Grant-in-Aid for Scientific Research on Innovative Areas
(Research in a proposed research area)

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□ Distribution by Research Area of the Newly Adopted Projects

Purpose and Description of Grant-in-Aid for Scientific Research on Innovative Areas(Research in a proposed research area) (excerpt from the "Application Procedures for Grants-in-Aid for Scientific Research"):

1) **Intended for**:
Research aimed at developing a new research area proposed by a researcher or a researcher group that can lead to improvement or strengthening of the scientific level of Japan, through efforts such promotion of joint research and cultivation of research personnel.

2) **Total budget provided**:
About 10 to 300 million yen per year

3) **Research period**:
5 years

【 New Projects】

	Number of Applications			Total Grant Disbursements (FY2012)	Per-project Grants (FY2012)	
	Received	Adopted	Ratio		Average	Largest
			(%)	(in thousands of yen)	(in thousands of yen)	(in thousands of yen)
Humanities and Social Sciences	6	1	16.7	104,700	104,700	104,700
Science and Engineering	75	9	12.0	1,736,200	192,911	252,500
Biological Sciences	78	8	10.3	1,800,700	225,088	256,900
Interdisciplinary Area	26	3	11.5	661,500	220,500	252,000
Total	185	21	11.4	4,303,100	204,910	256,900

※ Figure reflects only direct funding

【 New and Ongoing Projects】

	Number of Applications
Humanities and Social Sciences	5
Science and Engineering	45
Biological Sciences	52
Interdisciplinary Area	17
Total	119

List of the Newly Adopted Projects for Grant-in-Aid for Scientific Research on Innovative Areas(Research in a proposed research area) of KAKENHI, FY2012

(1)Humanities and Social Sciences (1 Project)

(in Thousands of Yen)

Head Investigator		Title	Term of Project	Annual Budget	Budget throughout for the Entire Research Period
Akira Tsuneki	University of Tsukuba, Faculty of Humanities and Social Sciences, Professor	Ancient West Asian civilization as the foundation of all modern civilizations: A counter to the "Clash of Civilizations" theory	FY2012-2016	104,700	349,500

(2)Science and Engineering (9 Projects)

(in Thousands of Yen)

Head Investigator		Title	Term of Project	Annual Budget	Budget throughout for the Entire Research Period
Yoshiki Chujo	Kyoto University, Graduate School of Engineering, Professor	New Polymeric Materials Based on Element-Blocks	FY2012-2016	228,700	1,161,100
Takashi Nakamura	Kyoto University, Graduate School of Science, Professor	New Developments in Astrophysics Through Multi-Messenger Observations of Gravitational Wave Sources	FY2012-2016	151,200	910,500
Masami Hagiya	The University of Tokyo, Graduate School of Information Science and Technology, Professor	Development of Molecular Robots equipped with sensors and intelligence	FY2012-2016	212,800	1,038,800
Hirokazu Tamura	Tohoku University, Graduate School of Science, Professor	Nuclear Matter in Neutron Stars Investigated by Experiments and Astronomical Observations	FY2012-2016	247,200	1,079,300
Osamu Watanabe	Tokyo Institute of Technology,Graduate School of Information Science and Engineering, Professor	A multifaceted approach toward understanding the limitations of computation	FY2012-2016	71,100	536,500
Haruo Inoue	Tokyo Metropolitan University, Department of Applied Chemistry, Professor	Chemical conversion of solar energy by artificial photosynthesis: a breakthrough by fusion of related fields toward realization of practical processes	FY2012-2016	130,600	750,700
Masaru Hori	Nagoya University, Graduate School of Engineer, Professor	Plasma Medical Innovation	FY2012-2016	252,500	1,131,800
Yohsuke Yamamoto	Hiroshima University, Graduate School of Science, Professor	Stimuli-responsive Chemical Species for the Creation of Functional Molecules	FY2012-2016	212,300	1,118,200
Yuichi Onda	University of Tsukuba, Faculty of Life and Environmental Sciences, Professor	Interdisciplinary Study on Environmental Transfer of Radionuclides from the Fukushima Daiichi NPP Accident	FY2012-2016	229,800	923,800

(3)Biological Sciences (8 Projects)

(in Thousands of Yen)

Head Investigator		Title	Term of Project	Annual Budget	Budget throughout for the Entire Research Period
Yousuke Takahama	University of Tokushima, Institute for Genome Research, Professor	Analysis and synthesis of multidimensional immune organ network	FY2012-2016	216,000	1,129,400
Kazuhiro Iwai	Kyoto University, Graduate School of Medicine, Professor	New aspect of the ubiquitin system : its enormous roles in protein regulation	FY2012-2016	256,300	1,191,300
Hiroshi Hamada	Osaka University, Graduate School of Frontier Biosciences, Professor	Cilium-centrosome system regulating biosignal flows	FY2012-2016	256,900	1,185,900
Kazuhiko Nishitani	Tohoku University, Graduate School of Life Sciences, Professor	The plant cell wall as information-processing system	FY2012-2016	248,600	1,154,900
Kyosuke Nagata	University of Tsukuba, Faculty of Medicine, Professor	Molecular basis of host cell competency in virus infection	FY2012-2016	111,500	1,024,100
Satoshi Kida	Tokyo University of Agriculture, Faculty of Applied Bioscience, Professor	Unraveling the micro-endophenotypes of psychiatric disorders at the molecular, cellular and circuit levels	FY2012-2016	231,400	1,135,000
Makoto Miyata	Osaka City University, Graduate School of Science, Professor	Harmonized supramolecular motility machinery and its diversity	FY2012-2016	233,400	1,162,600
Yuki Yamaguchi	Tokyo Institute of Technology, Graduate School of Bioscience and Biotechnology, Associate Professor	Integral understanding of the mechanism of transcription cycle through quantitative, high-resolution approaches	FY2012-2016	246,600	1,198,300

(4)Interdisciplinary Area (3 Projects)

(in Thousands of Yen)

Head Investigator		Title	Term of Project	Annual Budget	Budget throughout for the Entire Research Period
Yasuo Kuniyoshi	The University of Tokyo, Graduate School of Information Science and Technology, Professor	Constructive Developmental Science: Revealing the Principles of Development from Fetal Period and Systematic Understanding of Developmental Disorders	FY2012-2016	192,700	1,093,300
Masatsugu Shimomura	Tohoku University, WPI-AIMR, Professor	Innovative Materials Engineering Based on Biological Diversity	FY2012-2016	252,000	1,076,500
Ken Furuya	The University of Tokyo,Graduate School of Agricultural and Life Sciences, Professor	New Ocean Paradigm on Its Biogeochemistry, Ecosystem and Sustainable Use	FY2012-2016	216,800	695,100