pollution				
		8	Chemicals management				
		9	Exposure scenario				
		10	Risk evaluation				
			Precautionaly principle				
			Biodegradation and bioaccumulation				
		13	Genetic and ecological toxicities				
		14	Risk communication				

Discipline: Sustainable and environmental system development

Disc	ipline: Sustain	able a	ind environmental system development
Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Biodiversity
		2	Ecosystem functions and services
		3	Ecological risks
		4	Ecosystem impact analysis
1601	Environmental and ecological	5	Ecosystem management and conservation
1001	symbiosis	6	Remote sensing
		7	Landscape and ecosystem
		8	Rehabilitation of environment ecosystem
		ç	Mitigation
		1	Ecological engineering
		1	Sound material recycle system
		2	Low carbon society
		3	Renewable energy
	Design and	4	Biomass utilization
	evaluation of	4	Design and planning of environmental conscious
1602	sustainable and environmental	-	areas
	conscious	6	Water resources and water use system
	system	7 8	Industrial symbiosis
			Material and energy flow analysis
		Š	Life cycle assessment (LCA)
		1	Integrated pollution prevention and control

(Discipline: Sustainable and environmental system development)

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Environmental philosophy and ethics
		2	Environmental justice
		3	Environmental economics
		4	Environmental laws
		5	Environmental information
		6	Environmental geographical information
		7	Environmental education
1603	Environmental	8	Environmental management
1003	policy and social systems	9	Environment and social activities
	Social Systems	10	Environmental standard and auditing
		11	Consensus forming
		12	Environmental safety and security
		13	Corporate social responsibility
		14	Social and economical system
		15	Public system and management
		16	Sustainable development

### Area: Complex systems

Discipline: Design science

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Information design(Communication, media, contents, interaction, interface)
		2	Environmental design (Architecture, Urban, Landscape)
		3	Industrial design (Product design, universal design)
	Design science	4	Art
1651		5	Aesthetics
		6	Design history
		7	Theory for design
		8	Design standard
		9	Design support
		10	3D modeling & acoustic modeling
		11	Analysis & evaluation for design
		12	Design education

Research Field   Screening Sub-panel Number / Keyword		iscipline: Human life science							
1701 Home 1701 Home 1701 Human life  Home 1701  Consumer education 11 Consumer education 12 Philosophy of home economics 13 Materials and goods for living 14 Design for living 15 daily life 1 Human life and clothing 2 Clothing and environment 3 Dyeing and finishing treatment 4 Clothing culture 6 History of costume 7 Clothing and environment 8 Clothing and environment 9 Clothing and environment 10 Design for living 11 House economics 12 Philosophy of home economics 13 Materials and goods for living 14 Design for living 15 daily life 1 Human life and clothing 2 Clothing and environment 3 Dyeing and finishing treatment 4 Clothing design and manufacturing 5 Clothing materials 6 History of costume 7 Clothing culture 8 Clothing culture 8 Clothing psychology 9 Dwelling life 10 Planning of housing 11 Housing management 12 Housing history 13 Interior, housing and living environment design housing structure and material 16 City planning and community policy 17 Child-raising environment 18 Housing for the elderly 19 Housing environment for the elderly and peop with disabilities	Item Number Re	esearch Field		Screening Sub-panel Number / Keyword					
Home 1701 Home 1701 Human life Human life  Human life  Human life  6 Human life and culture  7 Life of the elderly  8 Well-being for individual and family  9 Child care, Child rearing  10 Home economics education  11 Consumer education  12 Philosophy of home economics  13 Materials and goods for living  14 Design for living  Manufacturing, Skills of making products for daily life  1 Human life and clothing  2 Clothing and environment  3 Dyeing and finishing treatment  4 Clothing design and manufacturing  5 Clothing materials  6 History of costume  7 Clothing culture  8 Clothing sychology  9 Dwelling life  10 Planning of housing  11 Housing management  12 Housing history  13 Interior, housing and living environment design through the proposed in the propose			1	Family resource management					
Home 1701 Home 1701 Human life  Human life  Human life  Conomics/ Human life  Clothing life/Dwelling life  Clothing life  Design for living life and clothing life			2	Family finance and consumer issues					
Home economics/ Human life  Home economics/ Human life  Home economics/ Human life  Robbit State			3	Family					
Home economics/ Human life  6 Human life and culture 7 Life of the elderly 8 Well-being for individual and family 9 Child care, Child rearing 10 Home economics education 11 Consumer education 12 Philosophy of home economics 13 Materials and goods for living 14 Design for living 15 Manufacturing, Skills of making products for daily life 1 Human life and clothing 2 Clothing and environment 3 Dyeing and finishing treatment 4 Clothing design and manufacturing 5 Clothing materials 6 History of costume 7 Clothing culture 8 Clothing sychology 9 Dwelling life 10 Planning of housing 11 Housing management 12 Housing history 13 Interior, housing and living environment design through the proposed proposed in the proposed			4	Lifestyle					
Home economics/ Human life  7 Life of the elderly 8 Well-being for individual and family 9 Child care, Child rearing 10 Home economics education 11 Consumer education 12 Philosophy of home economics 13 Materials and goods for living 14 Design for living 15 Manufacturing, Skills of making products for daily life 1 Human life and clothing 2 Clothing and environment 3 Dyeing and finishing treatment 4 Clothing design and manufacturing 5 Clothing materials 6 History of costume 7 Clothing culture 8 Clothing culture 8 Clothing psychology 9 Dwelling life 10 Planning of housing 11 Housing management 12 Housing history 13 Interior, housing and living environment design through the proposition of the elderly 14 Housing for the elderly 15 Housing environment 16 City planning and community policy 17 Child-raising environment 18 Housing for the elderly 19 Housing environment for the elderly and peop with disabilities			5	Information for living					
Home economics/ Human life  8 Well-being for individual and family 9 Child care, Child rearing 10 Home economics education 11 Consumer education 12 Philosophy of home economics 13 Materials and goods for living 14 Design for living 15 Manufacturing, Skills of making products for daily life 1 Human life and clothing 2 Clothing and environment 3 Dyeing and finishing treatment 4 Clothing design and manufacturing 5 Clothing materials 6 History of costume 7 Clothing culture 8 Clothing culture 8 Clothing culture 8 Clothing psychology 9 Dwelling life 10 Planning of housing 11 Housing management 12 Housing history 13 Interior, housing and living environment design through the proposed point of the elderly 14 Housing for the elderly 15 Housing environment 16 City planning and community policy 17 Child-raising environment 18 Housing for the elderly 19 Housing environment for the elderly and peop with disabilities			6	Human life and culture					
8 Well-being for individual and family 9 Child care, Child rearing 10 Home economics education 11 Consumer education 12 Philosophy of home economics 13 Materials and goods for living 14 Design for living 15 daily life 1 Human life and clothing 2 Clothing and environment 3 Dyeing and finishing treatment 4 Clothing design and manufacturing 5 Clothing materials 6 History of costume 7 Clothing culture 8 Clothing culture 8 Clothing culture 8 Clothing psychology 9 Dwelling life 10 Planning of housing 11 Housing management 12 Housing history 13 Interior, housing and living environment design through the properties of the community policy 17 Child-raising environment 18 Housing for the elderly 19 Housing environment for the elderly and peop with disabilities			7	Life of the elderly					
Human life  9   Child care, Child rearing 10   Home economics education 11   Consumer education 12   Philosophy of home economics 13   Materials and goods for living 14   Design for living 15   Manufacturing , Skills of making products for daily life 1   Human life and clothing 2   Clothing and environment 3   Dyeing and finishing treatment 4   Clothing design and manufacturing 5   Clothing materials 6   History of costume 7   Clothing culture 8   Clothing psychology 9   Dwelling life 10   Planning of housing 11   Housing management 12   Housing management 12   Housing and living environment design and material 14   Dwelling environment and equipment 15   Housing structure and material 16   City planning and community policy 17   Child-raising environment 18   Housing for the elderly 19   Housing environment for the elderly and peop with disabilities			8	Well-being for individual and family					
10 Home economics education 11 Consumer education 12 Philosophy of home economics 13 Materials and goods for living 14 Design for living 15 Manufacturing , Skills of making products for daily life 1 Human life and clothing 2 Clothing and environment 3 Dyeing and finishing treatment 4 Clothing design and manufacturing 5 Clothing materials 6 History of costume 7 Clothing culture 8 Clothing culture 8 Clothing psychology 9 Dwelling life 10 Planning of housing 11 Housing management 12 Housing history 13 Interior, housing and living environment design through the product of the provious provious plant of the company of the company of the provious plant of the company of the comp			9	Child care, Child rearing					
12 Philosophy of home economics 13 Materials and goods for living 14 Design for living 15 Manufacturing, Skills of making products for daily life 1 Human life and clothing 2 Clothing and environment 3 Dyeing and finishing treatment 4 Clothing design and manufacturing 5 Clothing materials 6 History of costume 7 Clothing culture 8 Clothing culture 8 Clothing psychology 9 Dwelling life 10 Planning of housing 11 Housing management 12 Housing history 13 Interior, housing and living environment design through the product of the pro	l liu	man me	10	Home economics education					
13 Materials and goods for living 14 Design for living 15 Manufacturing, Skills of making products for daily life 1 Human life and clothing 2 Clothing and environment 3 Dyeing and finishing treatment 4 Clothing design and manufacturing 5 Clothing materials 6 History of costume 7 Clothing culture 8 Clothing culture 8 Clothing psychology 9 Dwelling life 10 Planning of housing 11 Housing management 12 Housing history 13 Interior, housing and living environment design through the product of the produ			11	Consumer education					
14 Design for living 15 Manufacturing, Skills of making products for daily life  1 Human life and clothing 2 Clothing and environment 3 Dyeing and finishing treatment 4 Clothing design and manufacturing 5 Clothing materials 6 History of costume 7 Clothing culture 8 Clothing culture 8 Clothing psychology 9 Dwelling life 10 Planning of housing 11 Housing management 12 Housing management 12 Housing history 13 Interior, housing and living environment design through the product of the p			12	Philosophy of home economics					
15   Manufacturing , Skills of making products for daily life     1   Human life and clothing     2   Clothing and environment     3   Dyeing and finishing treatment     4   Clothing design and manufacturing     5   Clothing materials     6   History of costume     7   Clothing culture     8   Clothing gulture     8   Clothing psychology     9   Dwelling life     10   Planning of housing     11   Housing management     12   Housing history     13   Interior, housing and living environment design     14   Dwelling environment and equipment     15   Housing structure and material     16   City planning and community policy     17   Child-raising environment     18   Housing for the elderly     19   Housing environment for the elderly and peop with disabilities			13	Materials and goods for living					
Clothing 1702 life/Dwelling life 18			14	Design for living					
Clothing  Clothi			1.5	Manufacturing, Skills of making products for					
2 Clothing and environment 3 Dyeing and finishing treatment 4 Clothing design and manufacturing 5 Clothing materials 6 History of costume 7 Clothing culture 8 Clothing psychology 9 Dwelling life 10 Planning of housing 11 Housing management 12 Housing management 12 Housing history 13 Interior, housing and living environment design through the properties of the properties			13	daily life					
Clothing life/Dwelling life  Clothing life  Clothing  1702  Clothing  Clothi			1	Human life and clothing					
Clothing life/Dwelling life  Clothing life  Dwelling life  10 Planning of housing  11 Housing management  12 Housing history  13 Interior, housing and living environment design  14 Dwelling environment and equipment  15 Housing structure and material  16 City planning and community policy  17 Child-raising environment  18 Housing for the elderly  Housing environment for the elderly and peop with disabilities			2	Clothing and environment					
Clothing life/Dwelling life  Clothing life  Dwelling life  Planning of housing  Housing management  Housing mistory  Interior, housing and living environment design  Dwelling environment and equipment  Housing structure and material  City planning and community policy  Child-raising environment  Housing for the elderly  Housing environment for the elderly and peopwith disabilities			3	Dyeing and finishing treatment					
Clothing life/Dwelling life  Clothing eulture  8 Clothing psychology  9 Dwelling life  10 Planning of housing  11 Housing management  12 Housing history  13 Interior, housing and living environment design the properties of the p			4	Clothing design and manufacturing					
Clothing life/Dwelling life  Clothing life  Clothing life  Clothing life  Clothing life  Clothing life  Clothing life  Dwelling life  Planning of housing  Housing management  Plansing management  Housing history  Interior, housing and living environment design  Dwelling environment and equipment  Housing structure and material  City planning and community policy  Child-raising environment  Housing for the elderly  Housing environment for the elderly and peopwith disabilities			5	Clothing materials					
Clothing life/Dwelling life  Clothing life  Clothing life  Clothing life  Clothing life  Clothing life  Dwelling life  Planning of housing  Housing management  Plansing management  Housing management  Dwelling living environment design  Light plansing and living environment design  Dwelling environment and equipment  Housing structure and material  City planning and community policy  Child-raising environment  Housing for the elderly  Housing environment for the elderly and peopwith disabilities			6	History of costume					
Clothing life/Dwelling life  1702 life/Dwelling life  10 Planning of housing  11 Housing management  12 Housing history  13 Interior, housing and living environment design to be provided in the provided in the planning and community policy  14 Dwelling environment and equipment  15 Housing structure and material  16 City planning and community policy  17 Child-raising environment  18 Housing for the elderly  19 Housing environment for the elderly and peop with disabilities			7	Clothing culture					
Clothing life/Dwelling life life  Clothing life/Dwelling life  10 Planning of housing 11 Housing management 12 Housing history 13 Interior, housing and living environment design of the life power of the life po			8	Clothing psychology					
Clothing life/Dwelling life life  11 Housing management 12 Housing history 13 Interior, housing and living environment designation and the properties of the			9	Dwelling life					
1702 life/Dwelling life  11 Housing management 12 Housing history 13 Interior, housing and living environment design the properties of the	Cla	-41- :	10	Planning of housing					
life  12 Housing history 13 Interior, housing and living environment design the properties of the prop			11	Housing management					
13 Interior, housing and living environment design 14 Dwelling environment and equipment 15 Housing structure and material 16 City planning and community policy 17 Child-raising environment 18 Housing for the elderly Housing environment for the elderly and peopwith disabilities	1 1	-	12	Housing history					
15 Housing structure and material 16 City planning and community policy 17 Child-raising environment 18 Housing for the elderly Housing environment for the elderly and peop with disabilities	IIIC	·	13	Interior, housing and living environment design					
16 City planning and community policy 17 Child-raising environment 18 Housing for the elderly Housing environment for the elderly and peop with disabilities			14	Dwelling environment and equipment					
17 Child-raising environment 18 Housing for the elderly Housing environment for the elderly and peop with disabilities			15	Housing structure and material					
Housing for the elderly Housing environment for the elderly and peop with disabilities			16	City planning and community policy					
Housing environment for the elderly and peop with disabilities			17	Child-raising environment					
with disabilities			18	Housing for the elderly					
20 Dwalling culture			19	Housing environment for the elderly and people with disabilities					
20   Dwelling culture			20	Dwelling culture					
21 Housing information and housing education			21	Housing information and housing education					

(Discipline: Human life science)

Item Number	Research Field				Screening Sub-panel Number / Keyword
		Α		[Fo	od and cooking]
				1	Cooking and processing
				2	Food storage
				3	Sensory evaluation
				4	Food materials
				5	Cooking and functional constituent
				6	Food service
				7	Food culture
				8	Texture
			3_	9	Mastication and swallowing
1703	Eating habits	В		[Di	et and health]
		1	1	10	Health and dietary life
			1	11	Diet and nutrition
				12	Dietary education
				13	Dietary habits
				14	Dietary behavior
			2	15	Dietary information
			-	16	Food with health claims
				17	Food and environment
				18	Diet evaluation
				19	Food management

Disci	Discipline: Science education/Educational technology							
Item Number	Research Field			Screening Sub-panel Number / Keyword				
		1	1	Higher education(Mathematics, Physics, Chemistry, Biology, Information science, Astronomy, Earth and planetary science, Interdisciplinary science)				
			2	Elementary and secondary education(Arithmetic · Mathematics, Natural science, Information science)				
4004	Science		3	Engineering education				
1801	education		4	Science literacy				
			5	Experiment/Observation				
		2	6	Science education curriculum				
			7	Environmental education				
			8	Industrial technology education				
			9	Science and sociocultural aspect				
			10	Science teacher training				
				Science communication				
			12	Information literacy				
		1	1	Curriculum/Pedagogy development				
			2	Teaching-learning support systems				
			3	Distributed collaborative learning system				
			4	Human interface				
				Instructional materials information system				
	Educational			Utilization of media				
1802	technology		_	Distance education				
	teemiology	2	8	E-learning				
			9	Information-related education				
			10	Media education				
				Learning environment				
			12	Teacher's education				
			13	Classroom instruction				

Discipline: Sociology/History of science and technology

DISC	pine. Bociology/Instory of science and technology					
Item Number	Research Field	Screening Sub-panel Number / Keyword				
			1	Sociology of science		
	Sociology/		2	History of science		
	History of 1901 science		3	History of technology		
1901			4	Medical history		
	and		5	Industrial archaeology		
	technology		6	Philosophy of science/Theory of science		
			7	Science, technology and society		

Discipline: Cultural assets study and museology

DISC	Discipline. Cultural assets study and museology							
Item Number	Research Field			Screening Sub-panel Number / Keyword				
			1	Dating methods				
			2	Material analysis				
			3	Production techniques				
			4	Conservation science				
		A	5	Archaeological prospection				
			6	Plant and animal residues/Human remains				
	G 1. 1		7	Cultural property/Cultural heritage				
	Cultural		8	Cultural resources				
2001	assets study and		9	Cultural property policy				
	museology	В	10	Museum Informatics				
	inuseology		11	Museum Education, Museum Pedagogy				
			12	Museum Information Systems, Museum				
			12	Informatics				
		ь	13	Museum Business Management				
			14	Public Finance and Administration of Museums				
			15	Museum Material Resources				
			16	History of Museology				
			16	History of Museology				

Discipline: Geography

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Geography in general
		2	Land use/Landscape
		3	Environmental system
		4	Regional planning
		5	Cartography/Regional geography/Geography
		3	education
2101	2101 Geography	6	Geomorphology
		7	Climatology
		8	Hydrology
		9	Geographic information system
		10	Remote sensing
		11	Vegetation/Soil
		12	Tourism

Discipline: Social/Safety system science

Item Number	Research Field			Screening Sub-panel Number / Keyword
		A	[So	cial systems engineering]
			1	Social engineering
			2	Social system
			3	Policy science
			4	Development planning
			5	Management engineering
			6	Management system
			7	Operations research
			8	Quality control
			9	Industrial engineering
			10	Modeling
			11	Logistics
			12	Marketing
	Social		13	Finance
	systems		14	Project management
2201	engineering/		15	Environmental management
	Safety system	В	[Sa	fety system]
	Burety system		16	Safety engineering
			17	Safety concerning products, facilities, systems
				Safety risk management
			19	Crisis management
				Fire and explosion prevention and protection
			21	Safety information
				Social technology for security (evacuation,
			22	mass guidance, information distribution, hazard
				map)
			23	Risk-based engineering
			24	Engineering diagnosis, regeneration,
				maintenance management
				Reliability of machinery and human
			26	Occupational safety and health

(	0 110 0			1
(Discipline:	Social/Safety	system	science	)

Item Number	Research Field	Screening Sub-panel Number / Keyword					
		Α	[Ea	rthquake and volcano disaster mitigation]			
			1	Seismic motion			
			2	Liquefaction			
			3	Active fault			
			4	Tsunami			
			5	Volcanic eruption			
			6	Volcanic ejecta/Debris flow			
			7	Seismic hazard			
			8	Volcanic hazard			
	Natural		9	Damage prediction/Analysis/Mitigation			
	disaster /		9	measures			
2202	Disaster		10	Disaster mitigation and buildings			
2202	prevention	В	[Na	ntural disasters]			
	science		11	Meteorological disasters			
	sciciec		12	Hydrological disasters			
			13	Geo-hazard			
			14	Landslide			
			15	Drought			
			16	Snow and ice disasters			
			17	Natural disaster prediction/Analysis/Measures			
			18	Lifeline disaster prevention			
			19	Local disaster preparedness plan and policy			
			20	Rehabilitation and reconstruction engineering			
			21	Disaster risk assessment			

Discipline: Biomedical engineering

Item Number	Research Field			Screening Sub-panel Number / Keyword
		A	[Bio	omedical engineering]
			1	Medical imaging, Bioimaging
			2	Biological modeling, physiome
			3	Biological simulation
			4	Bioinformation and instrumentation
			5	Artificial Organs
			6	Engineering for regenerative medicine
			-	Biological properties
			8	Biomedical control and therapy
			-	Biomechanics
	Biomedical		10	Cell biomechanics
			11	Nano-Bio Systems
	engineering/			Biomedical Ultrasound
2301	Biomaterial			Physiologically active substances application
	science and			Bio-inspired system
	engineering	В		omaterial science and engineering]
				Biomaterials
			16	Biofunctional materials
			17	Cell and Tissue engineering Materials
				Biocompatible materials/Biosuitable materials
			-	Nano-biomaterials
				Materials for regenerative medicine and
				engineering
			21	Drug delivery system
				Stimuli-responsive materials
				Materials for genetic and nucleic acid
			1 23 1	engineering
			-	Medical Ultrasound System
				Medical imaging system
			-	Laboratory examination system
				Minimally invasive treatment system
2302	Medical			Remote diagnosis and treatment system
	systems		-	Organ preservation and treatment system
				Medical information system
			-	Computational surgery
			-	Medical robotics
				Regulartory Science
	Medical			Safety validation
2303	engineering		-	Clinical studies
	assessment		4	Biomedical engineering ethics
			-	Medical devices

(Discipline: Biomedical engineering)

Item	Research Field	Screening Sub-panel Number / Keyword						
Number	Research Fleid			m.	<u> </u>			
		Α	_	[Ke	chabilitation science]			
				1	Rehabilitation medicine			
				2	Disability science			
				3	Physical therapy			
			1	4	Occupational therapy science			
				5	Speech language and hearing therapy			
				6	Social welfare and health science			
				7	Artificial sensory organs			
				8	Gerontology			
	Rehabilitation		2	9	Clinical psychotherapy			
2304	science/	В		[W	elfare engineering]			
2304	Welfare			10	Engineering for health and welfare			
	engineering		ļ	11	Technology for activities of daily living			
				12	Preventive care/Assistive technology			
				13	Normalization			
ı				14	Barrier-free system			
					Universal design			
					Robotics for welfare and nursing care			
ı			-		Technology for substituting biological function			
ı					Technical aid			
ı				19	Human interface			
ı				20	Nursing engineering			

Item Number	Research Field				Screening Sub-panel Number / Keyword
		Α		[De	velopmental mechanisms and the body works]
				1	Educational physiology
				2	Physical systems science
				3	Biological information analysis
				4	Higher brain function science
				5	Physical growth developmental science
				6	Sensory and motor development studies
		В		[M	ental and physical education and culture]
				7	Aesthetic education
				8	Physical environment theory
	Developmental			9	Kinetic theory of leadership
2401	mechanisms				Pedagogy of physical education
2.01	and the body			_	Fitness
	works			12	Cultural theories of physical movement
					Philosophy of the body
				_	Life and death education
					Psychology of physical education
					Affective science
				_	Outdoor education
				_	Dance education
					Gender education
					Adult life stage elderly gymnastics
					Martial arts theory
		L		_	Motion adaptation life science
		A			orts science]
				1	Sports philosophy
				2	Sports history
			١.	3	Sports psychology
			1	4	Sports science management
				5	Sports pedagogy
				6	Training science
			H	7	Sports biomechanics
				8	Coaching
	Sports			9	Sports talent
2402	Sports science		2	_	Sports for the disabled
	SCIENCE				Sports sociology
				_	Sports environment
		В	Ц		Cultural anthropology of sport
		D		_	edical and sport sciences]  Sports physiology
					Sports biochemistry
					Sports nutrition
					Energy metabolism
					Training medical science
					Sports disorders
				_	Doping

(Discipline: Health/Sports science)

Item Number	Research Field				Screening Sub-panel Number / Keyword			
		Α		[He	alth education/Health promotion activities]			
			П	1	Health education			
				2	Health promotion			
				3	Safety propulsion/Safety education			
			1	4	Pedagogy of health education			
				5	Stress management			
				6	Smoking/Drug abuse prevention education			
				7	School health			
				8	AIDS and sex education			
2403	Applied	;	2	9	Health management			
2403	health science			10	Health information			
				11	Nutritional guidance			
				12	Physical and mental health			
				13	Leisure/Recreation			
		В	plied medical health]					
					Lifestyle diseases			
					Exercise prescription and exercise therapy			
					Aging			
				_	Sports medicine			
				18	Sports immunology			

Discipline: Childhood science

Item Number	Research Field		Screening Sub-panel Number / Keyword				
		1	Health/Growth				
		2	Development/Child care				
	Childhood	3	Exercise/Play				
	science	4	Human rights/Right				
2451	(childhood	5	Misconduct/Deviation				
	environment	6	Social environment				
	science)	7	Cultural environment				
		8	Physical environment				
		9	Educational environment				

Discipline: Biomolecular science

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Natural product chemistry
		2	Secondary metabolite
		3	Searching bioactive molecules
		4	Chemical modification of biomolecules
	Biomolecular	5	Biological function related substance
2501	chemistry	6	Molecular mechanism of activity expression
	chemistry	7	Biosynthesis
		8	Design and synthesis of bioactive molecule
		9	Combinatorial chemistry
		10	Chemical ecology
		11	Metabolome
		1	In vivo functional expression
		2	Searching medicines
		3	Searching diagnosis chemicals
		4	Searching agricultural chemicals
		5	Chemical library
	Chemical	6	Structure-activity relationship
2502	biology	7	Chemical probes
	biology	8	Molecular imaging
		9	Biomolecule measurements
		10	Intracellular chemical reactions
		11	Molecular targeting drugs
		12	Proteomics
		13	Directed evolution

Disc	Discipline: Brain sciences							
Item Number	Research Field			Screening Sub-panel Number / Keyword				
			1	Genome brain science				
			2	Epigenetics				
			3	Brain molecule profiling				
			4	Nano brain science				
			5	Chemical biology				
			6	Medicinal brain science				
			7	Brain function probe				
			8	Brain imaging				
		Α	9	Luminary brain science				
			10	Neuron glial cross-interaction				
			11	Brain function model animals				
			12	Brain function behavioral analysis				
2601	Basic / Social		13	Brain and rhythm				
2601	brain science		_	Sleep				
				Neuropsychology/Linguistic science				
				Neurological scinece				
				Science of Dementia				
			18	Communication				
			19	Human interaction				
			20	Social behavior				
			21	Development and education				
		В		Sensibility, affectivity and emotion				
			23	Values, reward and punishment				
				Motivation				
			25	Neuroeconomics and neuromarketing				
			_	Political brain science				
			1	Brain morphology measurement				
			2	Functional /Non-invasive biometry				
			2	(measurement)				
			3	Real time brain blood flow measurement				
			4	Brain recordings				
	Brain		5	Brain information reading (Decoding)				
2602	biometrics		6	Sensory information				
	biometrics		7	Kinetic (motor) information				
			8	Cognitive information				
				Higher brain function measurement				
			10	Brain information processing				
			11	Brain function operation				
			12	Brain machine interface				

# Category: Humanities and Social Sciences

### Area: Humanities/Social sciences

#### Discipline: Area studies

Item	D Fill					
Number	Research Field	Screening Sub-panel Number / Keyword				
		1 Europe				
		2 Russia/Slavic area				
		3 North America				
		4 Central and South America				
		5 East Asia				
	2701 Area studies	6 Southeast Asia				
2701		7 South Asia				
		8 West Asia/Central Asia				
		9 Africa				
		10 Oceania				
		11 Global studies				
		12 Cross-regional comparative studies				
		13 Aid/Regional cooperation				

#### Discipline: Gender

Disc	pilile. Genuei	
Item Number	Research Field	Screening Sub-panel Number / Keyword
		1 Gender differences/Gender roles
		2 Sexuality
		3 Social thought/Social movements/History
		4 Law/Politics
		5 Economy/Labor
		6 Social policy/Social welfare
		7 Body/Expression/Media
2001	01 Gender	8 Science and technology/Medicine/Life Science
2801		9 Education/Human development
		10 Development
		11 Violence/Prostitution
		12 Cross-cultural comparison
		13 Women's studies/Men's studies/Queer studies
		14 Career
		15 Gender equality
		16 Comparative analysis among nations

#### **Discipline: Tourism Studies**

Item Number	Research Field	Screening Sub-panel Number / Keyword		
		1 Tourism Theory		
		2 Tourism Resources		
		3 Tourism Policy		
		4 Tourist Industry		
	Tourism	5 Regional Development		
2851	Studies Studies	6 Town Planning		
		7 Tourists		
		8 Resorts		
		9 Landscape		
		10 World Heritage Sites		
		11 Festivals and Events		

### **Area: Humanities**

### Discipline: Philosophy

Item Number	Research Field	Г		Screening Sub-panel Number / Keyword
			1	Principles of philosophy/Specific theories of philosophy
			2	Principles of ethics/Specific theories of ethics
2901	Philosophy/		3	Western philosophy
2901	Ethics		4	Western ethics
			5	Japanese philosophy
			6	Japanese ethics
			7	Comparative philosophy
	Chinese		1	Chinese philosophy/Thought
	philosophy/	1	2	Chinese Buddhism
2902	Indian	1	3	Taoism
2902	philosophy/		4	Confucianism
	Buddhist studies	2	5	Indian philosophy/Thought
			6	Buddhist studies/History of Buddhism
			1	Religious studies in general
	Religious		2	History of religions
2903	studies		3	Sociology of religion
	studies		4	Philosophy of religion
		Ц	5	Comparative study of religion
			1	History of Western thought
			2	History of Eastern and Japanese thought
			3	Comparative history of thought
2904	History of		4	History of religious thought
2501	thought		5	History of social thought
			6	History of political thought
			7	History of scientific thought
			8	History of art theory

### Discipline: Art studies

	Disci	ipline: Art stud	ies					
	Item Number	Research Field		Screening Sub-panel Number / Keyword				
		A .1 .:	1	Aethetics				
	2001	Aesthetics	2	Philosophy and theory of art				
	and studies on art	3	Musicology and music history					
		on art	4	Miscellaneous art studies				
			1	Japanese and Eastern art history				
	Fine art		2	Western art history				
		3	Comparative art history					
	3002	history	4	Iconology and religious art history				
			5	Architecture history				
			6	Aethetics Philosophy and theory of art Musicology and music history Miscellaneous art studies Japanese and Eastern art history Western art history Comparative art history Iconology and religious art history Architecture history History of design, product design and clothing Cultural representation studies Pop culture Film studies Performing arts Policy, arts management and creative industrie Art practice, and musical and other performance				
			1	Cultural representation studies				
			2	Pop culture				
			3	Film studies				
	3003	Art at large	4	Performing arts				
			5	Policy, arts management and creative industries				
			6	Comparative art history conology and religious art history Architecture history History of design, product design and clothing Cultural representation studies Pop culture Film studies Performing arts Policy, arts management and creative industries Art practice, and musical and other performance				
			7	Media arts				

## Discipline: Literature

Disc	Discipline: Literature							
Item Number	Research Field			Screening Sub-panel Number / Keyword				
			1	Japanese literature in general				
			2	Ancient literature (Nara and Heian periods)				
		1	3	Medieval literature (Kamakura and Muromachi periods)				
3101	Japanese		4	Kanbungaku (Chinese literature in Japan)				
3101	literature		5	Bibliography and philology				
			6	Premodern literature (Edo period)				
		2	7	Modern and contemporary literature (after Meiji Restoration)				
			8	Literary theory, criticism, and comparative literature				

(Discipline: Literature)

Item Number	Research Field	Screening Sub-panel Number / Keyword						
		1	1	English literature				
		1	2	Comparative literature				
3102	Literature in		3	American literature				
3102	English	2	4	Other literatures in English				
		_	5	Literary theory, criticism, bibliography and philology				
			1	French and Francophone literature				
			2	Western classics				
		1	3	Literary theory, criticism, bibliography and				
3103	European		3	philology				
3103	literature		4	Comparative literature				
			5	German literature				
		2	6	Russian and East European literature				
			7	Other European literature				
			1	Chinese literature				
3104	Chinese		2	Bibliography and philology				
3101	literature		3	Literary theory and criticism				
		L	4	Comparative literature				
	Literature in		1	Literary theory and criticism				
3105	general		2	Comparative literature				
	general		3	Literature in other languages and areas				

Discipline: Linguistics

Item	ipline: Linguis					
Number	Research Field	L		Screening Sub-panel Number / Keyword		
			1	Phonetics		
			2	C7		
			3	Morphology		
			4	Syntax		
		1	5	Semantics		
			6	Pragmatics		
			7	Discourse analysis		
			8	Scripts and orthography		
			9	Lexicography		
2201	Linguistics		10	Sociolinguistics		
3201	Linguistics		11	Psycholinguistics		
			12	Biolinguistics		
			13	Historical linguistics		
			14	French linguistics		
		2	15	German linguistics		
			16	Chinese linguistics		
			17	Other languages		
			18	Endangered and minority languages		
			19	Neurolinguistics		
			20	Corpus linguistics		
	Japanese linguistics		1	Phonetics/Phonology		
			2	Grammar		
			3	Morphology, Semantics		
			4	Writing systems		
3202			5	Stylistics		
			6	Dialect		
			7	Language in daily life		
			8	History of the Japanese language		
			9	History of Japanese linguistics		
		Ī	1	Phonetics/Phonology		
			2	Grammar		
			3	Morphology, Semantics		
3203	English		4	Stylistics		
	linguistics		5	History of the English language		
			6	History of English linguistics		
			7	Diversity of the English language		
		Ц	<u>'</u>	Diversity of the English language		

(Discipline: Linguistics)

Number R	Research Field			
	Kesearch Fleid	_		Screening Sub-panel Number / Keyword
			1	Systems of Japanese language education/
			•	Language policy
			2	Theories on qualified teachers/Classroom
				research
			3	Teaching methods/Curriculum planning
l <sub>10</sub>	panese		4	Theory of second language acquisition
3204 lai	1		5	Educational technology/Teaching
	ducation		5	materials/Educational media in general
	rucution		6	Mother tongue retention/Bilingual education
			7	Cross-cultural understanding and intercultural
			,	communication
	Foreign		8	Japanese affairs
			9	History of Japanese language education
			10	Educational testing and evaluation
		1	1	Teaching methods/Curriculum planning
			2	Educational technology/Teaching
		2	1	materials/Educational media in general
			3	e-Learning/Computer-assisted language learning
			4	Theory of second language acquisition
E		3	5	Intercultural communication, translation and
3205 lai			۲	interpretation
	lucation		6	Early foreign language education
Cu	lucation		7	Foreign language education and language
			,	policies
		4	8	Theory and history of foreign language
			0	education
			9	Educational testing and evaluation
			10	Training foreign language teachers

**Discipline: History** 

Item	Research Field	Π		Screening Sub-panel Number / Keyword
Number	rescurent reid		1	World history
			2	History of cultural and diplomatic exchange
			3	
	Historical			Comparative history
3301	studies in		4	Comparative study of civilizations
	general		5	Globalization
			6	Environmental history
			7	History of islands and oceans
		L	8	Research in historical materials
	Japanese history		1	Ancient history (Nara and Heian periods)
			2	Medieval history (Kamakura and Muromachi
		1		periods)
			3	Cultural history
			4	Religious history
			5	Rural history
			6	Japanese history in general
3302			7	History of cultural and diplomatic exchange
3302			8	Research in historical materials
	-		9	Early modern history (Edo period)
				Modern and contemporary history (after the
			10	Meiji Restoration)
		2	11	Local history
				Environmental history
				History of disasters
			14	Urban history

(Dis	cipline: History	7)	
Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Chinese history (Ancient, medieval, and early modern periods)
		2	Chinese history (Modern and contemporary periods)
		3	East Asian history
		4	Southeast Asian history
	History of	5	Oceanian history
3303	Asia and	6	South Asian history
	Africa	7	West Asian/Islamic history
		8	Central Eurasian history
		9	African history
		10	Comparative history/History of cultural and diplomatic exchange
		11	1
		1	Ancient European history
		2	Medieval European history
		3	Modern and contemporary West European history
		4	Modern and contemporary East European history
2204	History of	5	Modern and contemporary South European history
3304	Europe and America	6	Modern and contemporary North European history
		7	North and South American history
		8	Comparative history/History of cultural and diplomatic exchange
		9	Research in historical materials
		1	Archaeology in general
2205		2	Prehistoric studies
		3	Historical archaeology
		4	Japanese archaeology
	A 1 1	5	Asian archaeology
3303	Archaeology	6	Study of ancient civilizations
		7	Study of material culture
		8	Experimental archaeology
		9	Research in buried cultural assets
		10	Archaeological informatics

Disc	ipline: Human	ı ge	eog	raphy
Item Number	Research Field			Screening Sub-panel Number / Keyword
			1	History of geography/Methodology
			2	Economic geography/Transportation geography
			3	Political geography/Social geography
			4	Cultural geography
	Human geography		5	Urban geography
			6	Rural geography
3401			7	Historical geography
			8	Regional environment/Natural hazards
			9	Geography education
			10	Regional planning/Regional policy
			11	Regional geography
			12	Geographic information system
			13	History of cartography

Discipline: Cultural anthropology

Item	Research Field	_		mber / Keyword	
Number	Trosouren Trosa		1	Cultural anthropology	
			2	Folklore	
			3	Ethnography	
			4	Social anthropology	
			5	Comparative folklore	
	Cultural anthropology		6	Material culture	
			7	Prehistoric period/Historic period	
3501			8	Arts/Performing arts	
3301			9	Religion/Rituals	
			10	Development/Aid	
			11	Health care	
				12	Migration/Border crossing
				13	Minority
			14	Ecology/Natural environment	
			15	Media	
			16	Body/ Sport	

### **Area: Social sciences**

Discipline: law

Research Field   Screening Sub-panel Number / Keyword	
Fundamental law  Fundam	
Fundamental law  Foreign law  Law and policy, Legislative studies  Law and economics  Constitutional law  Administrative law  Tax law  Constitutional litigation  Comparative constitutional law, EU law  Administrative organization law  Administrative procedure  Administrative remedies  International law  Public international law  Private international law  Private international law  Private international law  International conomic law  International conomic law  International conomic law  International rade law  Law of international cryol procedure  International trade law  Labor law  Economic law  Social law  Criminal law  Criminal law  Criminal law  Criminal law  Criminal procedure  Juvenile law  Criminal justice policy  Juvenile law  Law and psychology  Company law, Business corporate law	
Fundamental law  Fundamental law  5 Comparative law  6 Foreign law  7 Law and policy, Legislative studies  8 Law and economics  1 Constitutional law  2 Administrative law  3 Tax law  4 Constitutional litigation  6 Comparative constitutional law, EU law  7 Administrative organization law  8 Administrative procedure  9 Administrative procedure  9 Administrative procedure  9 Administrative procedure  9 Public international law  1 International tax law  1 Public international law  2 Private international law  1 Public international organizations  3 International human rights, Nationality law  4 Law of international organizations  5 International conomic law  6 International civil procedure  7 International trade law  1 Labor law  2 Economic law  3 Social security law  4 Education law  2 Criminal law  2 Criminal procedure  3 Criminology  4 Criminal justice policy  5 Juvenile law  6 Law and psychology  1 Civil law  2 Commercial law  3 Civil procedure  4 Company law, Business corporate law	
Social law   Social law   Social law   Social security law   Soc	
Social law   Social law   Social law   Social security law   Soc	
Taw and policy, Legislative studies   Raw and economics   Law and economics   Constitutional law   Constitutional law   Constitutional law   Constitutional law   Constitutional litigation   Comparative constitutional law, EU law   Administrative organization law   Radministrative remedies   International tax law   Public international law   Private international law   International law   International human rights, Nationality law   Law of international organizations   International economic law   International civil procedure   International trade law   Labor law   Economic law   Economic law   Economic law   Education law   Criminal law   Criminal law   Criminal law   Criminal procedure   Company law, Business corporate law   Company law, Business co	
8 Law and economics  1 Constitutional law 2 Administrative law 3 Tax law 4 Constitutional litigation 6 Comparative constitutional law, EU law 7 Administrative procedure 9 Administrative remedies 10 International law 2 Private international law 3 International law 4 Law of international organizations 5 International civil procedure 7 International civil procedure 9 International civil procedure 1 Labor law 2 Economic law 3 Social security law 4 Education law 2 Economic law 1 Criminal law 2 Eciminal law 3 Criminology 4 Criminal justice policy 5 Juvenile law 6 Law and psychology 1 Civil law 2 Commercial law 3 Civil procedure 4 Company law, Business corporate law	
Public law  Public international law  Public international law  Public international law  Private international law  International law  International human rights, Nationality law  Law of international organizations  International conomic law  International civil procedure  International trade law  Labor law  Economic law  Social security law  Economic law  Criminal justice policy  Juvenile law  Law and psychology  Commercial law  Company law, Business corporate law	
Public law  2 Administrative law 3 Tax law 4 Constitutional theory, History of constitution 5 Constitutional litigation 6 Comparative constitutional law, EU law 7 Administrative organization law 8 Administrative procedure 9 Administrative remedies 10 International tax law 1 Public international law 2 Private international law 3 International human rights, Nationality law 4 Law of international organizations 5 International conomic law 6 International civil procedure 7 International trade law 1 Labor law 2 Economic law 3 Social security law 4 Education law 2 Criminal law 2 Criminal procedure 3 Criminology 4 Criminal justice policy 5 Juvenile law 6 Law and psychology 1 Civil law 2 Commercial law 3 Civil procedure 4 Company law, Business corporate law	
3602 Public law  Administrative organization law  Administrative remedies  International tax law  Public international law  Private international law  International law  Private international law  International organizations  International conomic law  International conomic law  International civil procedure  International trade law  Labor law  Economic law  Social security law  Economic law  Criminal justice policy  Juvenile law  Law and psychology  Commercial law  Company law, Business corporate law	
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Public law   Public law   Formation   Fo	ı
Public law   6   Comparative constitutional law, EU law   7   Administrative organization law   8   Administrative procedure   9   Administrative remedies   10   International tax law   2   Private international law   2   Private international law   3   International human rights, Nationality law   4   Law of international organizations   5   International civil procedure   7   International trade law   2   Economic law   2   Economic law   2   Economic law   3   Social security law   4   Education law   4   Education law   4   Education law   2   Criminal procedure   3   Criminology   4   Criminal justice policy   5   Juvenile law   6   Law and psychology   1   Civil law   2   Commercial law   3   Civil procedure   4   Company law, Business corporate law   3   Civil procedure   4   Company law, Business corporate law   4   Company law law   4   Company la	
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Social law   Administrative procedure   9   Administrative remedies   10   International tax law   2   Private international law   2   Private international law   3   International human rights, Nationality law   4   Law of international organizations   5   International economic law   6   International civil procedure   7   International trade law   2   Economic law   3   Social security law   4   Education law   4   Education law   2   Economic law   4   Education law   4   Education law   2   Criminal procedure   3   Criminology   4   Criminal justice policy   5   Juvenile law   6   Law and psychology   1   Civil law   2   Commercial law   3   Civil procedure   4   Company law, Business corporate law   3   Civil procedure   4   Company law, Business corporate law   4   C	
1 Public international law 2 Private international law 3 International law 4 Law of international organizations 5 International economic law 6 International civil procedure 7 International trade law 2 Economic law 3 Social security law 4 Education law 4 Education law 5 Criminal law 6 International procedure 7 International trade law 1 Criminal law 2 Economic law 3 Social security law 4 Education law 5 Criminal law 6 Criminal law 7 Criminal law 9 Administrative remedies 1 Public international law 1 Law of international law 1 Law of international organizations 1 International deconomic law 2 Economic law 3 Social security law 4 Education law 6 Criminal law 7 Criminal law 8 Criminal procedure 9 Juvenile law 9 Civil law 9 Commercial law 9 Commercial law 9 Commercial law 9 Civil procedure 9 Company law, Business corporate law	
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International law  International organizations  International economic law  International civil procedure  International trade law  International economic law  International conomic law  International conomic law  International economic law  International econ	-
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6   International civil procedure   7   International trade law     1   Labor law   2   Economic law   3   Social security law   4   Education law   2   Criminal law   2   Criminal procedure   3   Criminology   4   Criminal justice policy   5   Juvenile law   6   Law and psychology   1   Civil law   2   Commercial law   2   Commercial law   3   Civil procedure   3   Civil procedure   4   Company law, Business corporate law   3   Company l	-
7   International trade law	=
1   Labor law   2   Economic law   3   Social security law   4   Education law   2   Criminal law   2   Criminal law   2   Criminal law   2   Criminal procedure   3   Criminal justice policy   5   Juvenile law   6   Law and psychology   1   Civil law   2   Commercial law   3   Civil procedure   4   Company law, Business corporate law   3   Company law   3   Company law   3   Company law   3   Company la	-
2   Economic law   3   Social security law   4   Education law   1   Criminal law   2   Criminal procedure   3   Criminal justice policy   5   Juvenile law   6   Law and psychology   1   Civil law   2   Commercial law   2   Commercial law   3   Civil procedure   4   Company law, Business corporate law   3   Company law, Business corporate law	$\dashv$
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4   Education law   1   Criminal law   2   Criminal procedure   3   Criminal justice policy   4   Criminal justice policy   5   Juvenile law   6   Law and psychology   1   Civil law   2   Commercial law   3   Civil procedure   4   Company law, Business corporate law   4   Company law, Business corporate law   Company law, Business c	-
1   Criminal law   2   Criminal procedure   3   Criminal procedure   3   Criminal justice policy   4   Criminal justice policy   5   Juvenile law   6   Law and psychology   1   Civil law   2   Commercial law   3   Civil procedure   4   Company law, Business corporate law   1   Criminal law   2   Company law, Business corporate law   2   Criminal procedure   3   Criminal law   2   Criminal procedure   3   Criminal procedure   3   Criminal procedure   4   Criminal procedure   4   Criminal procedure   4   Criminal procedure   4   Criminal law   2   Criminal procedure   4   Criminal proc	$\dashv$
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2 Commercial law 3 Civil procedure 4 Company law, Business corporate law	=
Civil procedure     Company law, Business corporate law	
4 Company law, Business corporate law	
lou 14 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
3606 Civil law 6 Securities law	
7 Insurance law	
8 Insolvency law	
9 Alternative dispute resolution	
10 Civil execution law	
1 Environmental law	
2 Medical law	
3 Information law, Media law	$\exists$
4 Intellectual property law	
5 Law and gender	$\Box$
New fields of Law and education, Legal profession, Legal	$\Box$
law teaching	
7 Legal person, Trusts	
8 Consumer law	
9 Traffic law	
10 Land law, Housing law	
11 Judicial system	

**Discipline: Politics** 

Item Number	Research Field	el Nu	ımber / Keyword
		1	Political theory
		2	Political methodology
		3	History of Western political thought
		4	History of Japanese and East Asian political
		4	thought
		5	Political history
		6	Japanese political history
2701	Politics	7	Japanese politics
3701	Folities	8	Political process
		9	Electoral studies
		10	New institutionalism
		11	Political economy
		12	Public administration
		13	Local government
		14	Comparative politics
		15	Public policy
		1	Theory of international relations
		2	Diplomatic history/International history
		3	Foreign policy
		4	International security
		5	Non-traditional security/ Human security
		6	International political economy
3702	International	7	International regime
3702	relations	8	International integration
		9	international cooperation
		_	International communication
		$\vdash$	Transnational relations
		_	Global issues
		_	International relations of East Asia
		14	International development cooperation

Discipline: Economics

Research Field   Screening Sub-panel Number / Keyword	Disc	ipline: Econom	ics	
Economic theory  Economic theory  Economic theory  Economic theory  Economic doctrine/ Economic thought  Economic Philosophy  I Statistical system  Statistical research  Population statistics  Income/Wealth distribution  National accounts  Economic thought  I Statistical system  International economics		Research Field		Screening Sub-panel Number / Keyword
Economic theory  Economic theory  5 Behavioral Economics 6 Experimental Economics 7 Evolutionary Economics 8 Economic Institutions and Systems  Economic doctrine/ Economic thought  1 Economic thought 2 Economic thought 3 Social thought 4 Economic Philosophy  1 Statistical system 2 Statistical research 3 Population statistics 4 Income/Wealth distribution 5 National accounts 6 Econometrics 7 Financial Econometrics 1 International economics 2 Industrial organization 3 Economic development 4 Economic policy 5 Urban economics 6 Transportation economics 7 Regional economics			1	Microeconomics
Economic theory  5 Behavioral Economics 6 Experimental Economics 7 Evolutionary Economics 8 Economic Institutions and Systems 1 Economic doctrine 2 Economic thought 3 Social thought 4 Economic Philosophy 1 Statistical system 2 Statistical research 3 Population statistics 4 Income/Wealth distribution 5 National accounts 6 Econometrics 7 Financial Economics 2 Industrial organization 3 Economic development 4 Economic policy 5 Urban economics 6 Transportation economics 7 Regional economics			2	Macroeconomics
theory    Separate   Economics			3	Economic theory
theory    5   Behavioral Economics	2901	Economic	4	
Total Production   Fernancial Production	3601	theory	5	Behavioral Economics
Economic doctrine/ Beconomic doctrine/ Economic doctrine/ Economic thought  Beconomic thought  Beconomic thought  Beconomic Philosophy  1 Statistical system  2 Statistical research  3 Population statistics  Income/Wealth distribution  5 National accounts  6 Econometrics  7 Financial Economics  2 Industrial organization  3 Economic development  4 Economic policy  5 Urban economics  6 Transportation economics  7 Regional economics			6	Experimental Economics
Economic doctrine/ Economic thought  3 Social thought  4 Economic Philosophy  1 Statistical system  2 Statistical research  3 Population statistics  4 Income/Wealth distribution  5 National accounts  6 Econometrics  7 Financial Economics  1 International economics  2 Industrial organization  3 Economic development  4 Economic policy  5 Urban economics  6 Transportation economics  7 Regional economics			7	Evolutionary Economics
3802 Economic thought  Economic thought  2 Economic thought  4 Economic Philosophy  1 Statistical system  2 Statistical research  3 Population statistics  4 Income/Wealth distribution  5 National accounts  6 Econometrics  7 Financial Econometrics  1 International economics  2 Industrial organization  3 Economic development  4 Economic policy  5 Urban economics  6 Transportation economics  7 Regional economics			8	Economic Institutions and Systems
thought  4 Economic Philosophy  1 Statistical system 2 Statistical research 3 Population statistics 4 Income/Wealth distribution 5 National accounts 6 Econometrics 7 Financial Econometrics 1 International economics 2 Industrial organization 3 Economic development 4 Economic policy 5 Urban economics 6 Transportation economics 7 Regional economics		Economic	1	Economic doctrine
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3803 Economic statistics  Economic statistics  Economic statistics  Economic statistics  1 Income/Wealth distribution  5 National accounts  6 Econometrics  7 Financial Econometrics  1 International economics  2 Industrial organization  3 Economic development  4 Economic policy  5 Urban economics  6 Transportation economics  7 Regional economics	3602	Economic Economic	3	Social thought
Economic statistics  Economic statistics  Economic statistics  Economic statistics  2 Statistical research 3 Population statistics 4 Income/Wealth distribution 5 National accounts 6 Econometrics 7 Financial Econometrics 1 International economics 2 Industrial organization 3 Economic development 4 Economic policy 5 Urban economics 6 Transportation economics 7 Regional economics		thought	4	Economic Philosophy
Economic statistics    Seconomic statistics   4   Income/Wealth distribution   5   National accounts   6   Econometrics   7   Financial Econometrics   1   International economics   2   Industrial organization   3   Economic development   4   Economic policy   5   Urban economics   6   Transportation economics   7   Regional economics   7   Regi			1	Statistical system
3803 Economic statistics  4 Income/Wealth distribution 5 National accounts 6 Econometrics 7 Financial Econometrics 1 International economics 2 Industrial organization 3 Economic development 4 Economic policy 5 Urban economics 6 Transportation economics 7 Regional economics			2	Statistical research
statistics  4 Income/Wealth distribution  5 National accounts  6 Econometrics  7 Financial Econometrics  1 International economics  2 Industrial organization  3 Economic development  4 Economic policy  5 Urban economics  6 Transportation economics  7 Regional economics			3	Population statistics
5 National accounts 6 Econometrics 7 Financial Econometrics 1 International economics 2 Industrial organization 3 Economic development 4 Economic policy 5 Urban economics 6 Transportation economics 7 Regional economics	3803		4	Income/Wealth distribution
7 Financial Econometrics  1 International economics  2 Industrial organization  3 Economic development  4 Economic policy  5 Urban economics  6 Transportation economics  7 Regional economics			5	National accounts
1 International economics 2 Industrial organization 3 Economic development 4 Economic policy 5 Urban economics 6 Transportation economics 7 Regional economics			6	Econometrics
2 Industrial organization 3 Economic development 4 Economic policy 5 Urban economics 6 Transportation economics 7 Regional economics			7	Financial Econometrics
3 Economic development 4 Economic policy 5 Urban economics 6 Transportation economics 7 Regional economics			1	International economics
3804 Economic policy  Economic policy  4 Economic policy  5 Urban economics  6 Transportation economics  7 Regional economics			2	Industrial organization
Economic policy  5 Urban economics 6 Transportation economics 7 Regional economics			3	Economic development
3804 Economic policy 6 Transportation economics 7 Regional economics			4	Economic policy
7 Regional economics		Economic	5	Urban economics
7 Regional economics	3804	nolicy	6	Transportation economics
8 Environmental economics		policy	7	Regional economics
			8	Environmental economics
9 Resource economics			9	Resource economics
10 Japanese economy			10	Japanese economy
11 Economic affairs			11	Economic affairs

(Discipline: Economics)

Item Number	Research Field	Screening Sub-panel Number / Keyword		
		1	Public finance	
		2	Local government finance	
		3	Public economics	
	Public	4	Public policy	
3805	finance/	5	Health economics	
3603	Public	6	Labor economics	
	economy	7	Social security	
		8	Education economics	
		9	Law and economics	
		10	Political economics	
	Money/ Finance	1	Monetary economics	
		2	Finance	
3806		3	International finance	
3800		4	Corporate finance	
		5	Insurance	
		6	Financial engineering	
	Economic	1	Economic history	
3807		2	Business history	
	history	3	Industrial history	

Discipline: Management

Item Number	Research Field			Screening Sub-panel Number / Keyword
			1	Organizational management
			2	Managerial finance
		1	3	Management information
		1	4	Business administration
			5	Corporate social responsibility
3901	Management		6	Management theory
			7	Corporate strategy
			8	International management
		2	9	Management of technology
			10	Business ventures
			11	Human resource management
	Commerce		1	Marketing
			2	Consumer behavior
			3	Advertising
3902			4	Distribution and logistics
			5	Marketing research
			6	Commerce
			7	Insurance
			1	Financial accounting
			2	Managerial accounting
	Accounting		3	Auditing
3903			4	Bookkeeping
3703			5	International accounting
			6	Tax accounting
			7	Governmental accounting
			8	Environmental accounting

Discipline: Sociology

	pline: Sociolo	gy	7	
Item Number	Research Field	L		Screening Sub-panel Number / Keyword
			1	Social philosophy/Social thought
			2	History of sociology
			3	Sociological Theory / Sociological Methodology
			4	Social System
			5	Social research
		1	6	Mathematical sociology
			7	Social interaction/Social relations
			8	Social group/Social organization
			9	Institutions/Structure/Social change
			10	Knowledge/Science/Technology
			11	Politics/Power/State
				Class/Social status group /Social mobility
				Family/Kinship/Population
4001	Sociology		14	Community/Village/City
			15	Industry/Labor
			16	Sociology of welfare
			17	Culture/Religion/Social consciousness
			18	Communication/Information/Media
			19	Gender
		2	20	Education/School
			21	Medical sociology /Disability studies
				Social problems/Social movements
			23	Discrimination/Social exclusion
			24	Environment/Pollution
				International community/Ethnicity
				Body/Sports
		Ц	27	Self/Identity
			1	Principles of social welfare/philosophy of
				social welfare
			2	Social welfare history
			3	Social security / Social welfare policy
			4	Welfare state/ Welfare society
			5	Social work
				Poverty/ Public assistance
			7	Child welfare
			8	Women's welfare/ Feminist social work
	Social		9	Social policy and social work with people with disabilites
4002	welfare and social work		10	Social policy and social work with the elderly
	studies		11	Social work with families
	Stadios		12	Community work/ community
			14	services/community development
			13	Social work in mental health /social work in health care/ care work
			14	Forensic social work/ social work in juvenile delinquency and criminal justice
			15	Management in social work / Advocacy/evaluation
				International social work / NGOs in social welfare
			17	Volunteerism / NPOs in social welfare
			18	Social work education/ Field education
		ш	10	Docial Work education/ Field education

**Discipline: Psychology** 

Item	Research Field						
Number	rescuren Field	1	Self-processes				
		2	Social cognition/Emotion				
		3	Attitude/Belief				
		4					
		-	Social interaction/Interpersonal relations				
		5	Interpersonal communication				
4101	Social	6	Group/Leadership				
4101	psychology	7	Collective behavior/Social phenomena				
		8	Industry/Organization/Personnel				
		9	Culture				
		_	Social issues				
		11	Environment/Environmental problems				
		12					
		13	Consumer behavior				
		1	Development				
		2	Parent-child relationship				
		3	Developmental disorder				
		4	Personality				
4102	Educational	5	Teaching Method/Learning				
4102	psychology	6	Educational assessment/evaluation				
		7	Educational counseling				
		8	Interpersonal relations/ behavior				
		9	Self-process				
		10	School, Class, Teacher				
		1	Psychological disorder				
		2	Crime/Delinquency				
		3	Psychological assessment				
		4	Psychotherapy				
		5	Psychological intervention				
		6	Nonverbal communication				
4103	Clinical	7	Counseling				
	psychology	8	Psychological interviewing process				
		9	Case study				
			Self-help group				
			Therapist's theory				
			Community support Health psychology/Health development				
		14					
		1	Psycho-physiology				
		2	Sensation/Perception/Kansei				
		3	Consciousness/Cognition/Attention				
	E	4	Memory				
4104	Experimental	5	Affection/Emotion/Motivation				
	psychology	6	Thinking/Reasoning/Language				
		7	Learning/Behavior analysis				
		8	Evolution/Development/Comparative cognition				
		9	Principle/History/Methodology				

**Discipline: Education** 

Item Number	Research Field	Screening Sub-panel Number / Keyword				
			1	Philosophy of education		
			2	Educational thought		
			3	History of education		
			4	Curriculum theory		
		1	5	Instructional theory		
			6	Academic achievement theory		
			7	Educational methods		
	Education		8	Educational evaluation		
4201			9	Teacher education		
			10	Administration and finance of education		
			11	School management		
			12	School education		
		2	13	Early childhood education/Child-care		
		2	14	Lifelong learning		
			15	Adult and community education		
			16	Education at home		
			17	Education policy		

(Discipline: Education)

L	Item Number	Research Field	el		n) Number / Keyword				
				1	Sociology of education				
				2	Economics of education				
				3	Anthropology of education				
				4	Education policy				
					Comparative education				
					Human resource development/Development				
				6	education				
	4202	Sociology of		7	School system/School culture				
		education		8	Teacher/Student culture				
				9	Youth problems				
				10	Academic achievement problem				
				-	Multicultural education				
					Gender and education				
					Education survey method				
					Educational information system				
ŀ			Н		Education of individual subjects (Japanese,				
					mathematics, science, social studies,				
				1	geography/History, civics, life environmental				
					studies, music, art, home economics,				
			1		technology, English, information)				
					Education of vocational/Professional subject				
		Education on school subjects and activities		2	(industry, bussiness, agriculture, fishery,				
	4203			_	nursing, welfare)				
			H	3	Curriculum composition/development				
				4	Materials development				
					Education excluding subject (global learning)				
			2	5	moral, special activities)				
				6	Guidance				
				7	Career education				
L				8	Teacher training				
				1	Education philosophy, Thought and History				
				_					
					Education system, Policy, and Administration				
				3	Psychological clinical study and Experiment study				
				3	Psychological clinical study and Experiment study Assessment				
				3	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation				
				3	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education				
				3 4 5	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education coordinator				
				3 4 5 6 7	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education				
		Special people		3 4 5 6 7 8	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education coordinator Consultation and Counseling Family and advocacy				
	4204	Special needs		3 4 5 6 7 8 9	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education coordinator Consultation and Counseling				
	4204	Special needs education		3 4 5 6 7 8 9 10 11	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education coordinator Consultation and Counseling Family and advocacy Cohesive society and School inclusion Early detection and Early support Regular classroom and Resource room				
	4204			3 4 5 6 7 8 9 10 11 12	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education coordinator Consultation and Counseling Family and advocacy Cohesive society and School inclusion Early detection and Early support Regular classroom and Resource room Special school for Children with disabilities				
	4204			3 4 5 6 7 8 9 10 11 12 13	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education coordinator Consultation and Counseling Family and advocacy Cohesive society and School inclusion Early detection and Early support Regular classroom and Resource room Special school for Children with disabilities Higher education and Career education				
	4204			3 4 5 6 7 8 9 10 11 12 13	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education coordinator Consultation and Counseling Family and advocacy Cohesive society and School inclusion Early detection and Early support Regular classroom and Resource room Special school for Children with disabilities Higher education and Career education Developmental disabilities and Emotional disturbance				
	4204			3 4 5 6 7 8 9 10 11 12 13	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education coordinator Consultation and Counseling Family and advocacy Cohesive society and School inclusion Early detection and Early support Regular classroom and Resource room Special school for Children with disabilities Higher education and Career education Developmental disabilities and Emotional disturbance Intellectual disabilities				
	4204			3 4 5 6 7 8 9 10 11 12 13	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education coordinator Consultation and Counseling Family and advocacy Cohesive society and School inclusion Early detection and Early support Regular classroom and Resource room Special school for Children with disabilities Higher education and Career education Developmental disabilities and Emotional disturbance Intellectual disabilities Visual impairments, Deaf and Hard of hearing,				
	4204			3 4 5 6 7 8 9 10 11 12 13 14 15	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education coordinator Consultation and Counseling Family and advocacy Cohesive society and School inclusion Early detection and Early support Regular classroom and Resource room Special school for Children with disabilities Higher education and Career education Developmental disabilities and Emotional disturbance Intellectual disabilities Visual impairments, Deaf and Hard of hearing, and Speech and Language disorders				
	4204			3 4 5 6 7 8 9 10 11 12 13 14 15 16	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education coordinator Consultation and Counseling Family and advocacy Cohesive society and School inclusion Early detection and Early support Regular classroom and Resource room Special school for Children with disabilities Higher education and Career education Developmental disabilities Wisual impairments, Deaf and Hard of hearing, and Speech and Language disorders Physical disorders and Health impairments				
	4204			3 4 5 6 7 8 9 10 11 12 13 14 15	Psychological clinical study and Experiment study Assessment Instruction, Support, and Evaluation Support system and Special needs education coordinator Consultation and Counseling Family and advocacy Cohesive society and School inclusion Early detection and Early support Regular classroom and Resource room Special school for Children with disabilities Higher education and Career education Developmental disabilities and Emotional disturbance Intellectual disabilities Visual impairments, Deaf and Hard of hearing, and Speech and Language disorders				

# Category: Science and Engineering

# Area: Interdisciplinary science and engineering

Discipline: Nano/Micro science

Disci	ipline: Applied	l յ	ohy	sics
Item Number	Research Field			Scre

Disc	ipline: Nano/N	lic	ro	
Number	Research Field	Т	1	Screening Sub-panel Number / Keyword
		ŀ		Nanostructural chemistry
		ŀ	2	Creation of nanostructures
	Nanostructural	-		Clusters/Nanoparticles
4301		-		Fullerenes/Nanotubes/Graphene
	chemistry	-		Mesoscopic Chemistry
		ŀ		Hierarchical structures/Superstructures
		ŀ	7	Nanosurfaces/Nanointerfaces
		+		Self-assembly
		ŀ		Nanotubes/Graphene
		ŀ		Nanostructure properties
		ŀ		Nanoscale control physics
		ŀ		Nano/Micro physics
		F		Nanoprobes
4302	Nanostructural physics	ŀ	6	Quantum information
	physics	F	7	Quantum effects
		F		Quantum dots
		F		Quantum devices
		F		Electron devices
		ŀ		Spin devices
		+		Nanotribology Creation of nanomaterials
		F	1	
		ŀ	2	Analysis and characterization of nanomaterials Nanosurfaces/Nanointerfaces
		ŀ		
		ŀ		Functional nanomaterials
		F		Formation/Control of nanostructures
4303	Nanomaterials chemistry	ŀ		Molecular components
		ŀ		Nanoparticles Fullerenes/Nanotubes/Graphene
		F		Carbon nanomaterials
		F		Single-molecule chemistry
		ŀ		Nano-optical devices
		F		Molecular devices
		+	1	Nano crystalline materials/Composites
		F		Nano particles/Wires/Sheets
		ŀ		Nano dots/Layers
		ŀ		Nano defect control
	Nanomaterials	ŀ		Hetero/Homo structures
4304	engineering	ŀ		Nano materials /Fabrication process
		H		Nano shaping/Forming process
		H		Nano carbon applications
		ŀ		Nano and micro structural analysis
			9	/Evaluation/Testing
		1	1	DNA devices
		f	2	Nanosynthesis
		F		Molecular manipulation
		t	4	Biochips
4305	Nanobioscience	f	5	Single-molecule biochemistry and physiology
		t	6	Single-molecule bioinformation science
		t	7	Single-molecule science
		t	8	Single-molecule imaging/Nanometrology
		ľ	9	Genomic engineering
		†	1	MEMS · NEMS
		t	2	Nano/Microfabrication
	NT /	ľ	3	Nano/Micro-optical devices
4306	Nano/ Microsystems	f	4	Nano/Microchemical systems
	Microsystems	f	5	Nano/Microbiosystems
		f	6	Nano/Micromechanics
		f	7	Nano/Microsensors

Item Number	Research Field	Screening Sub-panel Number / Keyword
		1 Magnetic material
		2 Superconductor
		3 Dielectric
		4 Optical properties
	A mmli a d	5 Micro crystal
4401	Applied materials	6 Organic molecule
	materiais	7 Liquid crystal
		8 New functional materials
		9 Spintronics
		10 Organic/Molecular electronics
		11 Bioelectronics
		1 Metal
		2 Semiconductor
		3 Amorphous
		4 Crystallite
4402	Crystal	5 Ceramics
4402	engineering	6 Crystal growth
		7 Epitaxial growth
		8 Crystal characterization
		9 Heterostructure
		10 Electronic/optical functionality
		1 Ferroelectric thin film
		2 Carbon-related thin film
		3 Oxide electronics
	Thin film/	4 New functional thin film materials
	Surface and	5 Surface
4403	interfacial	6 Interface
	physical	7 Vacuum
	properties	8 Beam application
		9 Scanning probe microscopy
		10 Electron microscopy
		Optical elements/Instrumentation/Materials
		2 Quantum information processing
		3 Vision
		4 Quantum electronics
		5 Laser
	Optical	6 Nonlinear optics
4404	engineering,	7 Quantum optics
4404	Photon	8 Photonic crystals
	science	9 Opto-electronics
		10 Micro-and nano-optics
		11 Optical sensing
		12 Optical recording
		13 Optical controlling
		14 Photo-processing
		1 Plasma
		2 Plasma processing
		3 Plasma application
4405	Plasma electronics	4 Reactive plasma
	electronics	5 Plasma chemistry
		6 Plasma treatment
		7 Plasma diagnostics
احصا		1 months diagnostics

## Area: Mathematical and physical sciences

(Discipline: Applied physics)

Item Number	Research Field	Screening Sub-panel Number / Keyword				
		1 Mechanics				
		2 Thermal engineering				
		3 Sounds				
		4 Vibration				
	General	5 Electromagnetism				
4406	applied physics	6 Physical measurements and control				
	physics	7 Standards				
		8 Sensors				
		9 Energy conversion				
		10 Radiation				
		11 Accelerators				

#### Discipline: Quantum beam science

Disci	Discipline: Quantum beam science								
Item Number	Research Field		Screening Sub-panel Number / Keyword						
		1	Technology of accelerator						
		2	Diagnostics for quantum beams						
		3	Data processing and analysis						
		4	Detectors						
		5	Industrial application						
		6	Medical application						
		7	Compact quantum beam generator						
	Quantum	8	Lasers						
4501		9	X-ray						
4301	beam science	10	γ-ray						
		11	Synchrotron radiation						
		12	Neutron						
		13	Muon						
		14	Electron, Positron						
		15	Neutrino						
		16	Ion beam						
		17	Proton beam						
		18	Other quantum beam						

**Discipline: Computational science** 

Item Number	Research Field	Screening Sub-panel Number / Keyword					
			1	Mathematical engineering (mathematical analysis/planning/designing/optimization)			
			2	Computational mechanics			
	Computational science		3	Numerical simulation			
4601			4	Multi-scale modeling			
			5	Large scale simulation			
			6	Parallel Processing, 3D simulation			
			7	Numerical simulation methods			
			8	Advanced algorithms			

Discipline: Mathematics

Number	Research Field	L.		Screening Sub-panel Number / Keyword
			1	Number theory
			2	Arithmetic geometry
		1	3	Group theory (including representation theory of groups)
4701	Algebra		4	Algebraic combinatorics
4/01	Aigebra		5	Algebraic geometry
		2	6	Ring theory (including Lie algebra theory, representaion theory of Lie algebras)
			7	Other algebra (including algebraic analysis, computational algebra, applications of algebra)
			1	Riemannian geometry (including geometric analysis)
		1	2	Symplectic geometry (including contact geometry)
		1	3	Complex geometry
			,	Other differential geometry (including
4702	Geometry		4	geometric structures, discrete geometry)
1702	Geometry	Н	5	Topology (algebraic topology, general topology
			6	Differential topology (foliations, singularities, topological transformation groups)
		2	7	Low-dimensional topology (knot theory, 3-dimensional manifolds, 4-dimensional manifolds)
		Н		Functional analysis (including operator
		1	1	theory/representation theory)
			2	Operator algebras
			3	Dynamical systems/Integrable systems
4703	Basic		4	Algebraic analysis
4703	analysis		5	Real analysis
			6	Complex analysis
		2	7	Probability theory
			8	Other basic analysis (including function spaces/foundations of applied analysis)
		П	1	Functional equations
4704	Mathematical		2	Applied analysis
4704	analysis		3	Nonlinear analysis (including variational analysis/nonlinear phenomena)
		1	1	Mathematical logic and foundations, Information mathematics
			2	Discrete mathematics
47705	Foundations of		3	Numerical analysis/ Mathematical models (including prediction Theory, optimization, data analysis)
4705	mathematics/ Applied mathematics	2	4	Statistical mathematics (including game theory design of experiments, convex programming problems, decision theory, estimation theory, testing theory, estimation of stochastic processes)
	1	П	5	Other applied mathematics

**Discipline: Astronomy** 

DISC	Discipline: Fish onomy							
Item Number	Research Field	Screening Sub-panel Number / Keyword						
		1	Optical/Infrared astronomy					
		2	Radio astronomy					
4801	Astronomy	3	Solar physics					
4001		4	Astrometry					
		5	Theoretical astronomy					
		6	X-ray/γ-ray astronomy					

Research Tield	Disc	ipline: Physics	5			Disc	ipline: Earth a	nd	l pl	lanetary science
Particle	Item				Screening Sub-panel Number / Keyword	Item	r i			-
Particle/   Moclean			1	1	Particle physics (theory)				1	Earthquake phenomena
Particle/   Notice   Formation   Secondary Comment   Secondary C				2	Nuclear physics (theory)			L	2	Volcanic phenomena
Particle   Nuclear   Scamology/Grovitation (theory)			2	3	Cosmic ray physics (theory)			L	3	Prediction of earthquakes and volcanic eruptions
Solid early   Solid carry			_			]		L	4	Earthquake and volcanic disasters
Astro physics   7   Nuclear physics (experiment)   10   2   Astrophysics (experiment)   11   3   4   Astrophysics (experiment)   12   12   Particle descrotors   12   13   Particle descrotors   13   14   Particle descrotors   14   Particle descrotors   15   Particle descrotors   16   Particle descrotors   17   Particle descrotors   18   Particle descrotors   18   Particle descrotors   19   Particle descritors   19   Particl				5				L		
Astro-physics   2   Nacicar physics (experiment)   3   2   Astro-physics (experiment)   3   3   Astro-physics (experiment)   1   1   Accelerator technology   1   1   Particle betectors   2   Massocarpis system/Localization   3   Optical properties   2   Massocarpis system/Localization   3   Optical properties   5   Optical properties   6   Optical properties   7   Op	4901					_	Solid earth	L	6	Geomagnetism
Astro physics   3   S. Cosmic ray physics (experiment)   10   Cosmology/Gravitation (experiment)   11   Accelerator rethendingy   12   Particle detectors   12   Semiconductors   12   Semiconductors   13   Semiconductors   13   Semiconductors   14   Semiconductors   15   Semiconductors   15   Semiconductors   16   Semiconductors   16   Semiconductors   16   Semiconductors   16   Semiconductors   17   Lattice defects   18   Conductors   18   Mescendogy   19   Competitions   18   Conductors   19   Physical   19   Physical   10   Physical provide   19   Physical   10   Physical provide   19   Physical   10   Physical provide	.,,,	2		7	* * · · · · · · · · · · · · · · · · · ·	5001			7	*
Sarophysics (seperment)   1   1   Cosmology (fravitation (esperiment)   1   1   Particle detectors   1   2   Particle detectors   1   2   Particle detectors   2   Mesocopoly system of caliration   3   3   2   Mesocopoly system of caliration   3   3   2   Mesocopoly system of caliration   3   3   3   Mesocopoly   3   4   Mesocopoly   3   Mesocopoly   4   4   Mesocopoly   4   Mesocopoly   4   Mesocopoly   5   4   Mesocopoly   5   4   Mesocopoly   5   4   Mesocopoly   5   5   4   Mesocopoly   5   5   5   5   5   5   5   5   5		Astro physics						L	8	
1   Accelerator technology   1   Particle detectors   2   Particle detectors   3   Optical properties   4   Surface Interface   5   Optical properties   5   Optical properties   5   Optical properties   6   Optical properties   6   Optical properties   7   Interies defects			3			41	F7	l ⊩		
1   1   2   2   2   2   2   2   2   2										
Condensed and Physics   1   Semiconductors   2   Semiconductors   3   Semiconductors   2				_		41				1
Condensed   Condensed   Surface Interface   Condensed   Condensed Interface   Condensed Interface   Condensed   Condensed   Condensed   Condensed   Condensed   Condensed   Cond						41		L		
Condensed matter physics 1   Softiace interface				_		41		H		
Condensed   Figure				_		1		4	14	
### Actional Computational Physics 1  ### Actional Computational Physics 2  ### Actional Computational Physics 3  ### Actional Computational Physics 4  ### Actional Computational Physics 4  ### Actional Computational Physics 4  ### Actional Computational Physics 5  ### Actional Computational Physics 6  ### Actional Computational Physi				-	1 1 1	41		L	1	
Meteorology		Condensed		-		41		⊢		
physics I   7   Lattice defects   8   X-rayParticle beam   9   Phonon properties   9   Phonon properties   9   Phonon properties   9   Phonon properties   9   2   Magnetis more somance   2   2   Magnetis matter   2   Magnetic matter   2   Magnetic matter   2   Magnetic matter   2   Magnetic matter   2   Mag	4902			-		41	Meteorology/	⊢		
Particle defects   Secongraphy   Florid properties   Secong   Physical ceanography   Physical ceanography   Physical ceanography   Physical ceanography   Flydrology   Flydr		physics I				41		l ⊢		****
B. X-rayParticle beam   9 Phonon proprecises   10 Spin properties (semiconductor)   1 Spin properties (semiconductor)   1 Spin properties (semiconductor)   2 Magnetism   3 Strongly-correlated system   3 Strongly-correlated system   4 High temperature superconductivity   5 Metal   4 High temperature superconductivity   5 Metal   6 Utilizable temperature superconductivity   7 Utilizable temperature superconductiv		-				5002				
1   1   Magnetism   2   Magnetism   2   Magnetism   3   Magnetism   3   Magnetism   2   Magnetism   2   Magnetism   2   Magnetism   3   Strongly-correlated system   4   High temperature superconductivity   3   Metal   4   High temperature superconductivity   5   Metal   Ultralow temperature/Condensed quantum system   7   Superconductivity/Density wave system   7   Superconductivity/Density wave system   7   Superconductivity/Density wave system   8   Molecular solid/Organic conductor   1   Statistical physics   4   Integrable system   5000   Space and system   7   Superconductivity/Density wave system   7   Superconductivity/Density wave system   8   Molecular solid/Organic conductor   1   Statistical physics   4   Integrable system   5   Molecular solid/Organic conductor   5   Molecular solid/Organic conductor   7   Molecular solid/Organic solid system   7   Molecular solid/Organic solid system   7   Molecular solid/Organic solid system   7   Molecular solid sys						$\bot$	0 1 0		6	
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Position						41		L	8	-
Condensed   High temperature superconductivity   High temperature superconductor   High tempera			1	_		$\downarrow$		$\perp$	9	
Condensed   4 High temperature superconductivity   3 Metal   2						41		L	1	
Space and physics II   2						41		⊢		
physics II   2				_		41	1			<del> </del>
6   system   7   Superconductivity/Density wave system   8   Molecular solid/Organic conductor   9   Planetary plasma/Planetary space   9   Planetary plasma/Planetary atmosphere exploration   1   Statistical physics   2   Fundamental condensed matter theory   9   Planetary plasma/Planetary atmosphere exploration   1   Regional geology   9   Planetary plasma/Planetary atmosphere exploration   1   Regional geology   9   Planetary plasma/Planetary atmosphere exploration   1   Regional geology   2   Marine geology   3   Accretionary prism/Orogenic belt   4   Structural geology/Pctonics   5   Volcanoses/Active faults/Geologic hazards   5   Volcanoses/Active faults/Geologic hazards   5   Volcanoses/Active faults/Geologic hazards   5   Regional geology   6   Regional geology   6   Regional geology   6   Regional geology   6   Regional geology   7   Regional geology   8   Region	4903			5	****	41	upper atmospheric	⊢		
Position		physics II	2	6	= = = = = = = = = = = = = = = = = = = =	5003		ŀ		
8   Molecular solid/Organic conductor   1   Statistical physics   2   Fundamental condensed matter theory   9   Planetary plasma/Planetary atmosphere   9   Planetary atmosphere   9   Planetary atmosphere   9   Planetary plasma/Planetary atmosphere   9   Planetary atmosphere   9   Planetary plasma/Planetary atmosphere   9   Pla					*	41		ŀ	6	
Mathematical physics / Endamental condensed matter theory  Mathematical physics / Fundamental condensed matter theory  4904				_		41	pnysics	L	7	
Mathematical physics / Fundamental condensed matter theory  3 Mathematical physics   4 Integrable system   5 Non-equilibrium/Nonlinear physics   6 Applied mathematics   7 Dynamics   7 Dynamics   8 Fluid physics   9 Disordered system   10 Computational physics   1 Atomic/ Quantum electronics   1 Atomic/ Quantum electronics   2 Physics of living phenomena   3 Mathematical physics   4 Glass * Liquid * Solution   4 Function/Morphology   5 Paleoetology   6 Paleoetology   6 Paleoetology   7 Paleoetology   7 Quaternary study   8 Applied geology/Urban geology   9 Sedimentology/Energy resource geology   10 Earth history/Planetary geology   11 Geoinformatics   12 Fossil   3 Phylogeny/Evolution/Diversity   4 Function/Morphology   5 Paleoetology   6 Paleoetology   6 Paleoetology   7 Paleoetology   10 Earth history/Planetary geology   11 Geoinformatics   12 Fossil   3 Phylogeny/Evolution/Diversity   4 Function/Morphology   5 Paleoetology   6 Paleoetology   7 Pal					-	41		L	8	
Mathematical physics/ Fundamental condensed matter physics   Fundamental condensed matter physics of biomolecules   Fundamental condensed matter physics   Fundamental condensed physics   Fundamental co					1 7	41			9	
hysics/ Fundamental condensed matter physics  Physics   Fluid physics   Fluid physics   S   Fluid physics					-	-		+	_	
Fundamental condensed matter physics Condensed matter physics  Applied mathematics 7 Dynamics 8 Fluid physics 9 Disordered system 10 Computational physics 4905 Molecular/ Quantum electronics 2 Quantum information 4 Radiation 5 Baean physics 2 Physics of living phenomena 2 Physics of living phenomena 2 Physics of biomolecules 3 Mathematical biology 4 Glass · Liquid · Solution physics/ Chemical physics 8 Interface · Wetting · Adhesion · Fracture physics 8 Interface · Wetting · Adhesion · Fracture 9 Biophysics(general) 10 Chemical physics(general) 11 Soft matter physics(general) 12 Geology 13 Accretionary prism/Orogenic belt 4 Structural geology/Tectonics 5 Volcanoes/Active faults/Geologic hazards 6 Environmental geology/Hydraulic geology 7 Quaternary study 8 Applied geology/Urban geology 9 Sedimentology/Energy resource geology 10 Earth history/Planetary geology 11 Geoinformatics 12 History of geoscience 12 History of geoscience 13 Stratigraphy/ Paleontology 14 Function/Morphology 15 Paleoecology 16 Paleobiogeography 17 Paleoecology 18 Paleo-ocean 18 Paleo-ocean 19 Earth and planetary materials 19 Earth and planetary evolution 10 Crust/Mantle/Core 10 Mineral resources 10 Mineral resources				_		$\parallel \parallel$				
condensed matter physics						$\parallel$		l ⊢		
matter physics    Fluid physics     Fluid physics     Fluid physics     Disordered system     Disordered syste	4904					+		ŀ		• 1
Physics   8   Fluid physics   9   Disordered system   10   Computational physics   1   Atomic/ Molecular/ Quantum electronics   2   Quantum electronics   3   Quantum information   4   Radiation   5   Beam physics   5   Beam physics   1   Physics of living phenomena   2   Physics of living phenomena   2   Physics of living phenomena   2   Physics of biomolecules   3   Mathematical biology   4   Glass - Liquid - Solution   5   Optical response - Photosynthesis - Chemical physics/Soft matter physics   6   Polymer - Liquid crystal - Gel   7   Emulsion - Membrane - Colloid   10   Chemical physics/(general)   10   Ch					**	+		F		
4005   Sedimentology/Energy resource geology   Factorial decision   4005   Molecular/Quantum electronics   4006   Molecular/Quantum electronics   4006   Biological physics of biomolecules   4006   Chemical physics of living phenomena   4006   Chemical physics of teaching physics   4006   Chemical physic				_		+		F		<u> </u>
Atomic/ Molecular/ Quantum electronics  Biological physics/ Chemical physics/ Chemical physics/ Soft matter physics  Biological physics/ Chemical physics   5 Biophysics(general)   10 Chemical physics(general)   10 Che		physics		_		5004	Geology	┝		
Atomic/ Molecular/ Quantum electronics    1				-	· · · · · · · · · · · · · · · · · · ·	+		┞		
Adomic/ Molecular/ Quantum electronics    Adomic/ Molecular   2 Quantum electronics   3 Quantum information   4 Radiation   5 Beam physics   5 Beam physics   6 Polymer-Liquid crystal·Gel matter physics   7 Emilsion·Membrane·Colloid physics   7 Emilsion·Membrane·Colloid physics (general)   10 Chemical physics(general)   10 Chemical physics(			H					┞		
Moleculary Quantum electronics   3   Quantum information   4   Radiation		Atomic/		_				ŀ		0, 0, 0
Quantum electronics  4 Radiation 5 Beam physics  1 Physics of living phenomena 2 Physics of biomolecules 3 Mathematical biology 4 Glass*Liquid*Solution  physics/ Chemical physics/ Chemical physics/ Soft matter physics  8 Interface*Wetting*Adhesion*Fracture 9 Biophysics(general)  10 Chemical physics(general)  10 Chemical physics(general)  10 Chemical physics(general)  10 Great physics (general)  11 Stratigraphic succession  1 Stratigraphy/ Paleontology 4 Function/Morphology 5 Paleoecology 6 Paleobiogeography 7 Paleoenvironment 8 Paleo-ocean 1 Earth and planetary materials 2 Earth and planetary evolution 3 Crust/Mantle/Core 4 Magma/Igneous rocks 5 Metamorphic rocks 6 Mineral physics 7 Natural and artificial crystals 8 Elemental fractionation 9 Ore deposition 10 Mineral resources	4005	Molecular/		_	_	+		_		
Biological physics/ Chemical physics/ Soft matter physics   1   Soft matter physics (general)   1   Soft matter physics (general)   1   Soft matter physics (general)   1   Soft matter physics   2   Fossil   3   Phylogeny/Evolution/Diversity   4   Function/Morphology   5   Paleoecology   6   Paleobiogeography   7   Paleoenvironment   8   Paleo-ocean   1   Earth and planetary materials   2   Earth and planetary evolution   3   Crust/Mantle/Core   4   Magma/Igneous rocks   5   Metamorphic rocks   5   Metamorphic rocks   6   Mineral physics   7   Natural and artificial crystals   8   Elemental fractionation   9   Ore deposition   10   Mineral resources	4903	Quantum		_	_	+				
1 Physics of living phenomena   2 Physics of biomolecules   3 Mathematical biology   4 Glass · Liquid · Solution   5 Optical response · Photosynthesis · Chemical physics/ Chemical physics   6 Polymer · Liquid crystal · Gel matter physics   8 Interface · Wetting · Adhesion · Fracture   9 Biophysics(general)   10 Chemical physics(general)   11 Soft matter physics(general)   12 Soft matter physics   11 Soft matter physics(general)   12 Soft matter physics(general)   13 Soft matter physics(general)   14 Soft matter physics(general)   15 Soft matter physics(general)   16 Chemical physics(general)   17 Soft matter physics(general)   18 Soft matter physics(general)   19 Soft matter physics(general)   10 Chemical physics(general)   10 Chemi		electronics				+	<del>                                     </del>	+	1.2	
Biological physics/ Chemical physics/ Chemical physics of biomolecules  4906   Faleocology   4   Glass*Liquid*Solution   5   Optical response*Photosynthesis*Chemical reaction   5   Optical response*Photosynthesis*Chemical reaction   6   Polymer*Liquid crystal*Gel   7   Emulsion*Membrane*Colloid   8   Interface*Wetting*Adhesion*Fracture   9   Biophysics(general)   10   Chemical physics(general)   11   Soft matter physics(general)   12   Soft matter physics(general)   13   Phylogeny/Evolution/Diversity   4   Function/Morphology   5   Paleocology   6   Paleobiogeography   7   Paleoenvironment   8   Paleo-ocean   1   Earth and planetary materials   2   Earth and planetary evolution   3   Crust/Mantle/Core   4   Magma/Igneous rocks   5   Metamorphic rocks   6   Mineral physics   7   Natural and artificial crystals   8   Elemental fractionation   9   Ore deposition   10   Mineral resources   9   Ore deposition   10   Mineral resources   10   Chemical physics   11   Soft matter physics   12   Earth and planetary evolution   13   Crust/Mantle/Core   14   Magma/Igneous rocks   15   Metamorphic rocks   16   Mineral physics   17   Natural and artificial crystals   18   Elemental fractionation   19   Ore deposition   10   Mineral resources   10   Chemical physics   11   Soft matter physics   12   Earth and planetary evolution   13   Crust/Mantle/Core   14   Magma/Igneous rocks   15   Metamorphic rocks   16   Mineral physics   17   Natural and artificial crystals   18   Elemental fractionation   19   Ore deposition   10   Mineral resources   10   Chemical physics   11   Soft matter physics   12   Earth and planetary evolution   13   Crust/Mantle/Core   14   Magma/Igneous rocks   15   Metamorphic rocks   16   Mineral physics   17   Natural and artificial crystals   18   Chemical physics   19   Optical responses   10   Paleocology   20   Paleocology   21   Parth and planetary			$\vdash$			+1		-	2	0 1
Biological physics/ Chemical physics/ Chemical physics/ Soft matter physics  Biological physics/ Chemical physics/ Chemical physics Biophysics Biophysics Biophysics Biophysics(general)  10 Chemical physics(general)  11 Soft matter physics(general)  12 Stratigraphy/ Paleontology  5 Paleoecology  6 Paleobiogeography  7 Paleoenvironment  8 Paleo-ocean  1 Earth and planetary materials  2 Earth and planetary evolution  3 Crust/Mantle/Core  4 Magma/Igneous rocks  5 Metamorphic rocks  6 Mineral physics  7 Natural and artificial crystals  8 Elemental fractionation  9 Ore deposition  10 Mineral resources					• • • •	+		l ⊢		
Biological physics/ Chemical physics/ Chemical physics/ Soft matter physics  Biological physics/ Chemical physics/ Soft matter physics  Biological physics/ Chemical physics/Soft matter physics  Biological physics/ Chemical physics/Soft matter physics  Biological physics Photosynthesis Chemical reaction  Chemical physics/Soft matter  Biological physics/ Chemical physics/Soft matter  Biological physics/ Chemical physics/Soft matter  Biological physics/ Chemical physics/Gel  Biology Chemical physics/ Chemical physics/ Gel  Biophysics(general)  Chemical physics(general)  Chemical physics(general)  Biophysics(general)  Chemical physics(general)  Chemical physics(general)  Chemical physics(general)  Chemical physics(general)  Chemical physics/ Chemical physics/ Gel  Biophysics/ Chemical physics/ Chemical physics/ Paleontology  Petrology/ Mineral physics  Chemical physics/ Paleoecology  Chemical physics/ Paleoevironment  Biophysics/ Chemical physics/ Paleoevironment  Chemical physics/ Paleoevironment  Biophysics/ Chemical physics/ Paleoevironment  Chemical physics/ Chemical physics/ Chemical physics/ Chemical physics/ C				-	·	+1	Strationarhy/	⊢		
hysics/Chemical physics/Soft matter physics  Biophysics/Soft matter physics  Biophysics/general)  Chemical physics  Biophysics/Soft matter physics general)  Chemical physics  Biophysics/Soft matter physics(general)  Chemical physics/Soft matter physics(general)  Chemical physics/Soft matter physics(general)  Chemical physics  Biophysics(general)  Chemical physics(general)  Chemical physics(genera		D:-1- : :		-		5005		⊢		
Chemical physics/Soft matter physics    Chemical physics/Soft matter physics   5   6   Polymer*Liquid crystal*Gel   7   Emulsion*Membrane*Colloid   8   Interface*Wetting*Adhesion*Fracture   9   Biophysics(general)   10   Chemical physics(general)   11   Soft matter physics(general)   12   Soft matter physics(general)   13   Soft matter physics(general)   14   Soft matter physics(general)   15   Soft matter physics(general)   16   Petrology/   Economic geology   16   Mineral physics   16   Mineral physics   16   Mineral physics   17   Paleoenvironment   18   Paleo-ocean   18				4		+	acontology	H		
hysics/Soft matter physics    6   Polymer*Liquid crystal*Gel   8   Paleo-ocean				5				-	_	
matter physics  7 Emulsion • Membrane • Colloid 8 Interface • Wetting • Adhesion • Fracture 9 Biophysics(general) 10 Chemical physics(general) 11 Soft matter physics(general)  12 Soft matter physics(general) 1 Soft matter physics(general)  1 Earth and planetary materials 2 Earth and planetary evolution 3 Crust/Mantle/Core 4 Magma/Igneous rocks 5 Metamorphic rocks 6 Mineral physics 7 Natural and artificial crystals 8 Elemental fractionation 9 Ore deposition 10 Mineral resources	4906			6		+1		-		
physics  8 Interface • Wetting • Adhesion • Fracture 9 Biophysics(general) 10 Chemical physics(general) 11 Soft matter physics(general)  12 Soft matter physics(general) 13 Soft matter physics(general)  14 Soft matter physics(general)  5006  Petrology/ Mineralogy/ Economic geology  Feodomy  That the plateary materials 2 Earth and planetary evolution 3 Crust/Mantle/Core 4 Magma/Igneous rocks 6 Mineral physics 7 Natural and artificial crystals 8 Elemental fractionation 9 Ore deposition 10 Mineral resources				_		+	<del>                                     </del>	+	1	
9 Biophysics(general) 10 Chemical physics(general) 11 Soft matter physics(general) 5006 Petrology/ Mineralogy/ Economic geology Petrology/ Ore deposition 10 Mineral resources				_		+		-	2	
10 Chemical physics(general) 11 Soft matter physics(general) 5006 Petrology/ Mineralogy/ Economic geology Fernology/ Beconomic geology  4 Magma/Igneous rocks 5 Metamorphic rocks 6 Mineral physics 7 Natural and artificial crystals 8 Elemental fractionation 9 Ore deposition 10 Mineral resources		1 3		_		+1		-		
11   Soft matter physics(general)				-		+		l ⊢		
5006 Mineralogy/Economic geology				-		+	25	l ⊢		
geology  7 Natural and artificial crystals  8 Elemental fractionation  9 Ore deposition  10 Mineral resources			_	- 1 1	port matter physics(general)	J    5006		⊢		-
8 Elemental fractionation 9 Ore deposition 10 Mineral resources						3000		-	7	
9 Ore deposition 10 Mineral resources							geology	╟	8	-
10 Mineral resources								-	9	
								-	10	^
								⊢		Biologic and environmental minerals

(Discipline: Earth and planetary science)

Item Number	Research Field	Screening Sub-panel Number / Keyword		
			1 Earth and extraterrestrial materials	
			2 Material recycling	
			3 Distribution of elements and molecules	
	Geochemistry/ Cosmochemistry		4 Isotope/Radiometric dating	
			5 Cosmochemistry	
5007			6 Chemistry of the crust and mantle	
			7 Organic geochemistry	
			8 Biosphere geochemistry	
			9 Atmospheric and hydrospheric geochemistry	
			Environmental/geo-environmental chemistry	
			Analytical methods	

Discipline: Plasma science

Item Number	Research Field	Screening Sub-panel Number / Keyword		
		1	Basic plasma physics and electric discharges	
		2	Space and astrophysical plasmas	
		3	Burning plasma	
		4	High energy density physics	
		5	Complex plasmas	
	Plasma science	6	Reactive plasmas	
5101		7	Plasma chemistry	
	sciciec	8	Plasma applications	
		9	Plasma diagnostics	
		10	Plasma control /Laser	
		11	Plasma acceleration	
		12	Plasma application to beam physics	
		13	Plasma application to mm and THz waves	

**Area: Chemistry** 

Discipline: Basic chemistry

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Structural chemistry
		2	Electronic state
		3	Molecular dynamics
		4	Chemical reaction
	Dhysical	5	Reaction dynamics
5201	Physical chemistry	6	Molecular spectroscopy
	Chemistry	7	Surface/Interface
		8	Solution
		9	Cluster
		10	Theoretical chemistry
		11	Biophysical chemistry
		1	Structural organic chemistry
	Organic chemistry	2	Organic reaction chemistry
		3	Synthetic organic chemistry
5202		4	Organoelement chemistry
		5	Organic photochemistry
		6	Physical organic chemistry
		7	Theoretical organic chemistry
		1	Metal complex chemistry
		2	Organometallic chemistry
		3	Inorganic solid-state chemistry
		4	Bioinorganic chemistry
		5	Nuclear/Radiochemistry
	Inorganic		Supramolecular complexes
5203	chemistry	7	Multinuclear/Cluster complexes
	Chemistry	8	Coordination polymers
		9	Solution chemistry
		10	Nanomaterials
		11	Crystal structure
		12	Catalysts
		13	Element resources

Discipline: Applied chemistry

Disc	ipline: Applied chemistry					
Item Number	Research Field		Screening Sub-panel Number / Keyword			
		1	Optical properties			
		2	Electronic properties			
		3	Electron spin			
		4	Integrated properties			
	Functional	5	Molecular devices			
5201	solid state	6	Supramolecules			
3301	chemistry	7	Liquid crystals			
	chemistry	8	Crystals			
		9	Thin films			
		10	Surface/Interface			
		11	Colloids/Quantum dots			
		12	Electrochemistry			
		1	Selective synthesis			
		2	Complex/Organometallic catalysis			
		3	Fine chemicals			
		4	Asymmetric synthesis			
		5	Catalyst design/reaction			
	Synthetic	6	Environmentally benign synthesis			
5302	chemistry	7	Reaction field			
	chemistry	8	Automatic synthesis			
		9	Biomimetic synthesis			
		10	Combinatorial synthesis			
		11	Organocatalyst			
		12	Natural product synthesis			
		13	Synthetic resources			

Itam	scipline: Applied chemistry)						
Number	Research Field		Screening Sub-panel Number / Keyword				
		1	Polymer synthesis				
		2	Polymer reaction/degradation				
		3	Asymmetric polymerization				
		4	Self-assembled polymers				
		5	Polymer structure				
	Polymer	6	Polymer properties				
5303	chemistry	7	Functional polymers				
		8	Bio-related polymers				
		9	Polymer complex				
		10	Polymer thin film/surface				
		11	Polymerization catalyst				
		12					
		1	Sampling/Pretreatment				
		2	Solvent/solid-phase extraction				
		-	Instrumental analysis				
		3					
		4	Spectrometric analysis				
		5	Laser spectroscopy				
		6	Mass spectrometry				
		7	X-ray/electron spectroscopy				
		8	Surface/particulate analysis				
	Analytical	9	Electrochemical analysis				
5304	chemistry	10	Chemical/bio sensor				
	chemistry	11	Separation analysis				
		12	Chromatography				
		13	Electrophoresis				
		14	Flow analysis (FIA)				
			Microchannel analysis				
			Analytical reagent				
			Environmental analysis				
		18	·				
		19	· · · ·				
		1	Nucleic acid chemistry				
		2	Proteins and enzymes				
		3	Sugar chemistry				
		4	Natural products chemistry				
		5	Bio-inorganic chemistry				
	Die releted	6	Bio-related chemistry				
5305	Bio-related chemistry	7	-				
	Chemistry	-	Molecular recognition				
		8	Bio-functional chemistry				
			Biotechnology				
			Biocatalysts				
		-	Biofunctional materials				
<u> </u>		_	Bio-structural chemistry				
		1					
		2	Sensor/monitoring				
		3	Pollutant evaluation				
		_					
		4	Pollution indicator				
		-	Pollution indicator Environment assessment				
		5					
		5	Environment assessment				
	Green/	5	Environment assessment Environmental information chemistry				
5306	Green/ Environmental	5 6 7	Environment assessment Environmental information chemistry Pollutant				
5306		5 6 7 8 9	Environment assessment Environmental information chemistry Pollutant Decontamination material Environmental road-reducing substance				
5306	Environmental	5 6 7 8 9	Environment assessment Environmental information chemistry Pollutant Decontamination material				
5306	Environmental	5 6 7 8 9	Environment assessment Environmental information chemistry Pollutant Decontamination material Environmental road-reducing substance Biodegradable substance Environmental restoration material				
5306	Environmental	5 6 7 8 9 10 11	Environment assessment Environmental information chemistry Pollutant Decontamination material Environmental road-reducing substance Biodegradable substance Environmental restoration material Green chemistry				
5306	Environmental	5 6 7 8 9 10 11 12 13	Environment assessment Environmental information chemistry Pollutant Decontamination material Environmental road-reducing substance Biodegradable substance Environmental restoration material Green chemistry Sustainable chemistry				
5306	Environmental	5 6 7 8 9 10 11 12 13 14	Environment assessment Environmental information chemistry Pollutant Decontamination material Environmental road-reducing substance Biodegradable substance Environmental restoration material Green chemistry Sustainable chemistry Recycle				
5306	Environmental	5 6 7 8 9 10 11 12 13 14 15	Environment assessment Environmental information chemistry Pollutant Decontamination material Environmental road-reducing substance Biodegradable substance Environmental restoration material Green chemistry Sustainable chemistry Recycle Element recovery				
5306	Environmental	5 6 7 8 9 10 11 12 13 14 15 16	Environment assessment Environmental information chemistry Pollutant Decontamination material Environmental road-reducing substance Biodegradable substance Environmental restoration material Green chemistry Sustainable chemistry Recycle				

(Discipline: Applied chemistry)

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Item Number	Research Field	Screening Sub-panel Number / Keyword				
		1	Energy conversion			
		2	Low-carbon Chemistry			
	Energy- related chemistry	3	High-functional catalysts			
5307		4	Photocatalysts			
		5	Molecular devices and materials			
		6	Energy resources			
		7	Energy conservation chemistry			

Discipline: Materials chemistry

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Liquid crystals
		2	Crystals
	Organic and	3	Organic semiconductor materials
5401	hybrid	4	Organic optical materials
	materials	5	Organic/inorganic hybrid materials
		6	Molecular device materials
		7	Other functional materials
		1	Properties of polymer materials
		2	Synthesis of polymer materials
		3	Textiles
	D 1 /	4	Rubbers
	Polymer/ Textile	5	Gel
	materials	6	Functional polymer materials
	materiais	7	Biopolymers
		8	Polymer alloy
		9	Polymer composites
		10	Polymer/Textile processing
		1	Crystals
		2	Glass
		3	Ceramics
		4	Metals
		5	Layered/Intercalation compounds
	Inorganic industrial	6	Ion exchangers
	materials	7	Ionic conductors
	materials	8	Photocatalysts
		9	High-functional catalysts
		10	Electrochemical materials
		11	Nanoparticle/Quantum dots
		12	Porous materials
		1	Semiconductor devices
	Device	2	Electrical, magnetical and optical devices
5404	related		Biofunctional devices
	chemistry	4	Batteries
		5	Molecular sensors

## **Area: Engineering**

Discipline: Mechanical engineering

	ipline: Mechar	iical	
Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Material design/Process/Mechanical
		1	properties/Evaluation
		2	Continuum mechanics
		3	Structural mechanics
		4	
	Materials/	5	Fracture
5501	Mechanics of	-	
	materials	6	
		7	Environments
		8	remacinity
		9	Didinedianies
		_	Nano/Micro material mechanics
		11	Bio material mechanics
		1	Modeling for production
		2	Production Systems
		3	Production management
		4	
	Production	5	Machine tools
5502	engineering/	6	Forming process
	Processing	7	Cutting/Grinding process
	studies	8	Special processing
		9	
			Chrapterson maching
			Nano/Micro machining
			Precise positioning/Measurements
		2	Design engineering
		3	Shape modeling CAD·CAM·CAE
		4	Synectics
	Design	5	· ·
	engineering/	6	1
5503	Machine	7	
	functional	8	
	elements/	9	-
	Tribology	10	Life cycle analysis and design
			Recycle design
			Tribology
		13	Nano/Micro tribology
		1	Computational fluid dynamics
		2	Flow measurements
		3	Compressible/Incompressible flow
		4	Turbulent flow
		5	Multi-phase flow
	T21 : 1	6	
5504	Fluid	7	Non-Newtonian flow
	engineering	8	Micro flow
		9	Molecular fluid dynamics Bio-fluid mechanics
			Environmental fluid mechanics
			Acoustics
			Fluid machinery
			Fluid power systems
		1	Thermophysical property
		2	
		3	Heat conduction
		4	Thermal radiation
		5	Mass transfer
5505	Thermal	6	Combustion
2202	engineering	7	Nano/Micro thermal engineering
		8	
		9	8
			Heat transfer equipment
			Energy engineering
		12	Bio thermal engineering

(Discipline: Mechanical engineering)

Item Number	Research Field	Screening Sub-panel Number / Keyword				
		1	Dynamics			
		2	Dynamic design			
		3	Vibration mechanics			
		4	Vibration analysis/tests			
		5	Control instrument			
5506	Dynamics/	6	Motion control			
3300	Control	7	Vibration control			
		8	Mechanical measurements			
		9	Aseismic/Seismic isolation design			
		10	Vehicle and transport system control			
		11	Acoustic information/Acoustical control			
		12	Acoustic energy			
		1	Robotics			
		2	Mechatronics			
		3	Nano/Micro mechatronics			
	Intelligent	4	Biomechanics			
5507	mechanics/	5	Softmechanics			
3307	Mechanical	6	Information equipment/Intelligent (smart)			
	systems	L	machine systems			
		7	Precision mechanics and systems			
		8	Human-machine systems			
		9	Information systems			

Item Number	Research Field		Screening Sub-panel Number / Keyword
			Electrical energy engineering
	Power	1	(generation/conversion/storage, and energy
	engineering/		conservation)
	Power	2	Power system engineering
5601	conversion/	3	Electric machinery
	Electric	4	Power electronics
	21000110	5	Effective utilization of electric energy
	machinery	6	Electric/Electromagnetic compatibility
		7	Illumination/Lighting
			Electrical and electronic materials(semiconducto
	Electronic	1	dielectric,magnetic, ferro-
5602	materials/		dielectric,organic,insulator, superconductor,etc.)
3602	Electric	2	Thin film/Quantum structure
	materials	3	Thick film
		4	Fabrication/Characterization method
		1	Electron device/Integrated circuits
			Circuit design/Computer aided circuit design
		2	(CAD)
		3	Optical devices and circuits
	Electron	4	Quantum devices/Spintronic devices
	Electron	5	Microwave/Millimeter wave/Terahertz wave
5603	device/	6	Wave technology and applications
	Electronic	7	Bio devices
	equipment	8	Information storage/record
		9	Display
			Sensing devices
		11	Micro fabrication process technology
		12	Interconnect,packaging and system integration
		1	Electronic circuits and systems
		2	Nonlinear theory/circuits
		3	Information theory
		4	Signal processing
		T <sub>-</sub>	Communication systems (wireless, wired,
		5	satellite, optical and mobile)
	Communication/	6	Modulation/Demodulation
5604	Network engineering	7	Coding/Decoding
	engmeering	8	Protocol
		9	Antennas
		10	Routing/Switching
			Networks/Local area networks (LAN)
			Multimedia
	1	1	111GIGITIOGIA

(Discipline: Electrical and electronic engineering)

	iscipinic. Electrical and electronic engineering)						
Item Number	Research Field	Screening Sub-panel Number / Keyword					
	24		1	Measurement technology			
			2	Measuring/Analyzing instruments			
5605	Measurement		3	Measurement systems			
	engineering		4	Signal processing			
			5	Sensing information processing			
			1	Control theory			
	Control engineering/ System engineering		2	System theory			
			3	Knowledge-based control			
			4	Control technology			
			5	Control systems			
5606			6	Complex systems			
3000			7	System information (knowledge) processing			
			8	Social systems engineering			
			9	Management systems engineering			
			10	Environmental systems engineering			
			11	Production systems engineering			
				Biosystems engineering			

Discipline: Civil engineering

Item Number	Research Field		Screening Sub-panel Number / Keyword
Number		1	Concrete
		2	Steel
		3	Polymeric materials
	Civil	4	Composite material/New materials
	engineering	5	Timber
	materials/	6	Construction
5701	Construction/	7	Pavement/Bituminous materials
	Construction	8	Maintenance/Management
		9	Construction business plan/Construction design
	management	10	
		12	Underground space
		1	Applied mechanics
	Structural	2	Structural engineering
	engineering/	3	Steel structure
	Earthquake	4	Concrete structure
5702	engineering/	5	Hybrid structure
	Maintenance	6	Wind engineering
	management	7	Earthquake engineering
	engineering	8	Earthquake resistant structure
	engmeering	9	Earthquake disaster prevention
		10	Maintenance engineering
		1	Soil mechanics
	Geotechnical	2	Foundation engineering
		3	Rock engineering
		4	Engineering geology
5703		5	Ground behavior
	engineering	6	Ground and structure
		7	Geotechnical disaster prevention
		8	Geo-environmental engineering
		9	Tunnel engineering
		1	Hydraulics
		2	Environmental hydraulics
		3	Hydrology
5704	Hydraulic	4	River engineering
5/04	engineering	5	Water resources engineering
		6	Coastal engineering
		7	Port engineering
		8	Ocean engineering
		1	Infrastructure planning
		2	Regional/Urban planning
	G: 11	3	Nationwide spatial planning
	Civil	4	Disaster prevention planning/Environmental planning
	engineering	5	Transportation planning
5705	project/	6	Traffic engineering
	Traffic	7	Railway engineering
	engineering	8	Surveying/Remote sensing
		9	Landscape architecture/Design
			Infrastructure history
	i	10	mmasu ucture mistory

(Discipline: Civil engineering)

(2210	(2 iselpinie: er in engineering)								
Item Number	Research Field	Screening Sub-panel Number / Keyword							
		1	Environmental planning and management						
		2	Environmental systems						
	G: :1 I	3	Environmental conservation						
	Civil and environmental engineering	4	Water and wastewater systems						
		5	Domestic and industrial wastes						
	engineering	6	Soil and water environments						
		7	Atmospheric circulation/Noise and vibration						
		8	Ecological engineering						

Discipline: Architecture and building engineering

Item Number	Research Field		Screening Sub-panel Number / Keyword
			Load theory
		2	Structural analysis
		3	Structural design
		4	Concrete structure
		5	Steel structure
		6	Timber structure
	Building	7	Composite structure
5801	structures/	8	Foundation
	Materials	9	Structural material
		10	Building construction method
		11	Maintenance technology
			Earthquake disaster prevention
		13	Structure control
		14	Earthquake resistant design
			Wind resistant design
		1	Sound/Vibration environment
		2	Light environment
		3	Heat environment
	Architectural	4	Air environment
		5	Environmental equipment planning
5802	environment/	6	Environmental psychology/physiology
	Equipment	7	Building equipment
		8	Fire engineering
		9	Global/Urban environment
		10	Environment designing
		1	Planning theory
			Design theory
			Housing theory
	Town		Building types/District facilities
	1 . /	5	Urban/Regional planning
5803	Architectural	6	Administration/System
	planning	7	Building/Urban economy
	piaining	8	Production management
		9	Disaster prevention planning
		_	Landscape/Environmental planning
		1	Architectural history
		2	Urban history
5804		3	Architectural theory
	Architectural	_	Design
5004	history/Design	5	Style
		6	
		7	Landscape/Environment
		_ /	Preservation/Renovation

Discipline: Material engineering

DISC	ipime: Materia	n en	gmeering					
Item Number	Research Field	Screening Sub-panel Number / Keyword						
		1	Electronic/Magnetic properties					
		2	Mechanical/Thermal/Optical properties					
		3	Properties of surfaces/Interfaces/Thin films					
	Physical	4	Magnetic/Electronic/Information Materials					
5001	properties of	5	Superconductors/Semiconductors					
5901	metals/Metal-	6	Amorphous/Metallic glasses/Quasicrystals					
	base materials	7	First principles calculations/Material design					
		'	simulations					
		8	Atomic/Electronic structural characterization					
		9	Diffusion/Phase transformation/Phase diagrams					

(Discipline: Material engineering)

Item	cipline: Material engineering /  Research Field Screening Sub-panel Number / Keyword								
Number	Research Field	1							
		1	Crystal structure/Microstructure control						
		2	Mechanical/Electronic/Electromagnetic/Optical						
			/Thermeal properties						
	Inorganic	3	Surface/Interface control						
5902	materials/	4	Functional ceramics						
3702	1 Hysicai	5	Functional glasses						
	properties	6	Structural ceramics						
		7	Carbon materials						
		8	Dielectric materials						
		9	Inorganic material synthesis and process						
		1	Functional composites						
		2	Structural composites						
		3	Hybrid/Smart/Biomaterials						
	Composite	4	Surface/Interface/Grain boundary control						
	materials/	5	Plasma/Laser/Surface treatment and process						
5903	Surface and		Durability/Environmental						
	interface	6	degradation/Monitoring/Evaluation						
	engineering	7	Bonding/Adhesion/Welding						
		8	Recyclable bonding/Composites						
		9	Design/Fabrication process/Forming						
		10	Complex polymer						
		1	Strength/Fracture toughness						
		2	Reliability						
		3	Energy materials						
	Structural/		Fuel cell/Electric cell materials						
5904	Functional	5	Sensor materials/Optical functional materials						
	materials	6	Biomaterials/Medical materials/Welfare materials						
	inaterials	7	Multifunctional materials						
		8	Infrastructure materials						
		9	Functional polymeric materials						
		1	Plastic forming/Shaping						
		2	Mechanical/Thermal treatments						
	Material	3	Precision/Non-conventional process						
	processing/	4	Crystal structure/Microstructure control						
5905	Microstructural	5	Electrochemical process						
	control	6	Powder process/Powder metallurgy						
	engineering	7	Thin film/Plating/Wiring process						
		8	Electrocatalysis						
		1	Reaction/Separation/Refining						
		2	Melting/Solidification						
		3	Casting						
		4	Crystal growth/Fabrication						
5906	Metal	5	Various manufacturing process						
	making/	6	Ecological materials/Energy saving process						
	Resource	- 0							
	production	7	Process for scarce resource substitution/Ubiquitous materials						
	engineering								
	-	8	Environmental purification/Low environmental						
		-	burden/Sustainable materials						
		9	Recycling/Recycling process/Reuse/Transduction						
		10	Resource separation/Safeguard/Securing						

Disci	Discipline: Process/Chemical engineering							
Item Number	Research Field	Screening Sub-panel Number / Keyword						
		1 Equilibrium/Transport properties						
		2 Fluid/Heat transfer/Mass transfer operation						
		3 Distillation						
	Properties in	4 Extraction						
	chemical	5 Absorption						
	engineering	6 Adsorption						
	process/	7 Ion exchange						
6001	Transfer	8 Membrane separation						
	operation/	9 Hetero-phase separation						
	Unit	10 Ultra high separation						
		11 Stirring/Blending operation						
	operation	12 Granular and powdered materials operation						
		13 Crystallization procedure						
		14 Thin film/Microparticle forming operation						
		15 Polymer processing						

(Dis	Discipline: Process/Chemical engineering)							
Item Number	Research Field	Screening Sub-panel Number / Keyword						
		1	Gas/Liquid/Solid/Supercritical fluid operation					
		2	Novel reaction field					
		3	Reaction rate					
		4	Reaction mechanism					
	Reaction	5	Reaction apparatus					
		6	Materials synthesis process					
6002	engineering/ Process	7	Polymerization process					
		8	Measurement					
	system	9	Sensors					
		10	Process control					
		11	Processing system design					
			Process information processing					
		13	Process operation/Facilities management					
		1	Catalysis reaction					
		2	Catalyst preparation chemistry					
	Catalyst/ Resource chemical	3	Catalyst performance analysis					
		4	Energy conversion process					
6003		5	Fossil fuel effective utilization technology					
		6	Resources/Energy effective utilization					
	process	0	technology					
		7	Resources/Energy saving technology					
		8	Combustion technology					
		1	Biocatalyst engineering					
		2	Biofunction engineering					
		3	Food engineering					
		4	Medicochemical engineering					
		5	Bioproduction process					
	Biofunction/	6	Environmental Bioprocess					
6004	Bioprocess	7	Micro/Nano Bioprocess					
	Bioprocess	8	Applied bioelectrochemistry					
		9	Bioreactor					
		10	Biosensor					
		11	Bioseparation					
		12	Biorefinery					
		13	Bioinformatics					

Discipline:Integrated engineering

Disc	ipline:Integrate	ed er	ngineering
Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Aerodynamics
		2	Structure/Material
		3	Vibration/Strength
		4	Guidance/Navigation/Control
	Aaroonooo	5	Propulsion/Engine
6101	Aerospace engineering	6	Flight dynamics
	engineering	7	Aerospace system
		8	Design/Instrumentation
		9	Special aircraft
		10	Space utilization/Exploration
		11	Aerospace environment
		1	Propulsion/Vessel dynamics
		2	Material/Structural mechanics
		3	Ship and marine hydrodynamics
		4	Planning/Design/Production system
		5	Shipbuilding/Equipment
	Naval and	6	Maritime transportation system
6102	maritime	7	Marine engine/Fuel
	engineering	8	Marine environment
		9	Marine resources/Energy
		10	Ocean exploration/Equipment
		11	Undersea and subsea engineering
			Polar engineering
		13	Maritime systems

(Dis	scipline:Integrated engineering)								
Item Number	Research Field	Screening Sub-panel Number / Keyword							
		1	Applied geology						
		2	Geo-engineering						
		3	Remote sensing						
		4	Monitoring in Geo-engineering						
		5							
		6	I						
	Earth system	7	Natural resource development						
6103	and resources	8							
	engineering	9	F						
		10	Underground disposal and storage						
			Contaminated soil remediation						
		13	Development and utilization of deep underground						
		13	Material resources						
			Renewable source/Energy						
		1:	Economic resources						
		_1	F						
		2	Peripheral/divertor plasma						
		3	Plasma measurement						
		4							
		5							
6104	Nuclear fusion studies	6							
010.		7							
		8	2011 dell'iddoll material						
		9	2. returning net						
			Inertial confinement fusion						
		1	8						
		1:	, č						
		_ 1							
		2	FJ						
		3	1 (defeat incusarements, reading physics						
		4							
		_ 5	Stractare						
	Nuclear	6							
6105	engineering	7	Tradical Indicated Tradical Tradi						
		8							
		9	1 del eyele						
		-	Backend						
		1							
			2 Health physics/Environmental safety						
<u> </u>			3 Social environment of nuclear energy						
		1							
	Enouse	2	BJ						
6106	Energy	3							
	engineering	4	- 6, - ,						
		5	Zii i i i i i i i i i i i i i i i i i i						
		6	Natural energy use						

### **Area: Biological Sciences**

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Item Number	Research Field			Screening Sub-panel Number / Keyword	Item Number	Research Field				Screening Sub-panel Number / Keyword
			1	Molecular and cellular neuroscience			T	1	1	Genome instability
			2	Developmental and regenerative neuroscience					$\rightarrow$	Epigenetics
			3	Neuroendocrinology				-		Cancer genome analysis
			4	Clinical neuroscience				⊢		Carcinogenesis
6201	Neurophysiology							⊢	_	Inflammation and cancer
0201	/ General neuroscience		5	Neuroinformatics				⊢	$\rightarrow$	
			6	Behavioral neuroscience				⊢	-	Laboratory animal models
			7	Computational neuroscience				⊢	$\rightarrow$	Genetically-modified animals
			8	(Nervous) System physiology				⊢	$\rightarrow$	Oncogene
			9	Somatic, visceral or special sensation				9	$\rightarrow$	Tumor suppressor gene
		A	[Ne	euroanatomy]				⊢	$\rightarrow$	Signal transduction
			1	Neural network				1	1	DNA replication
			2	Neurohistology			Ι_Δ	1	2	Cell cycle
			3	Molecular neurobiology			1	1	3	Cancer and heredity
			4	Neural fine structure				1	4	Apoptosis
			5	Neurohistochemistry and neurocytochemistry	C 401	Tumor		1	15	Cell polarity
			6	Neural development and its abnormality	6401	biology		$\vdash$	$\rightarrow$	Cell adhesion and movement
			7	Neural regeneration, remodeling and plasticity				1	7	Invasion and metastasis
			8	Experimental morphology of the nervous system				1	$\rightarrow$	Characteristics of cancer cells
			9	Anatomical study of neuroimaging				⊢	$\rightarrow$	Cancer microenvironment
6202	Nerve anatomy/		10	Neurocytology				⊢	_	Angiogenesis
0202	Neuropathology	D	_	europathology]				⊢	-	Lymphangiogenesis
		Ь		Cellular neuropathology				-	_	Stem cells
				Molecular neuropathology				⊢	$\rightarrow$	Cellular senescence
				1 00				⊢	$\rightarrow$	
				Neurodegenerative diseases			H	⊢	$\rightarrow$	Cellular immortalization
			_	Developmental or metabolic disorders				-	$\rightarrow$	Epidemiologic study
				Demented disorders				⊢	$\rightarrow$	Biobank
			16	Cerebrovascular disorders			В	⊢	$\rightarrow$	Interaction of gene and environment
			17	Brain tumors				⊢	$\rightarrow$	Prevention and intervention study
			18	Spinal, peripheral nervous system or muscular				⊢		Chemoprophylaxis
-		_		disorders	-	-	╄	⊢		Interface of cancer research and society
			1	Molecular and cellular neurobiology				⊢	_	Genome analysis
			2	Development, differentiation, and aging				⊢	$\rightarrow$	Proteomics analysis
			3	Neurotransmitters and receptors				⊢	_	Expression analysis
			4	Intracellular signal transduction				⊢	-	Individuality diagnosis of cancer
			5	Glial cells				⊢	$\rightarrow$	Order-made medical treatment
6203	Neurochemistry/		6	Pathophysiology and therapy of	6402	Tumor		⊢	-	Drug efficacy and calculation
	Neuropharmacology			neuropsychiatric diseases		diagnostics		Ľ	7	Biomarkers
			7	Stem cell biology, regeneration, and repair				8	-	Tumor markers
			8	Neural plasticity				9	9	Molecule imaging
			9	Neuropharmacology				1	0	Epigenome
				Drug development				1	1	miRNA
			11	Genomic neuroscience				1	2	Functional RNA
								1	1	Antitumor substance research and chemical biology
Disci	ipline:Labora	to	ry a	nnimal science				2	2	Chemotherapy
Item Number	Research Field			Screening Sub-panel Number / Keyword				3	3	Molecular target therapy
			1	Environmental facilities				_	4	Endocrine therapy
			2	Infectious diseases				5	_	Drug delivery
			3	Cryopreservation				-	-	Physical therapy
			4	Biosafety				7	$\rightarrow$	Gene therapy
	Laboratory		5	Disease models				1	-	Nucleic acid therapy
6301	animal		6	Breeding genetics		Tumor		⊢	$\rightarrow$	Cell therapy
	science		7	Developmental engineering	6403	therapeutics		⊢	-	Humoral immunity
			8	Laboratory animal welfare				⊢	$\rightarrow$	Cell immunity
			9	Animal experiment technology				⊢	$\rightarrow$	Antibody therapy
			10	Bioresource for research				-	-	Immunotherapy
			11	Evaluation methods				1	$\rightarrow$	Vaccine therapy

**Discipline: Oncology** 

14 Vaccine therapy15 Adoptive immunotherapy

17 Immunosuppression18 Immune activation

16 Cytokine

11 Evaluation methods

Discipline:Genome science

Item	ipline:Genome	
Number	Research Field	Screening Sub-panel Number / Keyword
		1 Genome structural diversity
		2 Animal genome
		3 Plant genome
		4 Microbial genome
		5 Metagenome
		6 Organelle genome
		7 Genome evolution
	Genome	8 Genome architecture
6501	biology	9 Genome maintenance and repair
		10 Expression of genome function
		11 Regulation of gene expression
		12 Transcriptome
		13 Proteome
		14 Metabolome
		15 Epigenome
		16 Comparative genome
		17 Biodiversity
		1 Disease-associated gene
		2 Personalized medicine
		3 Gene diagnosis
		4 Human genome diversity
		5 Genome medicine
	Medical	6 Regenerative medicine
6502	genome	7 Genome-wide association study
	science	8 Human genome resequencing
		9 Genome of model animals
		10 Disease epigenomics
		11 Human population genetics
		12 Statistical genetics
		13 Medical informatics
		14 Human and animal bacterial flora
		1 Gene networks
		2 Protein networks
		3 Metabolic networks
		4 Development and differentiation
		5 Synthetic biology
	System	6 Database biology
6503	genome	7 Biological databases
	science	8 Modeling and simulation
		9 Bioinformatics
		10 Genome analysis technology
		11 Functional RNA
		12 Epigenomic control
		13 Genome biotechnology
		14 Genetic resources
		ation of biological resources
Item Number	Research Field	Screening Sub-panel Number / Keyword
_		1 Conservation biology
		2 Biodiversity conservation
	Consorration	3 Conservation of biological strains
CC01	Conservation	4 Conservation of genetic resources

5 Ecosystem conservation

6 Native species conservation7 Microbial culture collections8 Cell/Tissue/Seed Preservation

of biological

resources

Area: Biology

**Discipline: Biological Science** 

Item Number	Research Field	Screening Sub-panel Number / Keyword
		Chromosomal organization, function and
		segregation
		2 Epigenetics
		3 Chromatin dynamics
		4 DNA replication
		5 DNA damage and repair
6701	Molecular	6 Recombination
	biology	7 Transcription and transcriptional regulation
		8 Post-transcriptional regulation
		9 RNA
		10 Translation
		11 Post-translational modification
		12 Super-molecular complex
		1 Carbohydrate
		2 Lipid
		3 Nucleic acid
		4 Protein
		5 Enzyme
		6 Gene and chromosome
		7 Biological membrane and receptor
		8 Intercellular matrix
6702	Structural	
0702	biochemistry	
		10 Posttranslational modification
		11 Molecular recognition and interaction
		12 Denaturation and folding
		13 Structural analysis and prediction
		14 NMR
		15 Mass spectrometry
		16 X-ray crystallography
		17 High-resolution electron microscopy
		Catalytic mechanism of enzyme
		2 Regulation of enzyme
		3 Gene expression and replication
		4 Biological energy transduction
		5 Metalloprotein
		6 Biological trace element
6703	Functional	7 Hormone and bioactive substances
0703	biochemistry	8 Cell signal transduction
		9 Membrane transport and transporters
		10 Proteolysis
		11 Cytoskeleton
		12 Immunobiochemistry
		13 Glycobiology
		14 Bioelectrochemistry
		Structures, dynamics and functions of proteins
		and nucleic acids
		2 Motility/Transport
		3 Biomembranes/Receptors/Channels
		4 Photobiology
		5 Cellular signaling and dynamics
		6 Neural information processing
6704	Riophysics	
0704	Biophysics	8,7
		8 Structural biology
		9 Folding
		10 Prediction of structure and function
		Single-molecule measurements and
		manipulation
		12 Bioimaging
	1	13 Non-equilibrium/Complex systems

(Discipline: Biological Science)

Item Number	Research Field	Screening Sub-panel Number / Keyword				
		1	Cell structure and function			
		2	Biomembrane			
		3	Cytoskeleton/Cell motility			
		4	Intracellular signaling			
		5	Intercellular communication			
6705	Call biology	6	Cell cycle			
6705	Cell biology	7	Cytokinesis			
		8	Nuclear structure and function			
		9	Cell-cell interaction/Extracellular matrix			
		10	Protein degradation			
		11	Chromatin			
		12	Organella-genesis and dynamics			
		1	Cell differentiation			
		2	Stem cells			
		3	Germ layer formation and gastrulation			
	D 1	4	Organogenesis			
6706	Developmental biology	5	Fertilization			
	blology	6	Germ cells			
		7	Regulation of gene expression			
		8	Developmental genetics			
		9	Evolution and development			

Discipline:Basic biology

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Plastid function/Photosynthesis
		2	Phytohormones/Growth and
6801	Plant	2	development/Totipotency
	molecular	3	Organelles/Cell wall
	biology/Plant	4	Response to environmental factors
	physiology	5	Plant-microbe interaction/Symbiosis
		6	Metabolism
		7	Plant molecular function
		1	Animal morphology
		2	Plant morphology
		3	Microorganisms and algae morphology
	Morphology/	4	Comparative endocrinology
6802	Morphology/ Structure	5	Molecular morphology
		6	Morphogenesis and simulation
		7	Tissue construction
		8	Microstructure
		9	Microscopic techniques and imaging
	Animal	1	Metabolism
	physiology/	2	Neurobiology
6803	physiology/ Animal behavior	3	Neuroethology
		4	Behavioral physiology
	001111 7 101	5	Animal physiology and biochemistry
		1	Cytogenetics
		2	Population genetics
		3	Evolutionary genetics
		4	Human genetics
		5	Genetic diversity
	Genetics/	6	Developmental genetics
6804	Chromosome	7	Behavioral genetics
	dynamics	8	Mutagenesis
		9	Chromosome rearrangement and maintenance
		10	Model organism development
		11	Tampoon
		12	Q12 unujos
		13	Epigenetics

(Discipline:Basic biology)

Research Field   Screening Sub-panel Number / Keyword		(Discipline:Basic biology)						
Evolutionary biology  Evolutionary biology  Evolutionary biology  Evolution of multicellularity  Molecular evolution  6 Morphological evolution  7 Evolution of function  8 Evolution of genes  9 Evolutionary biology in general  10 Comparative genomics  11 Experimental evolutionary biology  2 Classification system  3 Evolution  4 Genetic diversity  5 Population/Species diversity  6 Community/Ecosystem diversity  7 Taxonomic character  8 Phylogenetics  9 Speciation  10 Natural history  11 Museum  1 Population  2 Society  3 Species interaction  4 Assemblage  5 Ecosystem  6 Evolutionary ecology  8 Natural environment  9 Physiological ecology  10 Molecular ecology		Research Field		Screening Sub-panel Number / Keyword				
Biodiversity/ Systematics  Community/Ecosystem diversity  Community/Ecosystem diversity  Taxonomic character  Phylogenetics  Speciation  Natural history  Museum  Population  Society  Speciation  Assemblage  Ecology/ Environment  Ecology/ Environment  Behavioral ecology  Natural environment  Physiological ecology  Nolecular ecology  Molecular ecology			1	Origin of life				
Evolutionary biology  Evolutionary biology  Evolution of function  Evolution of function  Evolution of function  Evolution of genes  Evolution of genes  Evolutionary biology in general  Comparative genomics  Experimental evolutionary biology  Metabolism physiology  Classification system  Evolution  Evolution of function  Experimental evolutionary biology  Classification system  Evolution  Evolution  Evolution  Evolution  Evolution of function  Experimental evolutionary biology  Classification system  Evolution  Evolution  Evolution  Evolution  Evolution  Evolution  Evolution  Formulation  Evolution  Formulation  Evolution  Formulation  Formulation  Evolution  Formulation			2	Origin of eukaryotic organisms				
Evolutionary biology   5   Molecular evolution   6   Morphological evolution   7   Evolution of function   8   Evolution of genes   9   Evolutionary biology in general   10   Comparative genomics   11   Experimental evolutionary biology   2   Classification system   3   Evolution   4   Genetic diversity   5   Population/Species diversity   6   Community/Ecosystem diversity   7   Taxonomic character   8   Phylogenetics   9   Speciation   10   Natural history   11   Museum   1   Population   2   Society   3   Species interaction   4   Assemblage   5   Ecosystem   6   Evolutionary ecology   8   Natural environment   9   Physiological ecology   10   Molecular ecolo			3	Origin of organelles				
Evolutionary biology   6   Morphological evolution   7   Evolution of function   8   Evolution of genes   9   Evolutionary biology in general   10   Comparative genomics   11   Experimental evolutionary biology   1   Metabolism physiology   2   Classification system   3   Evolution   4   Genetic diversity   5   Population/Species diversity   5   Population/Species diversity   6   Community/Ecosystem diversity   7   Taxonomic character   8   Phylogenetics   9   Speciation   10   Natural history   11   Museum   1   Population   2   Society   3   Species interaction   4   Assemblage   5   Ecosystem   6   Evolutionary ecology   7   Behavioral ecology   8   Natural environment   9   Physiological ecology   10   Molecular ecology   10   Mol			4	Origin of multicellularity				
biology    Solution of function   Evolution of function   Evolution of function   Evolution of genes   Ecology		Evolutionom	5	Molecular evolution				
Fevolution of function	6805		6	Morphological evolution				
6806 Biodiversity/ Systematics  Biodiversity/ 5 Population/Species diversity  6 Community/Ecosystem diversity  7 Taxonomic character  8 Phylogenetics  9 Speciation  10 Natural history  11 Museum  1 Population  2 Society  3 Species interaction  4 Assemblage  5 Ecosystem  6 Evolutionary ecology  7 Behavioral ecology  8 Natural environment  9 Physiological ecology  10 Molecular ecology		biology	7	Evolution of function				
10   Comparative genomics   11   Experimental evolutionary biology   1   Metabolism physiology   2   Classification system   3   Evolution   4   Genetic diversity   5   Population/Species diversity   6   Community/Ecosystem diversity   7   Taxonomic character   8   Phylogenetics   9   Speciation   10   Natural history   11   Museum   1   Population   2   Society   3   Species interaction   4   Assemblage   5   Ecosystem   Evolutionary ecology   7   Behavioral ecology   8   Natural environment   9   Physiological ecology   10   Molecular e			8	Evolution of genes				
6806 Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ 5 Population/Species diversity Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			9	Evolutionary biology in general				
6806 Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ 5 Population/Species diversity 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			10	Comparative genomics				
6806 Biodiversity/ Systematics  Biodiversity/ Systematics  Biodiversity/ Systematics  6 Community/Ecosystem diversity  7 Taxonomic character  8 Phylogenetics  9 Speciation  10 Natural history  11 Museum  1 Population  2 Society  3 Species interaction  4 Assemblage  5 Ecosystem  6 Evolutionary ecology  7 Behavioral ecology  8 Natural environment  9 Physiological ecology  10 Molecular ecology			11	Experimental evolutionary biology				
6806 Biodiversity/ Systematics  Biodiversity/ Systematics  Biodiversity/ Systematics  6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum  1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			1	Metabolism physiology				
6806 Biodiversity/ Systematics  4 Genetic diversity 5 Population/Species diversity 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum  1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			2	Classification system				
Biodiversity/ Systematics  5 Population/Species diversity 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum  1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			3	Evolution				
6806 Blodiversity/ Systematics  6   Community/Ecosystem diversity  7   Taxonomic character  8   Phylogenetics  9   Speciation  10   Natural history  11   Museum  1   Population  2   Society  3   Species interaction  4   Assemblage  5   Ecosystem  6   Evolutionary ecology  7   Behavioral ecology  8   Natural environment  9   Physiological ecology  10   Molecular ecology		D: 1: :/	4	Genetic diversity				
Systematics   6   Community/Ecosystem diversity   7   Taxonomic character   8   Phylogenetics   9   Speciation   10   Natural history   11   Museum   1   Population   2   Society   3   Species interaction   4   Assemblage   5   Ecosystem   6   Evolutionary ecology   7   Behavioral ecology   8   Natural environment   9   Physiological ecology   10   Molecular ecology			5	Population/Species diversity				
7   Taxonomic character     8   Phylogenetics     9   Speciation     10   Natural history     11   Museum     1   Population     2   Society     3   Species interaction     4   Assemblage     5   Ecosystem     6   Evolutionary ecology     7   Behavioral ecology     8   Natural environment     9   Physiological ecology     10   Molecular ecology     11   Museum     1   Population     2   Society     3   Species interaction     4   Assemblage     5   Ecosystem     6   Evolutionary ecology     7   Behavioral ecology     8   Molecular ecology     9   Molecular ecology     10   Molecular ecology     11   Museum     1   Population     2   Society     3   Species interaction     4   Assemblage     5   Ecosystem     6   Evolutionary ecology     7   Respectively     8   Molecular ecology     9   Molecular ecology     10   Mole	6806		6	Community/Ecosystem diversity				
Speciation   9   Speciation   10   Natural history   11   Museum		Systematics	7	Taxonomic character				
10   Natural history			8	Phylogenetics				
11   Museum   1   Population   2   Society   3   Species interaction   4   Assemblage   5   Ecosystem   6   Evolutionary ecology   7   Behavioral ecology   8   Natural environment   9   Physiological ecology   10   Molecular ecology			9	Speciation				
6807 Ecology/ Environment    Ecology/ Environment   6   Evolutionary ecology   7   Behavioral ecology   8   Natural environment   9   Physiological ecology   10   Molecular ecology   10   Molecula			10	Natural history				
6807 Ecology/ Environment  Ecology/ Environment  Ecology/ Environment  2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			11	Museum				
6807 Ecology/ Environment  3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			1	Population				
Ecology/ Environment  4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			2	Society				
Ecology/ Environment  5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			3	Species interaction				
6807 Environment  6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			4	Assemblage				
Environment  6 Evolutionary ecology  7 Behavioral ecology  8 Natural environment  9 Physiological ecology  10 Molecular ecology		E1/	5	Ecosystem				
7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology	6807		6	Evolutionary ecology				
9 Physiological ecology 10 Molecular ecology		Environment	7					
10 Molecular ecology			8	Natural environment				
			9	Physiological ecology				
11 Conservation ecology			10	Molecular ecology				
			11	Conservation ecology				

Discipline: Anthropology

Disci	cipline:Anthropology							
Item Number	Research Field		Screening Sub-panel Number / Keyword					
		1	Morphology					
		2	Prehistory/Chronology					
		3	Biomechanism					
		4	Molecular anthropology/Genetics					
		5	Ecology					
	Dlavoi o ol	6	Primates					
	Physical anthropology	7	Evolution					
	anunopology	8	Growth/Aging					
		9	Society					
		10	Behavior/Cognition					
		11	Reproduction/Development					
		12	Bone archaeology					
		13	Geographic diversity					
		1	Physiological anthropology					
		2	Ergonomics					
		3	Physiological polymorphism					
		4	Environmental adaptive capacity					
		5	Systemic relationship					
	Applied	6	Functional potential					
6902	anthropology	7	Techno-adaptability					
	antinopology	8	Somatometry					
		9	Clothing					
		10	Somatology/Adaptation					
		11	Constitution/Health					
		12	Forensic anthropology					
		13	Medical anthropology					

### **Area: Agricultural sciences**

Item	Research Field			ction and environmental agriculture Screening Sub-panel Number / Keyword	Item	Research Field	Т	du	ction and environmental agriculture) Screening Sub-panel Number / Keyword
Number	Research Field	Т	1	Gene expression control/Epigenomics	Number	Research Field	t	1	Plant pathogens
		F	-	Gene regulatory network				2	Nematode and parasitic higher plants
			-	Omics analysis				3	Genome
		$\vdash$	-	Transposon				4	Phylogenetic systematics/Evolution
		-		Organelle				5	Pathogenicity and virulence
		⊢		Growth/Developmental genetics				6	Resistance
		-		Genome/Chromosome analysis				7	Disease occurrence
		$\vdash$	_	Reproduction/Hybrid/Ploidy genetics				8	Diagnosis of plant diseases
		-	9	Environmental stress				9	Identification
	Science in	$\vdash$	10	Biotic stress				10	
7001	genetics and	-  -	11	Yield/Biomass			A	11	Infection • ecology • vectors
	breeding	⊢	_	Processing suitability/Quality improvement				12	
		⊢	_	Genetic/Breeding resources/Biodiversity				13	Plant pathological physiology
		⊢	_	Genetic map/QTL analysis				14	Plant-microbe interactions
		- 1-	-	Gene introduction/mutagenesis				15	Plant physiological diseases
		F	15	Genome breeding/DNA marker-assisted				16	
			16	selection				17	
		-	17	Breeding theories/Bioinformatics				<b>—</b>	RNA silencing
			.,	Genetically engineered crop					Endophyte and mycorrhizal fungus/symbiotic
			18	production/Assessment				19	bacteria
			_	Food crops				20	Agricultural chemicals and biological control
			_	Industrial crops		Plant			agents
			3	Forage and grassland crops	7004	protection		21	Drug and herbicide-resistance
			4	Biofuel plants		science		22	
		L	_	Resource plants				23	
		L	_	Cultivation/Cropping system				24	
			7	Farming system				25	Disease and insect pest management
			8	Crop quality/Palatability				26	Mite and nematode management
	Crop		9	Weed science				27	Weed management
7002	production		10	Weed control				28	Introduced plants
	science		11	Allelochemicals				29	Allelopathy
			12	Organic farming				30	Integrated pest management
			_	Environmentally friendly crop production			В	31	Insect vectors
			_	Phytoremediation				32	Insect pest population
			15	Management of uncultivated field				33	Natural enemy
			16	Soil fertility management				34	Invasive insects and pathogens
				Stress responses				35	
			-	Growth environment/Climatic variation				36	Occurrence forecast
			19	Growth forecasting/Modeling				37	Č
			1	Fruit trees				38	Environmental stress responses / tolerance
			2	Vegetable crops				39	Plant growing environment
			3	Ornamental and landscape plants				40	Physical and cultural pest control
			4	Plant production technology				41	Diseases- and insect pest-resistant crops
			5	Transgenic and molecular biological technology				42	Plant wound responses
			6	Horticultural genomics and bioinformatics				43	Insect–plant interactions
			7	Pollination/Fertilization/Embryogenesis					
				Fruit growth and ripening	Disc	cipline: Agricu	ltı	ıra	
			9	Plant growth failure and physiological disorders	Item Number	Research Field	Ĺ		Screening Sub-panel Number / Keyword
	Horticultural	L	10	Plant growth regulators				1	Plant physiology, growth and development
7003	science		11	Plant pigments, aromatic compounds, and				2	Plant nutrition and metabolism
	Scionec	L	• •	functional ingredients				3	Plant metabolic regulation
			-1		1	1	1		

DISC	ipiine: Agricui	cultural cnemistry					
Item Number	Research Field			Screening Sub-panel Number / Keyword			
			1	Plant physiology, growth and development			
			2	Plant nutrition and metabolism			
			3	Plant metabolic regulation			
			4	Plant molecular physiology			
			5	Fertilizer			
	Plant		6	Pedogenesis/Soil classification			
7101	nutrition/		7	Soil physics			
	Soil science		8	Soil chemistry			
			9	Soil organisms			
			10	Soil environment			
			11	Soil ecology			
			12	Soil fertility			
			13	Soil pollution control			

12 Environmental response and control 13 Protected horticulture and plant factory 14 Postharvest and processing technologies Stock and seed production, and plant

16 Plant hunting and plant genetic resources 17 Biometrics and horticultural robotics Horticultural well-being and horticultural

propagation

therapy

(Discipline: Agricultural chemistry )

(Dis	cipline: Agricu	ltı	ıral	
Number Number	Research Field	L		Screening Sub-panel Number / Keyword
			1	Microbial classification
			_	Fermentative production
				Microbial physiology
			_	Microbial genetics/breeding
			_	Microbial enzyme
			_	Microbial metabolism
			-	Microbial function
7102	Applied			Microbial application
/102	microbiology		_	Environmental microorganism
				Secondary metabolite production Microbial ecology
				Control of microbe
				Genetic resources
			<b>-</b>	Gene expression
			_	Metabolic engineering
				Environmental and cellular responses
			<b>-</b>	Microbial genomics
		Ī	1	Animal biochemistry
			2	Plant biochemistry
			3	Enzyme application
			4	Genetic engineering
			5	Protein engineering
			6	Structural biology
			7	Bioengineering
	Applied		8	Metabolic engineering
7103	Applied biochemistry			Enzyme chemistry
	bioeneimstry			Glycoscience / Lipid science
			_	Cell/Tissue culture
				Metabolism and physiology
				Gene expression
			_	Production of useful material
			_	Cellular response
			_	Signal transduction
		H	$\vdash$	Trace element
			_	Bioactive substance Regulator of cell function
			_	Pesticide science
				Plant growth substance
			5	Signal molecule
			_	Biosynthesis
	Biooragnic		_	Natural products chemistry
7104	chemistry		8	Chemical biology
				Physical chemistry
			_	Analytical chemistry
				Synthetic organic chemistry
				Bioregulatory chemistry
			13	Molecular recognition
			14	Structure-activity relationship
		Γ		Food chemistry
			2	Food biochemistry
			_	Food function
		1		Nutritional chemistry
				Nutritional biochemistry
_				Molecular biology of nutrition
7105	Food science	_	_	Nutrigenomics
				Food physics
				Food analysis
		2		Food engineering
				Food manufacturing/processing
			_	Food safaty
		L	13	Food safety

Research Field   Screening Sub-panel Number / Keyword	Disc	ipline: Forest a	nd f	orest products science
Forest science  Forest product education  Forest park with a park in the park	Item Number	Research Field		Screening Sub-panel Number / Keyword
Forest science			1	Ecology/Biodiversity
Forest science Forest science Forest science Forest science  Forest planning/Management  Forestoromics  Forest product deducation  Forest product education			2	Genetics/Breeding
Forest science Forest sustainable forestry Foresion control/Slope conservation and torrent disaster prevention/Revegetation Forest science Forest prevention/Plux Forest climate change/Carbon balance Forest science Fo			3	Physiology
Forest science science Forest science science Forest science Forest science science science Forest science science science Forest science scienc			4	Taxonomy
Forest science science Forest science science Forest science Forest science science science Forest science science science Forest science science science science science science science science scienc			5	Environment
Forest science Forest			6	Silviculture
Forest science Forest science Forest science Forest science    10   Policy/Economics			7	Pathology/Microorganism
Forest science  10 Policy/Economics 11 Sustainable forestry 12 Operational system/Road/Machinery 13 Erosion control/Slope conservation and torrent disaster prevention/Revegetation 14 Water resource/Hydrologic cycle 15 Material circulation/Flux 16 Climate change/Carbon balance 17 Biomass 18 Landscape ecology/Landscape design/Landscape management 19 Environmental education/Forest education 1 Wood anatomy 2 Wood formation/Physical properties 3 Cellulose/Hemicellulose 4 Lignin 5 Extractives/Bioactive component 6 Microbiology 7 Mashroom/Wood rotting fungi 8 Chemical processing/Adhesion 9 Preservation/Wood culture 10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			8	Insect/Animal
Forest science    11   Sustainable forestry   12   Operational system/Road/Machinery   Erosion control/Slope conservation and torrent disaster prevention/Revegetation   14   Water resource/Hydrologic cycle   15   Material circulation/Flux   16   Climate change/Carbon balance   17   Biomass   Landscape ecology/Landscape   design/Landscape management   19   Environmental education/Forest education   1   Wood anatomy   2   Wood formation/Physical properties   3   Cellulose/Hemicellulose   4   Lignin   5   Extractives/Bioactive component   6   Microbiology   7   Mashroom/Wood rotting fungi   8   Chemical processing/Adhesion   9   Preservation/Wood culture   10   Wood drying   11   Machining   12   Wood based material   13   Strength/Wooden construction   14   Habitability   15   Forest product education   16   Woody biomass   17   10   10   10   10   10   10   10			9	Planning/Management
science    11   Sustainable forestry		E	10	Policy/Economics
12   Operational system/Road/Machinery     13   Erosion control/Slope conservation and torrent disaster prevention/Revegetation     14   Water resource/Hydrologic cycle     15   Material circulation/Flux     16   Climate change/Carbon balance     17   Biomass     18   Landscape ecology/Landscape design/Landscape management     19   Environmental education/Forest education     1   Wood anatomy     2   Wood formation/Physical properties     3   Cellulose/Hemicellulose     4   Lignin     5   Extractives/Bioactive component     6   Microbiology     7   Mashroom/Wood rotting fungi     8   Chemical processing/Adhesion     9   Preservation/Wood culture     10   Wood drying     11   Machining     12   Wood based material     13   Strength/Wooden construction     14   Habitability     15   Forest product education     16   Woody biomass	7201		11	Sustainable forestry
disaster prevention/Revegetation  14 Water resource/Hydrologic cycle  15 Material circulation/Flux  16 Climate change/Carbon balance  17 Biomass  18 Landscape ecology/Landscape design/Landscape management  19 Environmental education/Forest education  1 Wood anatomy  2 Wood formation/Physical properties  3 Cellulose/Hemicellulose  4 Lignin  5 Extractives/Bioactive component  6 Microbiology  7 Mashroom/Wood rotting fungi  8 Chemical processing/Adhesion  9 Preservation/Wood culture  10 Wood drying  11 Machining  12 Wood based material  13 Strength/Wooden construction  14 Habitability  15 Forest product education  16 Woody biomass		science	12	Operational system/Road/Machinery
disaster prevention/Revegetation  14 Water resource/Hydrologic cycle  15 Material circulation/Flux  16 Climate change/Carbon balance  17 Biomass  18 Landscape ecology/Landscape design/Landscape management  19 Environmental education/Forest education  1 Wood anatomy 2 Wood formation/Physical properties 3 Cellulose/Hemicellulose 4 Lignin 5 Extractives/Bioactive component 6 Microbiology 7 Mashroom/Wood rotting fungi 8 Chemical processing/Adhesion 9 Preservation/Wood culture  10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			12	Erosion control/Slope conservation and torrent
15   Material circulation/Flux     16   Climate change/Carbon balance     17   Biomass     18   Landscape ecology/Landscape     design/Landscape management     19   Environmental education/Forest education     1   Wood anatomy     2   Wood formation/Physical properties     3   Cellulose/Hemicellulose     4   Lignin     5   Extractives/Bioactive component     6   Microbiology     7   Mashroom/Wood rotting fungi     8   Chemical processing/Adhesion     9   Preservation/Wood culture     10   Wood drying     11   Machining     12   Wood based material     13   Strength/Wooden construction     14   Habitability     15   Forest product education     16   Woody biomass			13	disaster prevention/Revegetation
16 Climate change/Carbon balance 17 Biomass 18 Landscape ecology/Landscape design/Landscape management 19 Environmental education/Forest education 1 Wood anatomy 2 Wood formation/Physical properties 3 Cellulose/Hemicellulose 4 Lignin 5 Extractives/Bioactive component 6 Microbiology 7 Mashroom/Wood rotting fungi 8 Chemical processing/Adhesion 9 Preservation/Wood culture 10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			14	Water resource/Hydrologic cycle
17 Biomass  Landscape ecology/Landscape design/Landscape management  19 Environmental education/Forest education  1 Wood anatomy 2 Wood formation/Physical properties 3 Cellulose/Hemicellulose 4 Lignin 5 Extractives/Bioactive component 6 Microbiology 7 Mashroom/Wood rotting fungi 8 Chemical processing/Adhesion 9 Preservation/Wood culture 10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			15	Material circulation/Flux
Landscape ecology/Landscape design/Landscape management  19 Environmental education/Forest education  1 Wood anatomy 2 Wood formation/Physical properties 3 Cellulose/Hemicellulose 4 Lignin 5 Extractives/Bioactive component 6 Microbiology 7 Mashroom/Wood rotting fungi 8 Chemical processing/Adhesion 9 Preservation/Wood culture 10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			16	Climate change/Carbon balance
18   design/Landscape management   19   Environmental education/Forest education   1   Wood anatomy   2   Wood formation/Physical properties   3   Cellulose/Hemicellulose   4   Lignin   5   Extractives/Bioactive component   6   Microbiology   7   Mashroom/Wood rotting fungi   8   Chemical processing/Adhesion   9   Preservation/Wood culture   10   Wood drying   11   Machining   12   Wood based material   13   Strength/Wooden construction   14   Habitability   15   Forest product education   16   Woody biomass   Preservation/Woods   Preservation/Woo			17	Biomass
design/Landscape management  19 Environmental education/Forest education  1 Wood anatomy 2 Wood formation/Physical properties 3 Cellulose/Hemicellulose 4 Lignin 5 Extractives/Bioactive component 6 Microbiology 7 Mashroom/Wood rotting fungi 8 Chemical processing/Adhesion 9 Preservation/Wood culture 10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			10	Landscape ecology/Landscape
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2 Wood formation/Physical properties 3 Cellulose/Hemicellulose 4 Lignin 5 Extractives/Bioactive component 6 Microbiology 7 Mashroom/Wood rotting fungi 8 Chemical processing/Adhesion 9 Preservation/Wood culture 10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			19	Environmental education/Forest education
3 Cellulose/Hemicellulose 4 Lignin 5 Extractives/Bioactive component 6 Microbiology 7 Mashroom/Wood rotting fungi 8 Chemical processing/Adhesion 9 Preservation/Wood culture 10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			1	Wood anatomy
4 Lignin 5 Extractives/Bioactive component 6 Microbiology 7 Mashroom/Wood rotting fungi 8 Chemical processing/Adhesion 9 Preservation/Wood culture 10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			2	Wood formation/Physical properties
5 Extractives/Bioactive component 6 Microbiology 7 Mashroom/Wood rotting fungi 8 Chemical processing/Adhesion 9 Preservation/Wood culture 10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			3	Cellulose/Hemicellulose
7202 Wood science  6 Microbiology 7 Mashroom/Wood rotting fungi 8 Chemical processing/Adhesion 9 Preservation/Wood culture 10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			4	Lignin
7 Mashroom/Wood rotting fungi 8 Chemical processing/Adhesion 9 Preservation/Wood culture 10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			5	Extractives/Bioactive component
8   Chemical processing/Adhesion   9   Preservation/Wood culture   10   Wood drying   11   Machining   12   Wood based material   13   Strength/Wooden construction   14   Habitability   15   Forest product education   16   Woody biomass			6	Microbiology
7202 Wood science  9 Preservation/Wood culture  10 Wood drying  11 Machining  12 Wood based material  13 Strength/Wooden construction  14 Habitability  15 Forest product education  16 Woody biomass			7	Mashroom/Wood rotting fungi
10 Wood drying 11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			8	Chemical processing/Adhesion
11 Machining 12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass	7202	Wood science	9	Preservation/Wood culture
12 Wood based material 13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			10	Wood drying
13 Strength/Wooden construction 14 Habitability 15 Forest product education 16 Woody biomass			11	Machining
14 Habitability 15 Forest product education 16 Woody biomass			12	Wood based material
14 Habitability 15 Forest product education 16 Woody biomass			13	Strength/Wooden construction
15 Forest product education 16 Woody biomass			_	-
16 Woody biomass				
17 Pulp and paper				
			17	Pulp and paper

1   Aquatic environment   2   Biological environment   3   Environmental conservation   4   Water/Sediment quality   5   Ocean/Material cycle   6   Seaweed beds/Tidal flats   7   Restoration/Regeneration   8   Environmental microbiology   A   9   Plankton   10   Nekton   11   Benthos   12   Red tide   13   Environmental toxicology   14   Aquatic ecosystem   15   Global warming   16   Biodiversity   17   Remote sensing   18   Taxonomy/Morphology   19   Ecology/Ethology   20   Bio-logging   21   Resources/Resource management   22   Fisheries   23   Aquatic halts   24   Aquatic halts   25   Aquatic halts   26   Genetics/Heredity/Breeding   27   Fish disease/Aquatic pathology   28   Fisheries Economics/Management/Marketing   31   Fisheries Conomics/Management/Marketing   31   Fisheries Development   1   Developmental biology   2   Physiology   2   Physiology   3   Immunology/Biological defense   4   Metabolism/Enzyme   5   Fish untrition   6   Biochemistry   4   Educa   4   Educa   4   Educa   5   Circle   4   Circle	for Agriculture, Forestry and Fishery tional Food Economy and Trade ment and Finance for Agriculture, y and Fishery ution of Food and Agriculture and y Products system
2   Biological environment   3   Environmental conservation   4   Water/Sediment quality   5   Ocean/Material cycle   6   Seaweed beds/Tidal flats   7   Restoration/Regeneration   8   Environmental microbiology   6   Food   7   Policy   8   International Plants   10   Policy   10   Policy   10   Policy   11   Policy   11   Policy   12   Policy   12   Policy   13   Policy   14   Agricultural   15   Global warming   16   Biodiversity   17   Remote sensing   18   Taxonomy/Morphology   19   Ecology/Ethology   20   Bio-logging   21   Resources/Resource management   22   Fisheries   23   Aquaciture   24   Aquatic enismlas   27   Fish diseases/Aquatic pathology   28   Fisheries Engineering   29   Fishing community/Fisheries Policy   30   Fisheries Education   32   Fisheries Education   33   Fisheries Education   34   Entity   35   Immunology/Biological defense   4   Metabolism/Enzyme   5   Fish mittition   6   Biochemistry   4   Educa   4   Educ	iconomy my and Planning of Rural Community shing Village lture Related Industries my of Food, Agriculture and nment colicy for Agriculture, Forestry and Fishery stional Food Economy and Trade ment and Finance for Agriculture, y and Fishery ution of Food and Agriculture and y Products system
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A gricultural science   A gricultural science   Fisheries Egoineering   29 Fisheries Egoineering   29 Fisheries Egoineering   29 Fisheries Egoineering   29 Fisheries Economics/Management/Marketing   31 Fisheries education   32 Fisheries Developmental biology   3 Fisheries Economics/Management/Marketing   31 Fisheries Developmental biology   3 Fisheries Developmental biology   3 Fisheries Developmental biology   3 Fisheries Developmental biology   3 Fisheries Developmental biology   4 Fish utrition   5 Fish nutrition   6 Fish nutrition	for Agriculture, Forestry and Fishery tional Food Economy and Trade ment and Finance for Agriculture, ry and Fishery ution of Food and Agriculture and ry Products system
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Red tide   13   Benthos   12   Red tide   13   Environmental toxicology   14   Aquatic ecosystem   15   Global warming   16   Biodiversity   17   Remote sensing   18   Taxonomy/Morphology   19   Ecology/Ethology   20   Bio-logging   21   Resources/Resource management   22   Fisheries   23   Aquatic animals   26   Genetics/Heredity/Breeding   27   Fish disease/Aquatic pathology   28   Fisheries Economics/Management/Marketing   31   Fisheries education   32   Fisheries Development   10   Developmental biology   21   Rural   22   Fixheries Policy   30   Fisheries education   32   Fisheries Development   33   Immunology/Biological defense   4   Metabolism/Enzyme   5   Fish nutrition   6   Biochemistry   4   Educa   Education   4   Educa   Education   4   Educa   4   Educa   Education   4	nent and Finance for Agriculture, y and Fishery ution of Food and Agriculture and y Products ystem
Aquatic 7301 bioproduction science    13   Benthos   12   Red tide   13   Environmental toxicology   14   Aquatic ecosystem   15   Global warming   16   Biodiversity   17   Remote sensing   18   Taxonomy/Morphology   19   Ecology/Ethology   20   Bio-logging   21   Resources/Resource management   22   Fisheries   23   Aquaculture   24   Aquatic animals   25   Aquatic plants   26   Genetics/Heredity/Breeding   27   Fishing community/Fisheries Policy   30   Fisheries Economics/Management/Marketing   31   Fisheries Development   32   Fisheries Development   33   Fisheries Development   34   Education   35   Fisheries Development   36   Fisheries Development   37   Fish untrition   38   Fisheries Development   39   Fisheries Development   30   Fisheries Development   31   Fisheries Development   32   Fisheries Development   34   Education   35   Fisheries Development   36   Fisheries Development   37   Fisheries Development   38   Fisheries Development   39   Fisheries Development   30   Fisheries Development   30   Fisheries Development   30   Fisheries Development   31   Fisheries Development   32   Fisheries Development   33   Fisheries Development   34   Fisheries Development   35   Fisheries Development   36   Fisheries Development   37   Fisheries Development   38   Fisheries Development   39   Fisheries Development   30   Fish	nent and Finance for Agriculture, y and Fishery ution of Food and Agriculture and y Products ystem
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Aquatic bioproduction science    13   Environmental toxicology   14   Aquatic ecosystem   15   Global warming   16   Biodiversity   17   Remote sensing   18   Taxonomy/Morphology   19   Ecology/Ethology   20   Bio-logging   21   Resources/Resource management   22   Fisheries   23   Aquaculture   24   Aquatic animals   25   Aquatic plants   26   Genetics/Heredity/Breeding   27   Fish disease/Aquatic pathology   28   Fisheries Economics/Management/Marketing   31   Fisheries education   32   Fisheries Development   10   Distril Fisher   11   Food 3   12   Food 3   13   Fisheries   14   Agricultural   3   Management   16   Land 1   17   Value   18   Marketing   16   Land 1   17   Value   18   Marketing   19   Management/Marketing   20   Coopedition   21   Coopedition   22   Coopedition   23   Tisheries Economics/Management/Marketing   24   Entry   25   Agricultural   3   Tisheries education   24   Entry   25   Agricultural   3   Tisheries education   32   Fisheries Development   33   Tisheries education   34   Fisheries Development   35   Tisheries education   36   Tisheries education   37   Tisheries education   38   Tisheries education   39   Tisheries education   30   Tisheries education   31   Tisheries education   32   Tisheries education   33   Tisheries education   34   Tisheries education   35   Tisheries education   36   Tisheries education   37   Tisheries education   38   Tisheries education   39   Tisheries education   30   Tisheries education   31   Tisheries education   32   Tisheries education   33   Tisheries education   34   Tisheries education   35   Tisheries education   36   Tisheries education   37   Tisheries education   38   Tisheries education   39   Tisheries education   30   Tisheries education   30   Tisheries education   31   Tisheries education   32   Tisheries education   33   Tisheries education   34   Tisheries education   35   Tisheries education   36   Tisheries education   37   Tisheries education   38   Tisheries education   39   Tisheries education   30   Tisheries education   3	vition of Food and Agriculture and Products  ystem
Aquatic Aquatic bioproduction science    14	y Products System
Aquatic Aquatic bioproduction science    14   Aquatic ecosystem   15   Global warming   16   Biodiversity   17   Remote sensing   18   Taxonomy/Morphology   19   Ecology/Ethology   20   Bio-logging   21   Resources/Resource management   22   Fisheries   23   Aquaculture   24   Aquatic animals   25   Aquatic pathology   26   Genetics/Heredity/Breeding   27   Fish disease/Aquatic pathology   28   Fisheries Engineering   29   Fishing community/Fisheries Policy   30   Fisheries Economics/Management/Marketing   31   Fisheries education   32   Fisheries Development   1   Developmental biology   2   Physiology   3   Immunology/Biological defense   4   Metabolism/Enzyme   5   Fish nutrition   6   Biochemistry   4   Educa   4	ystem
16 Biodiversity   17 Remote sensing   18 Taxonomy/Morphology   19 Ecology/Ethology   20 Bio-logging   21 Resources/Resource management   22 Fisheries   23 Aquaculture   24 Aquatic animals   25 Aquatic plants   26 Genetics/Heredity/Breeding   27 Fish disease/Aquatic pathology   28 Fisheries Engineering   29 Fishing community/Fisheries Policy   30 Fisheries Development   31 Fisheries ducation   32 Fisheries Development   4 Metabolism/Enzyme   5 Fish nutrition   6 Biochemistry   4 Educa   4 E	<u> </u>
science   17 Remote sensing   7401   management and economy   13 Management and economy   14 Assess Agricus   15 Management   15 Management   16 Land   17 Value   18 Market   19 Management   18 Market   19 Management   10	-f-4 1 D:-1- M
science   17 Remote sensing   18 Taxonomy/Morphology   19 Ecology/Ethology   20 Bio-logging   21 Resources/Resource management   22 Fisheries   23 Aquaculture   24 Aquatic animals   25 Aquatic plants   26 Genetics/Heredity/Breeding   27 Fish disease/Aquatic pathology   28 Fisheries Engineering   29 Fishing community/Fisheries Policy   30 Fisheries Economics/Management/Marketing   31 Fisheries education   32 Fisheries Development   25 Agrict   27 Entry   28 Agrict   28 Entry   29 Fishing community/Fisheries Policy   27 Entry   28 Fisheries education   29 Fisheries Development   20 Entry   27 Entry   28 Entry   29 Entry	afety and Risk Management
18 Taxonomy/Morphology   19 Ecology/Ethology   20 Bio-logging   21 Resources/Resource management   15 Management   22 Fisheries   16 Land   17 Value   18 Market   19 Management   18 Market   19 Management   18 Market   19 Management   19 Management   19 Management   19 Management   19 Management   10 Development   10 Development   10 Development   11 Development   12 Development   12 Development   12 Development   13 Direct   14 Assess   15 Management   16 Land   17 Value   18 Market   19 Management   19 Management   19 Management   19 Management   10 Development   10 Development   10 Development   10 Development   10 Development   10 Development   11 Development   12 Development   12 Development   13 Direct   14 Development   15 Direct	ement in Agriculture, Forestry and
20 Bio-logging 21 Resources/Resource management 22 Fisheries 23 Aquaculture 24 Aquatic animals 25 Aquatic plants 26 Genetics/Heredity/Breeding 27 Fish disease/Aquatic pathology 28 Fisheries Engineering 29 Fishing community/Fisheries Policy 30 Fisheries Economics/Management/Marketing 31 Fisheries education 32 Fisheries Development 1 Developmental biology 2 Physiology 3 Immunology/Biological defense 4 Metabolism/Enzyme 5 Fish nutrition 6 Biochemistry  1 Saquaculture 1 Land 1 16 Land 1 17 Value 18 Marke 19 Management 10 Management	/
20 Bio-logging 21 Resources/Resource management 22 Fisheries 23 Aquaculture 24 Aquatic animals 25 Aquatic plants 26 Genetics/Heredity/Breeding 27 Fish disease/Aquatic pathology 28 Fisheries Engineering 29 Fishing community/Fisheries Policy 30 Fisheries Economics/Management/Marketing 31 Fisheries education 32 Fisheries Development 4 Developmental biology 2 Physiology 3 Immunology/Biological defense 4 Metabolism/Enzyme 5 Fish nutrition 6 Biochemistry  1 Developmental biology 4 Educa 15 Management 16 Land 17 Value 18 Marke 19 Management 19 Management 10 Pospin Agriculture 10 Land 10 Lan	ment of Technology and Knowledge in
22 Fisheries 23 Aquaculture 24 Aquatic animals 25 Aquatic plants 26 Genetics/Heredity/Breeding 27 Fish disease/Aquatic pathology 28 Fisheries Engineering 29 Fishing community/Fisheries Policy 30 Fisheries Economics/Management/Marketing 31 Fisheries education 32 Fisheries Development 4 Developmental biology 2 Physiology 3 Immunology/Biological defense 4 Metabolism/Enzyme 5 Fish nutrition 6 Biochemistry  1 Busing 16 Land 17 17 Value 18 Market 19 Management 10 Cooper 21 Drivir 22 Drivir 23 Inform 24 Entry 25 Agricu 26 Rural 27 Fish nutrition 30 Fisheries ducation 40 Education 41 Education 42 Education 43 Direct 44 Education 44 Education 45 Education 46 Education 47 Education 48 Education 48 Education 49 Education 40 Education 41 Education 41 Education 41 Education 42 Education 43 Education 44 Education 45 Education 46 Education 46 Education 47 Education 48 Education 59 Education 50 Education 51 Education 51 Education 52 Education 53 Education 54 Education 55 Education 56 Education 57 Education 57 Education 57 Education 57 Education 58 Education 59 Education 50 Education 51 Education 52 Education 53 Education 51 Education 51 Education 51 Education 52 Education 53 Education 51 Education 52 Education 53 Education 54 Education 55 Education 57 Education 57 Education 57 Education 57 Education 5	lture, Forestry and Fishery
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24 Aquatic animals 25 Aquatic plants 26 Genetics/Heredity/Breeding 27 Fish disease/Aquatic pathology 28 Fisheries Engineering 29 Fishing community/Fisheries Policy 30 Fisheries Economics/Management/Marketing 31 Fisheries education 32 Fisheries Development 4 Developmental biology 2 Physiology 3 Immunology/Biological defense 4 Metabolism/Enzyme 5 Fish nutrition 6 Biochemistry  1 Value 18 Market 19 Management 20 Cooped 20 Cooped 21 Organ 21 Organ 22 Organ 22 Organ 22 Organ 23 Inform 24 Entry 25 Agricut 24 Entry 26 Organ 27 Organ 27 Organ 28 Organ 29 Organ 29 Organ 29 Organ 20	ss
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29 Fishing community/Fisheries Policy 30 Fisheries Economics/Management/Marketing 31 Fisheries education 32 Fisheries Development 1 Developmental biology 2 Physiology 3 Immunology/Biological defense 4 Metabolism/Enzyme 5 Fish nutrition 6 Biochemistry  2 Inform 24 Entry 25 Agricu 2 Rural 2 Rural 3 Direct Consultation 3 Consultation 4 Education 4 Education 4 Education 5 Entry 4 Education 5 Entry 5 Entry 6 Education 7 Entry 7 Ent	rative Farming in Community
29 Fishing community/Fisheries Policy 30 Fisheries Economics/Management/Marketing 31 Fisheries education 32 Fisheries Development 1 Developmental biology 2 Physiology 3 Immunology/Biological defense 4 Metabolism/Enzyme 5 Fish nutrition 6 Biochemistry  and Fi 22 Drivir 23 Inform 24 Entry 25 Agricu 2 Rural 2 Rural 3 Direct Consu	zational Support to Agriculture, Forestr
31 Fisheries education 32 Fisheries Development 24 Entry 1 Developmental biology 2 Physiology 3 Immunology/Biological defense 4 Metabolism/Enzyme 5 Fish nutrition 6 Biochemistry  23 Inform 24 Entry 25 Agricu 2 Rural 2 Rural 3 Direct Consu	
32 Fisheries Development   24 Entry   1 Developmental biology   25 Agricu   2 Physiology   1 Rural   3 Immunology/Biological defense   4 Metabolism/Enzyme   3 Direct   5 Fish nutrition   3 Consultation   6 Biochemistry   4 Educa   4 Educa   4 Educa   4 Educa   5 Fish nutrition   4 Educa   5 Fish nutrition   5 Fish nutrition   5 Fish nutrition   6 Biochemistry   5 Fish nutrition   6 Biochemistry   6 Fish nutrition   7 Fish nut	g Force for Management
1 Developmental biology 2 Physiology 3 Immunology/Biological defense 4 Metabolism/Enzyme 5 Fish nutrition 6 Biochemistry  2 Agrica 1 Rural 2 Rural 2 Rural 3 Direct Consu	ation System for Food and Agriculture
2 Physiology 3 Immunology/Biological defense 4 Metabolism/Enzyme 5 Fish nutrition 6 Biochemistry  1 Rural 2 Rural Direct Consu	of Enterprise into Agriculture
3 Immunology/Biological defense 4 Metabolism/Enzyme 5 Fish nutrition 6 Biochemistry  2 Rural Direct Consu	ltural Extension
4 Metabolism/Enzyme 5 Fish nutrition 6 Biochemistry  3 Direct Consu	
5 Fish nutrition 6 Biochemistry  Consul	Linkage with Production and
6 Biochemistry 4 Educa	mption in Local Area
	ion for Food and Agriculture
	in Rural Community and NPO
	tion between Urban and Rural Inhabitar
	n Participation in Agriculture and Socia
10 Bioengineering Agricultural 7 Activi	
	and Culture in Rural Community
12 Glycobiology 7402 rural society 9 Multip	le Functions in Agriculture and Rural
13   Chemical biology     and	
7302 Aquatic life   14 Biomimetics   development   10 Agricu	ltural History and Comparison on
science   15 Bioactive substance   Government   Farmi	ng System
	gy and Ethics in Agriculture
	tional Agriculture
	tional Development for Rural unity and Fishing Village
	Management for Rural Development
	ion and Transfer on Technology
	Transition
23 Food hygiene and sanitation 17 Comm	
24 Aquatic biotoxin	
25 Food safety	0115
26 Zero emission	
26 Zero emission 27 Aquatic biomass utilization 28 Bioenergy	

Disci	oline: Agro-engineering						
Item Number	Research Field	Ì		Screening Sub-panel Number / Keyword			
			1	Irrigation and drainage			
			2	Reclamation and conservation of agricultural land			
			3	Rural planning			
				Rural environment			
			5	Rural landscape and ecosystem			
			6	Rural development and sustainability			
			7	Material and energy cycle management			
			8	Water resources			
				Renewable Energy			
	Rural			Rural governance			
	environmental		11	Disaster prevention			
7501	engineering/			Soil environmental conservation			
	Planning		13	Agricultural facilities and stock management			
				Rural roads			
				Rural sewerage			
				International agriculture and rural development			
				Hydraulics			
				Hydrometeorology			
				Water environment			
				Soil physics			
			_	Soil mechanics			
				Applied mechanics			
				Design and construction materials			
				Bioproduction system			
				Bioproduction machinery			
		Α		Greenhouse horticulture/Plant factory			
				Environment control in biology			
				Bioprocessing			
				Agricultural production environment			
				Agricultural meteorology/Micrometeorology			
				Meteorological disasters			
				Global environment and global warming			
				Environmental remediation and greening process			
				Renewable energy Farming technology management			
				Agricultural labour science			
				Postharvest engineering			
	Agricultural			Supply chain management			
	environmental engineering/	H		Bioinstrumentation			
7502	Agricultural			Cell measurement techniques			
	information			Nondestructive measurement			
	engineering		_	Imaging analysis			
				Environmental stresses			
			_	Biosensing			
				Image information and image recognition			
				Agribioinformatics			
		В		Remote sensing			
		ĺ		Geographic information system			
				Modeling/Simulation			
				Computer network and ICT			
				Agricultural robotics			
				Precision agriculture			
				Bioenvironmental information			
				Agricultural information			
			_	Farming information			
	0	_		J			

Discipline: Animal life science

Disc	scipline: Animal life science					
Number	Research Field			Screening Sub-panel Number / Keyword		
			1	Breeding		
		١.		Reproduction		
		A	3	Nutrition/Feeding Feed/Feedstuff		
				Metabolism/Endocrine control		
		H		Animal hygiene		
			7	Animal management/Welfare		
	Animal			Environment		
7601	production		_	Facilities/Production system		
	science			Grassland/Pasture		
		В	11	Grazing		
			12	Animal product		
				Manure management		
				Livestock biomass		
				Livestock farming		
		L		Marketing of livestock products		
				Pathology		
				Pathophysiology		
				Pharmacology Towicology		
				Toxicology Pathogenic microorganism		
		A		Zoonosis		
				Parasitology		
				Veterinary public health		
	<b>3</b> 7-4			Epidemic prevention		
7.00	Veterinary			Epidemiology		
/602	medical science			Internal medicine		
	science		12	Surgery		
		В	13	Veterinary reproduction/Obstetrics		
				Diagnostics/Laboratory examination		
				Clinical pathology		
				Therapy/Nursing		
				Disease prevention and control		
				Anesthesia/Analgetics Radiology		
				Animal welfare/Ethics		
		H		Physiology		
				Histology		
				Anatomy		
			_	Endocrinology		
			5	Cellular function		
			6	Immunology		
			7	Host defense		
		A	8	Genetics		
				Epigenetics		
				Genome		
				Development/Differentiation		
				Bioinformatics		
	Integrative			Ecology		
7603	animal			Ethology		
	science	H		Psychology Genetic engineering		
				Cellular engineering		
				Developmental biotechnology		
				Stem cell		
				Regenerative therapy		
				Imaging		
		В		Wildlife		
				Experimental animal		
			24	Animal models of disease		
			25	Companion animal		
			26	Animal-assisted therapy		
			27	Bioresource Biodiversity		

Disc	ipline: Bound:	ar	y aş	griculture
Item Number	Research Field			Screening Sub-panel Number / Keyword
			1	Insect technology and biomaterial production
			2	Sericulture, silk
			3	Insect pathology
			4	Entomopathogenic microbes and viruses
			5	Insect ecology
			6	Insect physiology and biochemistry
			7	Insect molecular biology
			8	Insect behavior
			9	Insect population, community
			10	Insect evolution and systematics
7701	Insect science		11	Insect genetics and genomics
			12	Insect development and reproduction
			13	Life history, seasonal adaptation
			14	Chemical ecology
			15	Chemical and physical communications
			16	Symbiosis, parasitism
			17	Spiders, mites, nematodes
				Apiculture
				Pollination
			20	Social insects
			21	Insect mimetics
		T	1	Biomass
			2	Biological environment
			3	Genetic resource
			4	Biodiversity
				Environmental analysis
		A	6	Environmental remediation
			7	Environmental purification
			8	
			9	
				Ecosystem services
				Resources-Environment balance
				Resource recycling systems
				Environmental value-assessment
				Low-carbon society
				LCA
			_	Environmentally friendly agriculture
				Watershed management
	Environmental		_	Integrated agriculture and fisheries
	agriculture			Regional agriculture
7702	(including			Landscape design
7702	landscape			Landscape architecture
	science)		22	
	,			Landscape formation/Landscape conservation
				Cultural landscape
				Nature conservation/Nature restoration
				Urban environmental design
			_	Natural environmental assessment
				Biotope  Dublic interest functions of acceptations
		В		Public interest functions of ecosystem
				Landscape ecology
			31	
		1	32	chercher armangaran
		1		Urban park/Disaster prevention park
			34	- · · · · · · · · · · · · · · · · · · ·
			35	6 . 6 6
			36	
			37	
			38	
	1	L	39	Social and environmental contribution green

(Discipline: Boundary agriculture )

Item	erprine. Bounda	1 J UE	
Number	Research Field		Screening Sub-panel Number / Keyword
		1	Cell biology
		2	Chromosome engineering
		3	Glycosylation engineering
		4	Organelle engineering
		5	Cell / Tissue engineering
		6	Epigenetics
		7	Gene expression
		8	Development/Differentiation control
	Applied	9	Cell-cell interaction
7703	molecular	10	Intermolecular interaction
1103	and cellular	11	Biological interaction
	biology	12	Biosensor
		13	Cellular function
		14	Molecular imformation
		15	Functional-molecule design
		16	Proteomics
		17	Metabolomics
		18	Production of useful material
		19	Culture engineering
		20	Biologics

## Area: Medicine, dentistry, and pharmacy

**Discipline: Pharmacy** 

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Item	Research Field	icj_	Caraaning Cub manal Number / Varyuard
Number	Research Field	٠,	Screening Sub-panel Number / Keyword
		1	Organic chemistry
		2	Synthetic organic chemistry
	Chemical	3	Biomolecules
7801	pharmacy		Natural products chemistry
	pharmacy	5	Mechanistic organic chemistry
		6	Heterocyclic chemistry
		7	Asymmetric synthesis
		1	Physical chemistry
		2	Analytical chemistry
		3	Galenical pharmacy
		4	Biophysical chemistry
	DI1	5	Isotope pharmacentical chemistry
7802	Physical		Biocomplex chemistry
	pharmacy	7	Molecular structure science
		8	Structural biology
		9	Imaging
			Drug delivery
			Information science
		_	Biochemistry
			Molecular biology
			Immunology
	Distantant		
7803	Biological		Cell biology
	pharmacy		Developmental biology
			Functional genomics
			Physiological chemistry
			Endocrinology
			Pharmacology
			Analytical pharmacology
		3	Neurobiology
7804	Pharmacology	4	Drug therapeutics
7004	in pharmacy	5	Cellular signal transduction
		6	Toxicology and drug safety
		7	Systems pharmacology
		8	Pharmacogenomics
		1	Pharmacognosy
		2	Medicinal resources
		3	Natural medicines
		4	Traditional Chinese-Japanese medicines
7805	Natural	5	Ethnomedicines
	medicines	6	Biosynthesis
		7	Antibiotics and microbial medicines
		8	Bioactive natural compounds
			Medicinal foods
			Medicinal chemistry
			Medicinal molecular design
	Drug		Lead discovery Functional science of medicinal molecules
7806	development	-	
	chemistry	5	Genomic drug development
			Regulatory science
		7	Chemical biology
		8	Biopharmaceutical
		1	Environmental hygiene
			Environmental chemistry
			Environmental dynamics
	Environmental	4	Food hygienics
7807	and hygienic		Chemical nutrition
/60/	pharmacy	6	Microbiology and infectious diseases
	рпаннасу		Toxicology
		8	Environmental toxicology
		9	Cosmetic and fragrance science
		10	Hygienic tests

(DIS	cipline: Pharma	ac	acy)				
Item Number	Research Field			Screening Sub-panel Number / Keyword			
			1	Pharmacokinetics			
			2	Drug metabolism			
		1	3	Transporter			
			4	Screening system for pharmacokinetics and			
			۲	metabolism			
			5	Prediction system for human pharmacokinetics			
			,	and metabolism			
7808	Medical		6	Clinical chemistry			
7000	pharmacy		7	Personalized medicine			
			8	Clinical pharmaceutical sciences			
			9	Medical pharmaceutics			
			10	Drug information and clinical toxicology			
		2	11	Drug economics			
			12	Social pharmacy			
			13	Hospital pharmacy and pharmacy administration			
			14	Clinical pharmacy education			

]	Disci	ipline: Basic n	ne	dici	ne
	Item Number	Research Field			Screening Sub-panel Number / Keyword
				1	Gross anatomy
				2	Functional anatomy
				3	Clinical anatomy
			1	4	Comparative anatomy
				5	Radiological anatomy
		General anatomy		6	Morphogenesis and embryogenesis
				7	Teratology
					Experimental morphology
	7901	(including		9	Anatomical education
		histology/		10	Cytology
		embryology)		11	Histology
				12	Cell differentiation and tissue formation
			2	13	Cell function and morphology
			_	14	Ultrastructural morphology
				15	Molecular morphology
				16	Histocytochemistry
1				17	Microscopic technology
				1	Molecular and cellular physiology
				2	Biological membrane, channel, transporter
				4	and active transport
				3	Receptor and intracellular signal transduction
				4	Stimulation-secretion coupling
				5	Epithelial function
				6	Heredity, fertilization, development and
					differentiation
				7	Cellular proliferation and cell death
				8	Cellular motility, morphogenesis and
				O	intercellular interaction
	7902	General		9	Microcirculation, peripheral circulation,
	1702	physiology			circulation dynamics and regulation
				10	Ventilation mechanics, blood gas function and
_				10	respiratory control
				11	Gastrointestinal motility, absorption and
				••	digestion
				12	Renal function, body fluids, and acid-base
				12	balance
					Blood coagulation and rheology
					Pathophysiology
					System physiology and physiome
1					Comparative, developmental and genome physiology
				17	Muscular physiology

(Discipline: Basic medicine)

	cipline: Basic	IIIC	carc	
Number	Research Field	H	1	Screening Sub-panel Number / Keyword
				Environmental physiology
				Physical medicine
				Nutritional physiology
	Environmental		_	Adaptive and associative physiology
	physiology			Biorhythm
	(including			Growth, development, and aging
7903	physical		_	Stress
	medicine and			Space medicine
	nutritional		_	Behavioral physiology
	physiology)			Biological clock
				Hyperthermia physiology
				Feeding regulation
			_	Sleep and arousal
				Reproductive physiology
				Kidney
			2	Smooth muscle and skeletal muscle
			3	Gastrointestinal
			_	Inflammation and immunity
			5	Bioactive substance
				Central nervous system and peripheral nerve
7904	General		7	Spinal cord and pain
, , , 0-1	pharmacology		8	Receptor, channel, transport system, and signal
				transduction system
				Cardiovascular system and hematology
			10	Drug discovery and pharmacogenomics
			11	Drug therapy and toxicology
			12	Herbal medicine and pharmacology of
			12	natural products
			1	Biomolecular medicine
			2	Cellular biochemistry (cellular medical chemistry)
	C 1			Genomic biochemistry (genomic medical chemistry)
5005	General			Developmental medicine
7905	medical		5	Regenerative medicine
	chemistry		6	Aging medicine
			7	Higher order life sciences
			8	Intracellular signaling
			1	Abnormal metabolism
	Pathological		2	Molecular pathogenesis
7906	medical			Molecular and gene diagnosis
	chemistry			Molecular oncology
			5	Molecular pathogenesis of nutrition
		T	1	Medical genome science
			2	Molecular genetics
			_	Cytogenetics
				Genetic biochemistry
7907	Human		5	Genetic epidemiology
	genetics		_	Genetic diagnostics
			7	Gene therapy
1	I	1	_	Social genetics
l				1
			9	Epigenetics
		1	9	Epigenetics Digestive system and salivary gland
		1	9 1 2	Epigenetics Digestive system and salivary gland Urogenital and endocrine organs
		1	9 1 2 3	Epigenetics Digestive system and salivary gland Urogenital and endocrine organs Brain and nervous system
			9 1 2 3 4	Epigenetics Digestive system and salivary gland Urogenital and endocrine organs Brain and nervous system Respiratory and mediastinal organs
		1 2	9 1 2 3 4 5	Epigenetics Digestive system and salivary gland Urogenital and endocrine organs Brain and nervous system Respiratory and mediastinal organs Cardiovascular system
7909	Human		9 1 2 3 4 5 6	Epigenetics Digestive system and salivary gland Urogenital and endocrine organs Brain and nervous system Respiratory and mediastinal organs Cardiovascular system Bone, joint, muscle, skin and sense organs
7908	Human pathology		9 1 2 3 4 5 6 7	Epigenetics Digestive system and salivary gland Urogenital and endocrine organs Brain and nervous system Respiratory and mediastinal organs Cardiovascular system Bone, joint, muscle, skin and sense organs Blood
7908			9 1 2 3 4 5 6 7 8	Epigenetics Digestive system and salivary gland Urogenital and endocrine organs Brain and nervous system Respiratory and mediastinal organs Cardiovascular system Bone, joint, muscle, skin and sense organs Blood Diagnostic pathology
7908			9 1 2 3 4 5 6 7 8	Epigenetics  Digestive system and salivary gland Urogenital and endocrine organs Brain and nervous system Respiratory and mediastinal organs Cardiovascular system Bone, joint, muscle, skin and sense organs Blood Diagnostic pathology Diagnostic cytopathology
7908			9 1 2 3 4 5 6 7 8 9	Epigenetics Digestive system and salivary gland Urogenital and endocrine organs Brain and nervous system Respiratory and mediastinal organs Cardiovascular system Bone, joint, muscle, skin and sense organs Blood Diagnostic pathology Diagnostic cytopathology Diagnostic molecular pathology
7908		2	9 1 2 3 4 5 6 7 8 9 10	Epigenetics Digestive system and salivary gland Urogenital and endocrine organs Brain and nervous system Respiratory and mediastinal organs Cardiovascular system Bone, joint, muscle, skin and sense organs Blood Diagnostic pathology Diagnostic cytopathology Diagnostic molecular pathology Diagnostic immunopathology
7908		2	9 1 2 3 4 5 6 7 8 9 10 11	Epigenetics Digestive system and salivary gland Urogenital and endocrine organs Brain and nervous system Respiratory and mediastinal organs Cardiovascular system Bone, joint, muscle, skin and sense organs Blood Diagnostic pathology Diagnostic cytopathology Diagnostic molecular pathology

(Dis	cipline: Basic 1	me	dic	ine)
Item Number	Research Field	Γ		Screening Sub-panel Number / Keyword
			1	Cell injury
			2	Tumors
		1	3	Genetic disorders
			4	Environmental diseases
			5	Regenerative medicine
7909	Experimental		6	Inflammation
7909	pathology		7	Hemodynamic disorders
			8	Immune diseases
		2	9	Infectious diseases
			_	Metabolic diseases
			11	Pediatric pathology
			12	Animal models
			1	Helminth
			2	Protozoa
			3	Arthropod vector
	Parasitology		4	Pathogenic animals
7910	(including		5	International health
	sanitary		6	Molecules and cells
	zoology)		7	Development and genetics
			8	Epidemiology
			9	Diagnosis and treatment
			10	Prevention and control
			1	Genomes and genetics
			2	Structure and physiology
			3	Classification
	Bacteriology		4	Pathogenicity
7911	(including		5	Toxins and effectors
	mycology)		6	Drug resistance
			7	Epidemiology
			8	Diagnosis and treatment
		Ļ	9	Prevention and control
			1	Molecules and structure
			2	Cells and replication
7012	X 7' 1		3	Organisms and pathogenicity
7912	Virology		4	Epidemiology
			5	Diagnosis and treatment
			6	Prevention and control
<u> </u>		$\vdash$	7	Prions
		1	2	Cytokines Signal transduction
		1	3	Antibodies and complements
		1	-	-
		1		Innate immunity Acquired immunity
		1	6	Mucosal immunity
		1	7	
7913	Immunology	1	8	Immunological memory Immune tolerance and autoimmunity
1713	Immunology	1	9	
		1		Immune surveillance and tumor immunology Immunodeficiency
		1		Allergy and immune-related disorder
		1		Infection immunity
		1		Inflammation
		1		Immunoregulation and transplantation
		1	14	immunology
	l .	1_		Immunology

Discipline: Boundary medicine

Disc	ipline: Bounda	ıry	ry medicine				
Item Number	Research Field	Screening Sub-panel Number / Keyword					
			1	Bioethics			
	Medical sociology		2	Medical, Dental and Pharmaceutical Education			
8001			3	Medical history			
			4	Health economics			
			5	Medical behavioral science			

(Discipline: Boundary medicine)

Item	cipline: Bound			
Number	Research Field	-		Screening Sub-panel Number / Keyword
			_	Clinical pharmacology
			-	Clinical trials and ethics
				Pharmaceutical therapeutics
				Adverse drug reaction and drug interaction
				Drug transport mechanism
				Pharmacogenomics
	Applied		7	Clinical isotope pharmacy
8002	pharmacology		8	Medical devices and pharmacy
	pharmacology		9	Drug metabolic enzyme and tranporter
			10	Imaging
			11	Research using human tissue
			12	Drug dependence and drug sensitivity
				Genetic diagnosis and gene therapy
				Drug delivery
				Pharmacoepidemiology
		T		Clinical laboratory medicine
				Clinical pathology
		1		Clinical chemistry
		ĺ		Immunology and serology
	Laboratory	1		Clinical laboratory system
8003	Laboratory medicine	H		
	medicine	1		Genetic testing
		_	_	Clinical microbiology
		2		Laboratory oncology
				Clinical hematology
		L		Physiological laboratory testing
				Medical Physics
				Radiological Technology and Science
				Radiological Technology and Engineering
			4	Radiological Diagnostic Technology
	Medical		5	Radiological Therapeutic Technology
8005	Physics and		6	Nuclear Medicine Physics
8003	Radiological		7	Medical Imaging Physics and Engineering
	Technology		8	Medical Imaging Informatics
			9	Radiation Measurement Technology
			10	Particle Radiation Therapeutics
				Accelerator Engineering
		L		Radiation Protection Technology
				Evaluation methods of pain
				Epidemiology of pain
				Analgesic
				Non-drug therapy
		1		Pain producing substance (PPS), Algesic substance
				Generating or exacerbating mechanism of pain
			7	Neural mechanism of pain
		1	8	Hyperalgesia
		ı	9	Genetic factors of pain
			10	Development or aging factors of pain
				Development or aging factors of pain  Gender difference in pain
			11	
			11 12	Gender difference in pain Pain withdrawal reflex
8004	Pain science		11 12 13	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia
8004	Pain science		11 12 13 14	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor
8004	Pain science		11 12 13 14 15	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor Histopathic pain, Histotoxic pain
8004	Pain science		11 12 13 14 15 16	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor Histopathic pain, Histotoxic pain Neuropathic pain, Neuralgia
8004	Pain science		11 12 13 14 15 16	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor Histopathic pain, Histotoxic pain Neuropathic pain, Neuralgia Psychological pain
8004	Pain science		11 12 13 14 15 16 17	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor Histopathic pain, Histotoxic pain Neuropathic pain, Neuralgia Psychological pain Itching, pruritus
8004	Pain science		11 12 13 14 15 16 17 18	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor Histopathic pain, Histotoxic pain Neuropathic pain, Neuralgia Psychological pain Itching, pruritus Epidemiology of itching, or pruritus
8004	Pain science		11 12 13 14 15 16 17 18 19 20	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor Histopathic pain, Histotoxic pain Neuropathic pain, Neuralgia Psychological pain Itching, pruritus Epidemiology of itching, or pruritus Antipruritics
8004	Pain science		11 12 13 14 15 16 17 18 19 20 21	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor Histopathic pain, Histotoxic pain Neuropathic pain, Neuralgia Psychological pain Itching, pruritus Epidemiology of itching, or pruritus Antipruritics Itch-producing substances
8004	Pain science		11 12 13 14 15 16 17 18 19 20 21 22	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor Histopathic pain, Histotoxic pain Neuropathic pain, Neuralgia Psychological pain Itching, pruritus Epidemiology of itching, or pruritus Antipruritics Itch-producing substances Generating or exacerbating mechanism of pruritus
8004	Pain science		11 12 13 14 15 16 17 18 19 20 21 22 23	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor Histopathic pain, Histotoxic pain Neuropathic pain, Neuralgia Psychological pain Itching, pruritus Epidemiology of itching, or pruritus Antipruritics Itch-producing substances Generating or exacerbating mechanism of pruritus Neural mechanism of pruritus
8004	Pain science		11 12 13 14 15 16 17 18 19 20 21 22 23 24	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor Histopathic pain, Histotoxic pain Neuropathic pain, Neuralgia Psychological pain Itching, pruritus Epidemiology of itching, or pruritus Antipruritics Itch-producing substances Generating or exacerbating mechanism of pruritus Neural mechanism of pruritus Curettage behavior
8004	Pain science		11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor Histopathic pain, Histotoxic pain Neuropathic pain, Neuralgia Psychological pain Itching, pruritus Epidemiology of itching, or pruritus Antipruritics Itch-producing substances Generating or exacerbating mechanism of pruritus Neural mechanism of pruritus Curettage behavior Hyperknesis
8004	Pain science		11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Gender difference in pain Pain withdrawal reflex Numbness, Hypesthesia Nociceptor Histopathic pain, Histotoxic pain Neuropathic pain, Neuralgia Psychological pain Itching, pruritus Epidemiology of itching, or pruritus Antipruritics Itch-producing substances Generating or exacerbating mechanism of pruritus Neural mechanism of pruritus Curettage behavior

Number	Research Field	L		Screening Sub-panel Number / Keyword
			1	Epidemiology
			2	Clinical epidemiology
		1	3	Clinical trial
			4	Environmental epidemiology
	Epidemiology		5	Molecular genetic epidemiology
8101	and		6	Preventive medicine
8101	preventive		7	Medical examination
	medicine		8	Screening
		2	9	Clinical statistics
			10	Mass-screening
			11	Health management
			12	Health promotion
			1	Molecular preventive medicine
			2	Molecular epidemiology
		1	3	Food sanitation
		1	4	Environmental health
			5	Occupational health
			6	Environmental toxicology
	Hygiene and		7	Community health
8102	public health			Community medicine
	public fleatur		9	Maternal and child health
			10	Adult health
		2	11	Elderly health
			12	Global Health
			13	Health administration
				Health policy
			15	Care and welfare
			1	Hospital management
			2	Medical administration
	Medical and			Medical informatics
8103	hospital		4	Quality of medical care
0105	management		5	Medical record management
	management		6	Risk management
			7	Nosocomial infection management
			8	Critical path
			_	Forensics
			2	Forensic examination
8104	Legal		3	Alcohol research
0104	medicine		4	Forensic odontology
			5	DNA polymorphism
		L	6	Forensic pathology

Discipline: Clinical internal medicine

-	ipinie: Cinnea		1110	
Item Number	Research Field	L		Screening Sub-panel Number / Keyword
			1	Psychosomatic internal medicine
	General		2	Stress science
	internal		3	Oriental medicine
8201	medicine		4	Alternative medicine
0201	(including		5	Palliative medicine
	psychosomati		6	General medicine
	c medicine)		7	Primary care
			8	Geriatrics
		1	1	Upper gastroenterology (esophagus, stomach,
		1	1	duodenum)
0202	Gastroenterology	2	2	Lower gastroenterology (small intestine, colon)
8202	Gastroenterology	3	3	Hepatology
		4	4	Biliary-Pancreatology
		5	5	Digestive endoscopy
		1	1	Clinical Cardiology
9202	Cardiovascular	2	2	Clinical Angiology
6203	medicine	3	3	Molecular Cardiology
		4	4	Molecular Angiology
8204	Respiratory organ	1	1	Clinical respirology
0204	internal medicine	2	2	Molecular and cellular respirology
	Kidney	1	1	Nephrology
8205	internal		2	Hypertension
0203	medicine	2	3	Water and electrolyte metabolism
	medicine		4	Hemodialysis

(Discipline: Clinical internal medicine)

(Dis	cipline: Clinica	ìl i	ınte	
Number	Research Field	L		Screening Sub-panel Number / Keyword
		1	1	Molecular pathophysiology
		2		Neuroimmunology
000	N. 1	L	3	Clinical molecular neurogenetics
8206	Neurology		4	Clinical neurophysiology
		3		Clinical neuromorphology
				Clinical neuropsychology
		L	7	Functional neuroimaging
		1	1	Disturbances of energy and carbohydrate metabolism
			2	Metabolic syndrome
8207	Metabolomics	_	3	Abnormal lipid metabolism
		2	4	Disorder of purine metabolism
			5	Abnormal bone and calcium metabolism
		L	6	Metabolic electrolyte abnormality
8208	Endocrinology		1	Endocrinology
		L	2	Reproductive endocrinology
			1	Hematology
		1	2	Thrombosis/Hematostasis
0000	TT . 1	L	3	Transfusion medicine
8209	Hematology	2	4	Hematology/Oncology
		_	5	Hematopoietic stem cell transplantation
		3	6	Hematology/Immunology
		L	7	Immune regulation
	G 11	1	1	Connective tissue diseases
0.5	Collagenous	L	2	Rheumatology
8210	pathology/	_		Allergology
	Allergology	2	4	Clinical immunology
		L	_	Inflammation
				Infection diagnosis
	Infectious			Infection therapy
8211	disease			Infection prevention
	medicine		4	International infection science
				Infection epidemiology
		$\vdash$	6	Opportunistic infection
			1	Developmental pediatrics
			2	Growth and developmental medicine
		1	3	Pediatric metabolism/Nutrition
				Hereditary/Teratology
			-	Pediatric health
		L	6	Pediatric social medicine
		2	7	Pediatric neurology
0212	D- 1:-4.	<u> </u>	_	Pediatric endocrinology
8212	Pediatrics		_	Pediatric hematology
		_	10	Pediatric oncology
		3	11	Pediatric immunology/Allergy/Connective
			10	tissue diseases
		L		Pediatric infectious disease
				Pediatric cardiology
		4	_	Pediatric respirology
				Pediatric nephrology/Urology
	I	l		Pediatric gastroenterology
		Г	1	Prenatal diagnosis
	Embers '			_
0212	Embryonic/		2	Fetal medicine
8213	Neonatal		2	Fetal medicine Teratology
8213			2 3 4	Fetal medicine Teratology Neonatal medicine
8213	Neonatal		2 3 4 5	Fetal medicine Teratology Neonatal medicine Premature baby medicine
8213	Neonatal		2 3 4 5	Fetal medicine Teratology Neonatal medicine Premature baby medicine Skin diagnostics
8213	Neonatal	1	2 3 4 5 1 2	Fetal medicine Teratology Neonatal medicine Premature baby medicine Skin diagnostics Mechanisms of skin diseases
8213	Neonatal	1	2 3 4 5 1 2 3	Fetal medicine Teratology Neonatal medicine Premature baby medicine Skin diagnostics Mechanisms of skin diseases Cutaneous physiology and biology
8213	Neonatal	1	2 3 4 5 1 2 3 4	Fetal medicine Teratology Neonatal medicine Premature baby medicine Skin diagnostics Mechanisms of skin diseases Cutaneous physiology and biology Laser/photobiology
	Neonatal	1	2 3 4 5 1 2 3 4 5	Fetal medicine Teratology Neonatal medicine Premature baby medicine Skin diagnostics Mechanisms of skin diseases Cutaneous physiology and biology Laser/photobiology Dermatologic oncology
	Neonatal medicine	1	2 3 4 5 1 2 3 4 5 6	Fetal medicine Teratology Neonatal medicine Premature baby medicine Skin diagnostics Mechanisms of skin diseases Cutaneous physiology and biology Laser/photobiology Dermatologic oncology Pigment cell biology
	Neonatal medicine	1 2	2 3 4 5 1 2 3 4 5 6 7	Fetal medicine Teratology Neonatal medicine Premature baby medicine Skin diagnostics Mechanisms of skin diseases Cutaneous physiology and biology Laser/photobiology Dermatologic oncology Pigment cell biology Cutaneous immunology and inflammation
	Neonatal medicine		2 3 4 5 1 2 3 4 5 6 7 8	Fetal medicine Teratology Neonatal medicine Premature baby medicine Skin diagnostics Mechanisms of skin diseases Cutaneous physiology and biology Laser/photobiology Dermatologic oncology Pigment cell biology Cutaneous immunology and inflammation Infectious diseases
	Neonatal medicine		2 3 4 5 1 2 3 4 5 6 7 8	Fetal medicine Teratology Neonatal medicine Premature baby medicine Skin diagnostics Mechanisms of skin diseases Cutaneous physiology and biology Laser/photobiology Dermatologic oncology Pigment cell biology Cutaneous immunology and inflammation Infectious diseases Regenerative dermatology
	Neonatal medicine		2 3 4 5 1 2 3 4 5 6 7 8	Fetal medicine Teratology Neonatal medicine Premature baby medicine Skin diagnostics Mechanisms of skin diseases Cutaneous physiology and biology Laser/photobiology Dermatologic oncology Pigment cell biology Cutaneous immunology and inflammation Infectious diseases

(Discipline: Clinical internal medicine)

Psychiatric science  Psychiatric science  1	(Disc	cipline: Clinica	al internal medicine)					
Psychiatric science  Psychiatric psychiatry  Social psychiatry  Child and adolescence psychiatry  Neuropsychology  Liaison psychiatry  Psychiatric rehabilitation  Medical imaging (including diagnostic radiology)  X-Ray/CT  Ultrasonography  Radiopharmaceuticals/Contrast medium  Magnetic resonance imaging  Radiation protection and safety management Medical imaging technology  Nuclear medicine (including PET)  Interventional radiology  Angioplasty/Osteoplasty/Vascular embolization  Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment  Hyperthermia	Item Number	Research Field	L	Screening Sub-panel Number / Keyword				
Psychiatric science  Psychiatric psychiatry  Child and adolescence psychiatry  Neuropsychology  Liaison psychiatry  Psychiatric rehabilitation  Medical imaging (including diagnostic radiologental science)  Nagnetic resonance imaging  Radiation protection and safety management Medical imaging technology  Nuclear medicine (including PET)  Interventional radiology  Angioplasty/Osteoplasty/Vascular embolization  Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment  Hyperthermia			1	1	Psychopharmacology			
Psychiatric science  Psychiatric science  2 4 Psychopathology 5 Geriatric psychiatry 7 Child and adolescence psychiatry 8 Forensic psychiatry 9 Neuropsychology 10 Liaison psychiatry 11 Psychiatric rehabilitation 1 Medical imaging (including diagnostic radiology) 2 X-Ray/CT 3 Ultrasonography 4 Radiopharmaceuticals/Contrast medium 5 Magnetic resonance imaging 2 Radiation protection and safety management 7 Medical imaging technology 8 Nuclear medicine (including PET) 9 Interventional radiology 10 Angioplasty/Osteoplasty/Vascular embolization 11 Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment 12 Hyperthermia			1	2	Clinical molecular genetics			
Psychiatric science    5   Geriatric psychiatry			2	3	Psychophysiology			
Psychiatric science  6 Social psychiatry 7 Child and adolescence psychiatry 8 Forensic psychiatry 9 Neuropsychology 10 Liaison psychiatry 11 Psychiatric rehabilitation 1 Medical imaging (including diagnostic radiology) 2 X-Ray/CT 3 Ultrasonography 4 Radiopharmaceuticals/Contrast medium 5 Magnetic resonance imaging 2 6 Radiation protection and safety management 7 Medical imaging technology 8 Nuclear medicine (including PET) 9 Interventional radiology 10 Angioplasty/Osteoplasty/Vascular embolization 11 Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment 12 Hyperthermia				4	Psychopathology			
8216  Radiation science    6   Social psychiatry   7   Child and adolescence psychiatry   8   Forensic psychiatry   9   Neuropsychology   10   Liaison psychiatry   11   Psychiatric rehabilitation   1   Medical imaging (including diagnostic radiologent   2   X-Ray/CT   3   Ultrasonography   4   Radiopharmaceuticals/Contrast medium   5   Magnetic resonance imaging   2   6   Radiation protection and safety management   7   Medical imaging technology   8   Nuclear medicine (including PET)   9   Interventional radiology   10   Angioplasty/Osteoplasty/Vascular embolization   Radiofrequency ablation (RFA)/Stent   12   Hyperthermia   12   Hyperthermia   13   Hyperthermia				5	Geriatric psychiatry			
7 Child and adolescence psychiatry 8 Forensic psychiatry 9 Neuropsychology 10 Liaison psychiatry 11 Psychiatric rehabilitation 1 Medical imaging (including diagnostic radiologonal) 2 X-Ray/CT 3 Ultrasonography 4 Radiopharmaceuticals/Contrast medium 5 Magnetic resonance imaging 2 6 Radiation protection and safety management 7 Medical imaging technology 8 Nuclear medicine (including PET) 9 Interventional radiology 10 Angioplasty/Osteoplasty/Vascular embolization Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment 11 Hyperthermia	8215			6	Social psychiatry			
8216 Radiation science  Radiation science  8216 Radiation science  3				7	Child and adolescence psychiatry			
9   Neuropsychology   10   Liaison psychiatry   11   Psychiatric rehabilitation   1   Medical imaging (including diagnostic radiolog   2   X-Ray/CT   3   Ultrasonography   4   Radiopharmaceuticals/Contrast medium   5   Magnetic resonance imaging   2   6   Radiation protection and safety management   7   Medical imaging technology   8   Nuclear medicine (including PET)   9   Interventional radiology   10   Angioplasty/Osteoplasty/Vascular embolization   Radiofrequency ablation (RFA)/Stent   12   Hyperthermia   12   Hyperthermia			2	8	Forensic psychiatry			
11   Psychiatric rehabilitation   1   Medical imaging (including diagnostic radiology   2   X-Ray/CT   3   Ultrasonography   4   Radiopharmaceuticals/Contrast medium   5   Magnetic resonance imaging   2   6   Radiation protection and safety management   7   Medical imaging technology   8   Nuclear medicine (including PET)   9   Interventional radiology   10   Angioplasty/Osteoplasty/Vascular embolization   11   Radiofrequency ablation (RFA)/Stent   12   Hyperthermia			3	9	Neuropsychology			
1   Medical imaging (including diagnostic radiology   2   X-Ray/CT   3   Ultrasonography   4   Radiopharmaceuticals/Contrast medium   5   Magnetic resonance imaging   2   6   Radiation protection and safety management   7   Medical imaging technology   8   Nuclear medicine (including PET)   9   Interventional radiology   10   Angioplasty/Osteoplasty/Vascular embolization   11   Radiofrequency ablation   (RFA)/Stent   12   Hyperthermia				10	Liaison psychiatry			
Radiation science  Radiation science  2 X-Ray/CT 3 Ultrasonography 4 Radiopharmaceuticals/Contrast medium 5 Magnetic resonance imaging 2 6 Radiation protection and safety management 7 Medical imaging technology 8 Nuclear medicine (including PET) 9 Interventional radiology 10 Angioplasty/Osteoplasty/Vascular embolizati Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment 12 Hyperthermia				11	Psychiatric rehabilitation			
1 3 Ultrasonography   4 Radiopharmaceuticals/Contrast medium   5 Magnetic resonance imaging   2 6 Radiation protection and safety management   7 Medical imaging technology   8 Nuclear medicine (including PET)   9 Interventional radiology   10 Angioplasty/Osteoplasty/Vascular embolizati   11 Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment   12 Hyperthermia				1	Medical imaging (including diagnostic radiology)			
Radiation science    3   Ultrasonography			1	2	X-Ray/CT			
8216 Radiation science    Solution   Part   Part				3	Ultrasonography			
8216 Radiation science  2 6 Radiation protection and safety management 7 Medical imaging technology  8 Nuclear medicine (including PET)  9 Interventional radiology  10 Angioplasty/Osteoplasty/Vascular embolization (RFA)/Stent treatment/Reserver treatment  11 Hyperthermia				4	Radiopharmaceuticals/Contrast medium			
8216 Radiation science  Radiation science  Radiation science  7 Medical imaging technology  8 Nuclear medicine (including PET)  9 Interventional radiology  10 Angioplasty/Osteoplasty/Vascular embolization Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment  11 Hyperthermia	8216			5	Magnetic resonance imaging			
Radiation science  8216 Radiation science  8 Nuclear medicine (including PET) 9 Interventional radiology 10 Angioplasty/Osteoplasty/Vascular embolization 11 Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment 12 Hyperthermia			2	6	Radiation protection and safety management			
Radiation science  Padiation science  Radiation science  9 Interventional radiology 10 Angioplasty/Osteoplasty/Vascular embolization Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment 11 Hyperthermia				7	Medical imaging technology			
Radiation science 23 In Angioplasty/Osteoplasty/Vascular embolization Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment Hyperthermia			3	8	Nuclear medicine (including PET)			
8216 science 3 Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment 12 Hyperthermia				9	Interventional radiology			
8216 science   Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment   12 Hyperthermia   12 Hyperthermia				10	Angioplasty/Osteoplasty/Vascular embolization			
treatment/Reserver treatment  Hyperthermia				11	Radiofrequency ablation (RFA)/Stent			
					treatment/Reserver treatment			
13 Ultrasound therapy				12	Hyperthermia			
				13	Ultrasound therapy			
14 Radiation emergency medicine				14	Radiation emergency medicine			
15 Medical radiation biology				15	Medical radiation biology			
16 Therapeutic radiology			4					
17 Radiation oncology				17	Radiation oncology			
4 18 Radiotherapy physics								
19 Radiotherapy biology								
20 Particle beam therapy								

Discipline: Clinical surgery

	Discipline: Clinical surgery						
Item Number	Research Field	Screening Sub-panel Number / Keyword					
	General surgery		1	General surgery			
			2	Transplant surgery			
		1	3	Artificial organs science			
			4	Endoscopic surgery			
8301				Robotic surgery			
				Experimental surgery			
		2	7	Endocrine surgery			
		2	8	Breast surgery			
			9	Surgical metabolism and nutrition			
		1	1	Esophageal surgery			
			2	Gastroduodenal surgery			
	Diagotivo	2	3	Colorectal surgery			
8302	Digestive surgery	3	4	Hepatic surgery			
		٥	5	Surgery for spleen and portal vein			
		4	6	Biliary surgery			
			7	Pancreatic surgery			
8303	Cardiovascular surgery	1	1	Coronary surgery			
			2	Heart valve surgery			
			3	Surgery in cardiomyopathy			
			4	Congenital cardiovascular surgery			
		2	5	Aortic surgery			
			6	Peripheral vascular surgery			
			7	Phlebosurgery			
			8	Lymphology			
	Respiratory surgery	1	1	Lung surgery			
				Tracheal surgery			
8304		2	3	Mediastinal surgery			
			4	Pleural surgery			
		Ш	5	Chest wall surgery			

(Discipline: Clinical surgery )

Number	Research Field			
	Research Field	h	1	Screening Sub-panel Number / Keyword
			1	Neurotrauma Cerebrovascular disorders
		1	2	
			3	Neuro-endovascular surgery Experimental neurosurgery
		2		Neuro-oncology
9205	Mannagangang	_		Diagnostic neuroimaging
8303	Neurosurgery		6	
				Functional neurosurgery
		3	8	Pediatric neurosurgery
				Spinal cord/Spinal diseases Neurosurgical instruments
			11	Stereotactic radiosurgery
		H		
		1	2	Spinal disorders  Muscle/Nerve disorders
		1	3	
		Н		Physical therapy and rehabilitation science Bone and soft tissue tumors
			4	
8306	Orthopaedic	2	5	Limb reconstruction surgery
8300	surgery		6	Pediatric orthopaedics
		Н	7	Musculoskeletal traumatology
				Joint disorders
		3	9	Rheumatic diseases
				Bone and cartilage metabolism
		Ц		Sports medicine
		1	1	Anesthesiology
8307	Anesthesiology		2	Anesthesiology and Resuscitology
	1 mesemesiology	2	3	Perioperative management
		3	4	Pain management
		1	1	Oncology
			2	Neurourology and Urodynamics
			3	Infectious diseases
		2	4	Regenerative medicine
8308	Urology	3	5	Regenerative medicine
			6	Teratology
			7	Adrenal surgery
			8	Kidney transplantation
			9	Andrology
	Obstetrics	1.	1	Obstetrics
		1	2	Reproductive medicine
8309	and	П	3	Gynecology
	gynecology	2	4	Gynecologic oncology
			5	Menopause medicine
			-1	
			1	Otology
		1		Otology Equilibrium Research
		1	2	Equilibrium Research
		1	2	Equilibrium Research Audiology
		2	2 3 4	Equilibrium Research Audiology Rhinology
8310	Otorhinolaryngology		2 3 4 5	Equilibrium Research Audiology Rhinology Allergology
8310	Otorhinolaryngology		2 3 4 5 6	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery
8310	Otorhinolaryngology	2	2 3 4 5 6 7	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology
8310	Otorhinolaryngology		2 3 4 5 6 7 8	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology
8310	Otorhinolaryngology	2	2 3 4 5 6 7 8	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology
8310	Otorhinolaryngology	2	2 3 4 5 6 7 8 9	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery
8310	Otorhinolaryngology	2	2 3 4 5 6 7 8 9 10	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery Clinical research
8310	Otorhinolaryngology	2	2 3 4 5 6 7 8 9 10 1	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery Clinical research Epidemiology study
8310	Otorhinolaryngology	2	2 3 4 5 6 7 8 9 10 1 2 3	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery Clinical research Epidemiology study Social medicine
8310	Otorhinolaryngology	2	2 3 4 5 6 7 8 9 10 1 2 3 4	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery Clinical research Epidemiology study Social medicine Ocular biochemistry and molecular biology
8310	Otorhinolaryngology	3	2 3 4 5 6 7 8 9 10 1 2 3 4 5	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery Clinical research Epidemiology study Social medicine Ocular biochemistry and molecular biology Ocular cell biology
8310	Otorhinolaryngology	2	2 3 4 5 6 7 8 9 10 1 2 3 4 5 6	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery Clinical research Epidemiology study Social medicine Ocular biochemistry and molecular biology Ocular cell biology Ophthalmic genetics
8310	Otorhinolaryngology	3	2 3 4 5 6 7 8 9 10 1 2 3 4 5 6	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery Clinical research Epidemiology study Social medicine Ocular biochemistry and molecular biology Ocular cell biology Ophthalmic genetics Ocular histology
	Otorhinolaryngology	3	2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 7	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery Clinical research Epidemiology study Social medicine Ocular biochemistry and molecular biology Ocular cell biology Ophthalmic genetics Ocular pathology
		3	2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 7 8 9	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery Clinical research Epidemiology study Social medicine Ocular biochemistry and molecular biology Ocular cell biology Ophthalmic genetics Ocular pathology Ocular pharmacology
		3	2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 10 1 2 3 4 5 6 7 1 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery Clinical research Epidemiology study Social medicine Ocular biochemistry and molecular biology Ocular cell biology Ophthalmic genetics Ocular histology Ocular pathology Ocular pharmacology Ocular physiology
		3	2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery Clinical research Epidemiology study Social medicine Ocular biochemistry and molecular biology Ocular cell biology Ophthalmic genetics Ocular histology Ocular pathology Ocular pharmacology Ocular physiology Ocular developmental and regenerative biology
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		2 3 2	2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 9 10 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Equilibrium Research Audiology Rhinology Allergology Skull Base Surgery Stomato-pharyngology Laryngology Broncho-esophagology Head and Neck Surgery Clinical research Epidemiology study Social medicine Ocular biochemistry and molecular biology Ocular cell biology Ophthalmic genetics Ocular histology Ocular pathology Ocular pharmacology Ocular physiology Ocular developmental and regenerative biology Ocular immunology Ocular microbiology/Infectious diseases Science orthoptic

(Discipline: Clinical surgery )

Item		i surgery /			
Number	Research Field	Screening Sub-panel Number / Keyword			
		1	Pediatric digestive surgery		
	Pediatric	2	Fetal surgery		
8312		3	Pediatric urology		
	surgery	4	Pediatric chest surgery		
		5	Pediatric oncology		
	Plastic surgery	1	Reconstructive surgery		
8313		2	Wound healing science		
		3	Microsurgery		
		4	Tissue culture/Transplantation		
		5	Regenerative medicine		
8314	Emergency medicine	1	Intensive care medicine		
		2	Trauma surgery		
		3	Emergency resuscitation science		
		4	Acute toxicology		
		5	Disaster medicine		

**Discipline: Dentistry** 

Item Number	Research Field	L		Screening Sub-panel Number / Keyword
	Mambalasiaal		1	Oral anatomy (including histology/embryology
8401	Morphological		2	Oral pathology
	basic dentistry		3	Oral bacteriology
8402	Functional basic dentistry		1	Oral physiology
			2	Oral biochemistry
			3	Dental pharmacology
	Pathobiological	П	1	Experimental oncology
0.402	dentistry/		2	Immunity/Infection/Inflammation
0403	Dental		3	General dental radiology
	radiology		4	Oral and maxillofacial diagnostic radiology
8404	Conservative	П	1	Operative dentistry
8404	dentistry		2	Endodontology
	•	П	1	General prosthodontics
	Prosthodontics/ Dental	1	2	Removable denture prosthodontics
		1	3	Fixed partial denture prosthodontics
8405	materials		4	Oral and maxillofacial prosthetics
	science and	П	5	Stomatognathic function
	engineering	2	6	Dental engineering
			7	Dental materials science
	Dental engineering/ Regenerative dentistry	П	1	Biomaterials science
8406			2	Regenerative dentistry
			3	Oral implantology
8407	Surgical dentistry	1	1	Oral and maxillofacial surgery
		2	2	Clinical oncology
			3	Dental anesthesiology
		3	4	Laboratory medicine
			5	Oral maxillofacial reconstructive surgery
8408	0 1 1 1 1	1	1	Orthodontics
	Orthodontics/ Pediatric	П	2	Pediatric dentistry
		2	3	Pediatric oral health science
	dentistry		4	Stomatognathic function and mechanics
		П	1	Pathogenesis and diagnosis
8409	Periodontology		2	Periodontics
			3	Periodontal tissue engineering
			4	Preventive periodontology
	Social dentistry	П	1	Dental hygiene (including public hygiene/nutrition)
		1	2	Preventive dentistry
			3	Oral health administration and management
8410		H	4	Forensic odontology
		$  \  $	5	Gerodontics
		2	6	Psychosomatic medicine dentistry
		Ш	7	Dental education
			,	Dental cadeation

**Discipline: Nursing** 

Item			cipline: Nursing						
Number	Research Field		Screening Sub-panel Number / Keyword						
	Fundamental		1	Nursing philosophy					
		1	2	Nursing ethics					
		1	3	Nursing art					
8501 I			4	History of nursing					
0301	nursing	2	5	Nursing education					
	-		6	Nursing management					
		3	7	Nursing policy/Administration					
			8	Disaster nursing					
			1	Critical care/Emergency nursing					
		1	2	Perioperative nursing					
8502	Clinical		3	Adult nursing (chronic)					
10302	nursing	2	4	Rehabilitation nursing					
			5	Tarminal care					
			6	Oncology nursing					
	Lifelong developmental nursing	1	1	Family health nursing					
			2	Maternal/Women's health nursing					
		2	3	Midwifery					
nuising	iluisiiig	_	4	Child health nursing					
		1	1	Gerontological nursing					
		1	2	Rehabilitation nursing					
8504	Gerontological nursing	2	3	Psychiatric/Mental health nursing					
r			4	Home care nursing					
			5	Visiting nursing					
			6	Family health nursing					
	Community health nursing	1	1	Community health nursing					
			2	Occupational and environmental health nursing					
		2	3	Public health nursing					
1			4	School nursing					