

Attached Table 2 List of Categories, Areas, Disciplines and Research Fields

(1) Grants-in-Aid for Scientific Research FY2014 List of Categories, Areas, Disciplines and Research Fields

Category: Integrated Disciplines

Area	Discipline	Research Field	Item Number	Remark		
Informatics	Principles of Informatics	Theory of informatics	1001			
		Mathematical informatics	1002			
		Statistical science	1003			
	Principles of Informatics	Computer system	1101			
		Software	1102			
		Information network	1103			
		Multimedia database	1104			
		High performance computing	1105			
		Information security	1106			
		Cognitive science	1201			
	Human informatics	Perceptual information processing	1202			
		Human interface and interaction	1203			
		Intelligent informatics	1204			
		Soft computing	1205			
		Intelligent robotics	1206			
		Kansei informatics	1207			
		Frontiers of informatics	Life / Health / Medical informatics	1301		
			Web informatics, Service informatics	1302	A B	
	Library and information science/ Humanistic social informatics		1303	A B		
	Learning support system		1304			
	Entertainment and game informatics		1305			
	Environmental science		Environmental analyses and evaluation	Environmental dynamic analysis	1401	
				Risk sciences of radiation and chemicals	1402	A B
		Environmental impact assessment		1403		
		Environmental conservation	Environmental engineering and reduction of environmental burden	1501		
			Modeling and technologies for environmental conservation and remediation	1502		
			Environmental conscious materials and recycle	1503		
Environmental risk control and evaluation			1504			
Sustainable and environmental system development		Environmental and ecological symbiosis	1601			
		Design and evaluation of sustainable and environmental conscious system	1602			
		Environmental policy and social systems	1603			
Complex systems		Design science	Design science	1651		
		Human life science	Home economics/Human life	1701		
			Clothing life/Dwelling life	1702		
	Eating habits		1703	A B※		
	Science education/Educational technology	Science education	1801	※		
		Educational technology	1802	※		
	Sociology/History of science and technology	Sociology/History of science and technology	1901			
	Cultural assets study and museology	Cultural assets study and museology	2001	A B		
	Geography	Geography	2101			
	Social/Safety system science	Social systems engineering/ Safety system	2201	A B		
		Natural disaster / Disaster prevention science	2202	A B		
		Biomedical engineering	Biomedical engineering/ Biomaterial science and engineering	2301	A B	
	Medical systems		2302			
	Medical engineering assessment		2303			
	Rehabilitation science/ Welfare engineering		2304	A※ B		

Area	Discipline	Research Field	Item Number	Remark
Complex systems	Health/Sports science	Developmental mechanisms and the body works	2401	A B
		Sports science	2402	A※ B
		Applied health science	2403	A※ B
	Childhood science	Childhood science (childhood environment science)	2451	
	Biomolecular science	Biomolecular chemistry	2501	
		Chemical biology	2502	
	Brain sciences	Basic / Social brain science	2601	A B
		Brain biometrics	2602	

Category: Humanities and Social Sciences

Area	Discipline	Research Field	Item Number	Remark	
Humanities/ Social sciences	Area studies	Area studies	2701		
	Gender	Gender	2801		
Humanities	Tourism Studies	Tourism Studies	2851		
	Philosophy	Philosophy/Ethics	2901		
		Chinese philosophy/Indian philosophy/Buddhist studies	2902	※	
		Religious studies	2903		
		History of thought	2904		
		Aesthetics and studies on art	3001		
	Art studies	Fine art history	3002		
		Art at large	3003		
		Literature	Japanese literature	3101	※
	Literature in English		3102	※	
	European literature		3103	※	
	Chinese literature		3104		
	Linguistics	Literature in general	3105		
		Linguistics	3201	※	
	History	Japanese linguistics	3202		
		English linguistics	3203		
		Japanese language education	3204		
		Foreign language education	3205	※	
	Human geography	Historical studies in general	3301		
		Japanese history	3302	※	
		History of Asia and Africa	3303		
		History of Europe and America	3304		
		Archaeology	3305		
	Cultural anthropology	Cultural anthropology	3501		
	Social sciences	law	Fundamental law	3601	
			Public law	3602	
			International law	3603	
Social law			3604		
Criminal law			3605		
Civil law			3606		
New fields of law			3607		
Politics		Politics	3701		
		International relations	3702		
Economics		Economic theory	3801		
		Economic doctrine/ Economic thought	3802		
		Economic statistics	3803		
		Economic policy	3804		
		Public finance/Public economy	3805		
		Money/ Finance	3806		
		Economic history	3807		
Management		Management	3901	※	
		Commerce	3902		
Sociology		Accounting	3903		
		Sociology	4001	※	
	Social welfare and social work studies	4002			

The first stage of the screening of the research fields that have the indication “A” or “B” in the remarks column is carried out in separate groups. The basis for this division in separate groups is the keywords that need to be selected within each research category. Make sure to select A or B based on the Attached Table “List of Categories, Areas, Disciplines and Research Fields”, when applying for these research fields.

The first stage of the screening of the research fields that have the symbol “※” is carried out in separate groups. The basis for this division in separate groups is the keywords that need to be selected within “Scientific Research (C)”. Make sure to select a division number from 1 to 5 based on the Attached Table “List of Categories, Areas, Disciplines and Research Fields”, when applying for these research fields. For research fields that include A※ or B※, choose either A or B and division number 1 or 2.

In the case of “Scientific Research (C)”, 15 research fields carried in the “List of Disciplines and Research Fields with a Time Limit” have been set up as areas for screening, besides the main table.

(Humanities and Social Sciences)

Area	Discipline	Research Field	Item Number	Remark
Social sciences	Psychology	Social psychology	4101	
		Educational psychology	4102	
		Clinical psychology	4103	
		Experimental psychology	4104	
	Education	Education	4201	※
		Sociology of education	4202	
		Education on school subjects and activities	4203	※
		Special needs education	4204	

Category: Science and Engineering

Interdisciplinary science and engineering	Nano/Micro science	Nanostructural chemistry	4301		
		Nanostructural physics	4302		
		Nanomaterials chemistry	4303		
		Nanomaterials engineering	4304		
		Nanobioscience	4305		
		Nano/Microsystems	4306		
	Applied physics	Applied materials	4401		
		Crystal engineering	4402		
		Thin film/Surface and interfacial physical properties	4403		
		Optical engineering, Photon science	4404		
		Plasma electronics	4405		
	Quantum beam science	General applied physics	4406		
		Quantum beam science	4501		
Computational science	Computational science	4601			
Mathematical and physical sciences	Mathematics	Algebra	4701	※	
		Geometry	4702	※	
		Basic analysis	4703	※	
		Mathematical analysis	4704		
		Foundations of mathematics/Applied mathematics	4705	※	
	Astronomy	Astronomy	4801		
	Physics	Particle/Nuclear/Cosmic ray/Astro physics	4901	※	
		Condensed matter physics I	4902		
		Condensed matter physics II	4903	※	
		Mathematical physics/ Fundamental condensed matter physics	4904		
		Atomic/Molecular/Quantum electronics	4905		
		Biological physics/Chemical physics/Soft matter physics	4906		
		Earth and planetary science	Solid earth and planetary physics	5001	
			Meteorology/Physical oceanography/Hydrology	5002	
	Space and upper atmospheric physics		5003		
	Geology		5004		
	Stratigraphy/Paleontology		5005		
	Petrology/Mineralogy/ Economic geology		5006		
	Geochemistry/Cosmochemistry		5007		
	Plasma science	Plasma science	5101		
	Chemistry	Basic chemistry	Physical chemistry	5201	
			Organic chemistry	5202	
			Inorganic chemistry	5203	
		Applied chemistry	Functional solid state chemistry	5301	
			Synthetic chemistry	5302	
			Polymer chemistry	5303	
			Analytical chemistry	5304	
			Bio-related chemistry	5305	
			Green/Environmental chemistry	5306	
			Energy-related chemistry	5307	
Materials chemistry		Organic and hybrid materials	5401		
		Polymer/Textile materials	5402		
		Inorganic industrial materials	5403		
		Device related chemistry	5404		
Engineering		Mechanical engineering	Materials/ Mechanics of materials	5501	
	Production engineering/ Processing studies		5502		

Area	Discipline	Research Field	Item Number	Remark
Engineering	Mechanical engineering	Design engineering/ Machine functional elements/ Tribology	5503	
		Fluid engineering	5504	
		Thermal engineering	5505	
		Dynamics/Control	5506	
		Intelligent mechanics/ Mechanical systems	5507	
		Electrical and electronic engineering	Power engineering/Power conversion/Electric machinery	5601
	Electronic materials/ Electric materials		5602	
	Electron device/ Electronic equipment		5603	
	Communication/ Network engineering		5604	
	Measurement engineering		5605	
	Control engineering/System engineering		5606	
	Civil engineering	Civil engineering materials/ Construction/ Construction management	5701	
		Structural engineering/ Earthquake engineering/ Maintenance management engineering	5702	
		Geotechnical engineering	5703	
		Hydraulic engineering	5704	
		Civil engineering project/ Traffic engineering	5705	
		Civil and environmental engineering	5706	
	Architecture and building engineering	Building structures/Materials	5801	
		Architectural environment/ Equipment	5802	
		Town planning/ Architectural planning	5803	
		Architectural history/Design	5804	
	Material engineering	Physical properties of metals/Metal-base materials	5901	
		Inorganic materials/Physical properties	5902	
		Composite materials/Surface and interface engineering	5903	
		Structural/Functional materials	5904	
		Material processing/Microstructural control engineering	5905	
		Metal making/Resource production engineering	5906	
	Process/Chemical engineering	Properties in chemical engineering process/Transfer operation/Unit operation	6001	
		Reaction engineering/Process system	6002	
		Catalyst/Resource chemical process	6003	
Biofunction/Bioprocess		6004		
Integrated engineering	Aerospace engineering	6101		
	Naval and maritime engineering	6102		
	Earth system and resources engineering	6103		
	Nuclear fusion studies	6104		
	Nuclear engineering	6105		
Energy engineering	6106			

Category: Biological Sciences

Area	Discipline	Research Field	Item Number	Remark	Area	Discipline	Research Field	Item Number	Remark
Biological Sciences	Neuroscience	Neurophysiology / General neuroscience	6201		Medicine, dentistry, and pharmacy	Basic medicine	General anatomy (including histology/embryology)	7901	※
		Nerve anatomy/Neuropathology	6202	A			General physiology	7902	
		Neurochemistry/Neuropharmacology	6203	B			Environmental physiology (including physical medicine and nutritional physiology)	7903	
	Laboratory animal science	Laboratory animal science	6301				General pharmacology	7904	
	Oncology	Tumor biology	6401	A			General medical chemistry	7905	
		Tumor diagnostics	6402	B			Pathological medical chemistry	7906	
		Tumor therapeutics	6403				Human genetics	7907	
	Genome science	Genome biology	6501				Human pathology	7908	※
		Medical genome science	6502				Experimental pathology	7909	※
		System genome science	6503				Parasitology (including sanitary zoology)	7910	
Conservation of biological resources	Conservation of biological resources	6601		Bacteriology (including mycology)	7911				
Biology	Biological Science	Molecular biology	6701		Virology	7912			
		Structural biochemistry	6702		Immunology	7913			
		Functional biochemistry	6703		Medical sociology	8001			
		Biophysics	6704		Applied pharmacology	8002			
		Cell biology	6705		Laboratory medicine	8003	※		
		Developmental biology	6706		Medical Physics and Radiological Technology	8005			
	Basic biology	Plant molecular biology/Plant physiology	6801		Pain science	8004			
		Morphology/Structure	6802		Epidemiology and preventive medicine	8101	※		
		Animal physiology/Animal behavior	6803		Hygiene and public health	8102	※		
		Genetics/Chromosome dynamics	6804		Medical and hospital management	8103			
Evolutionary biology		6805		Legal medicine	8104				
Biodiversity/Systematics		6806		General internal medicine (including psychosomatic medicine)	8201				
Ecology/Environment	6807		Gastroenterology	8202	※				
Anthropology	Physical anthropology	6901		Cardiovascular medicine	8203	※			
	Applied anthropology	6902		Respiratory organ internal medicine	8204	※			
Agricultural sciences	Plant production and environmental agriculture	Science in genetics and breeding	7001		Kidney internal medicine	8205	※		
		Crop production science	7002		Neurology	8206	※		
		Horticultural science	7003		Metabolomics	8207	※		
		Plant protection science	7004	A	Endocrinology	8208			
	Agricultural chemistry	Plant nutrition/Soil science	7101		Hematology	8209	※		
		Applied microbiology	7102		Collagenous pathology/Allergology	8210	※		
		Applied biochemistry	7103		Infectious disease medicine	8211			
		Bioorganic chemistry	7104		Pediatrics	8212	※		
	Forest and forest products science	Food science	7105	※	Embryonic/Neonatal medicine	8213			
		Forest science	7201		Dermatology	8214	※		
Applied aquatic science	Wood science	7202		Psychiatric science	8215	※			
	Aquatic bioproduction science	Aquatic bioproduction science	7301	A	Radiation science	8216	※		
		Aquatic life science	7302	B	General surgery	8301	※		
	Agricultural science in management and economy	Agricultural science in management and economy	7401		Digestive surgery	8302	※		
		Agricultural science in rural society and development	7402		Cardiovascular surgery	8303	※		
	Agro-engineering	Rural environmental engineering/Planning	7501		Respiratory surgery	8304	※		
		Agricultural environmental engineering/Agricultural information engineering	7502	A	Neurosurgery	8305	※		
	Animal life science	Veterinary medical science	Animal production science	7601	B	Orthopaedic surgery	8306	※	
			Veterinary medical science	7602	A	Anesthesiology	8307	※	
		Integrative animal science	7603	B	Urology	8308	※		
Boundary agriculture	Insect science	Animal production science	7601	A	Obstetrics and gynecology	8309	※		
		Environmental agriculture(including landscape science)	7702	B	Otorhinolaryngology	8310	※		
	Applied molecular and cellular biology	7703		Ophthalmology	8311	※			
Medicine, dentistry, and pharmacy	Pharmacy	Chemical pharmacy	7801		Pediatric surgery	8312			
		Physical pharmacy	7802		Plastic surgery	8313			
		Biological pharmacy	7803		Emergency medicine	8314			
		Pharmacology in pharmacy	7804		Morphological basic dentistry	8401			
		Natural medicines	7805		Functional basic dentistry	8402			
		Drug development chemistry	7806		Pathobiological dentistry/ Dental radiology	8403			
		Environmental and hygienic pharmacy	7807		Conservative dentistry	8404			
		Medical pharmacy	7808	※	Prosthodontics/ Dental materials science and Dental engineering/ Regenerative dentistry	8405	※		
Medicine, dentistry, and pharmacy	Dentistry	Surgical dentistry	8407	※	Surgical dentistry	8407	※		
		Orthodontics/Pediatric dentistry	8408	※	Orthodontics/Pediatric dentistry	8408	※		
		Periodontology	8409		Periodontology	8409			
		Social dentistry	8410	※	Social dentistry	8410	※		
		Nursing	Fundamental nursing	8501	※	Fundamental nursing	8501	※	
			Clinical nursing	8502	※	Clinical nursing	8502	※	
			Lifelong developmental nursing	8503	※	Lifelong developmental nursing	8503	※	
			Gerontological nursing	8504	※	Gerontological nursing	8504	※	
			Community health nursing	8505	※	Community health nursing	8505	※	