

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

### (1) Grants-in-Aid for Scientific Research FY2016 List of Categories, Areas, Disciplines and Research Fields

In the case of all the research categories (except for screening division “Overseas Academic Research”), the first stage of the screening of the research fields that have the indication “A” , “B” or “C” in the remarks column is carried out in separate groups. The basis for this division in separate groups is the keywords. Make sure to select “A” , “B” or “C” based on the Appendix Table of Keywords “Categories, Areas, Disciplines and Research Fields”, when applying for these research fields.

In the case of “Scientific Research (C)”, screening division “General”, 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. Make sure to select a division number from “1” to “5” based on the Appendix Table of Keywords “Categories, Areas, Disciplines and Research Fields”, when applying for these research fields for the research category “Scientific Research (C)”, screening division “General”. Moreover, for research fields that include “A” and “※”, make sure to select “A”, and subsequently select a division number “1” or “2”, when applying.

In the case of “Scientific Research (C)”, screening division “General”, 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.

#### Category: Integrated Disciplines

Area	Discipline	Research Field	Item Number	Remark	
Informatics	Principles of Informatics	Theory of informatics	1001		
		Mathematical informatics	1002		
		Statistical science	1003		
	Computing Technologies	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 C	
	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	
		Literature in general	3105	
	Linguistics	Linguistics	3201	※
		Japanese linguistics	3202	
		English linguistics	3203	
		Japanese language education	3204	
	History	Foreign language education	3205	※
		Historical studies in general	3301	
Japanese history		3302	※	
Human geography	History of Asia and Africa	3303		
	History of Europe and America	3304		
	Archaeology	3305		
	Human geography	Human geography	3401	
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	※
Sociology	Commerce	3902		
	Accounting	3903		
	Sociology	4001	※	
	Social welfare and social work studies	4002		

## (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			
		Plasma science	Plasma science	5101		
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			
		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		
Biological Sciences	Neuroscience	Neurophysiology / General neuroscience	6201			
		Nerve anatomy/Neuropathology	6202	A B		
		Neurochemistry/ Neuropharmacology	6203			
	Laboratory animal science	Laboratory animal science	6301			
	Oncology	Tumor biology	6401	A B		
		Tumor diagnostics	6402			
		Tumor therapeutics	6403			
	Genome science	Genome biology	6501			
		Medical genome science	6502			
		System genome science	6503			
	Conservation of biological resources	Conservation of biological resources	6601			
	Biology	Biological Science	Molecular biology	6701		
Structural biochemistry			6702			
Functional biochemistry			6703			
Biophysics			6704			
Cell biology			6705			
Developmental biology			6706			
Basic biology		Plant molecular biology/Plant physiology	6801			
		Morphology/Structure	6802			
		Animal physiology/Animal behavior	6803			
		Genetics/Chromosome dynamics	6804			
		Evolutionary biology	6805			
		Biodiversity/Systematics	6806			
		Ecology/Environment	6807			
Anthropology		Physical anthropology	6901			
		Applied anthropology	6902			
Agricultural sciences	Plant production and environmental agriculture	Science in genetics and breeding	7001			
		Crop production science	7002			
		Horticultural science	7003			
		Plant protection science	7004	A B		
	Agricultural chemistry	Plant nutrition/Soil science	7101			
		Applied microbiology	7102			
		Applied biochemistry	7103			
		Bioorganic chemistry	7104			
		Food science	7105	※		
	Forest and forest products science	Forest science	7201			
		Wood science	7202			
	Applied aquatic science	Aquatic bioproduction science	7301	A B		
		Aquatic life science	7302			
	Agricultural science in management and economy	Agricultural science in management and economy	7401			
		Agricultural science in rural society and development	7402			
	Agro-engineering	Rural environmental engineering/Planning	7501			
		Agricultural environmental engineering/Agricultural information engineering	7502	A B		
	Animal life science	Animal production science	7601	A B		
		Veterinary medical science	7602	A B		
		Integrative animal science	7603	A B		
	Boundary agriculture	Insect science	7701			
		Environmental agriculture(including landscape science)	7702	A B		
		Applied molecular and cellular biology	7703			
	Medicine, dentistry, and pharmacy	Pharmacy	Chemical pharmacy	7801		
			Physical pharmacy	7802		
			Biological pharmacy	7803		
			Pharmacology in pharmacy	7804		
Natural medicines			7805			
Drug development chemistry			7806			
Environmental and hygienic pharmacy			7807			
Medical pharmacy			7808	※		
Medicine, dentistry, and pharmacy			Basic medicine	General anatomy (including histology/embryology)	7901	※
				General physiology	7902	
	Environmental physiology (including physical medicine and nutritional physiology)	7903				
	General pharmacology	7904				
	General medical chemistry	7905				
	Pathological medical chemistry	7906				
	Human genetics	7907				
	Human pathology	7908		※		
	Experimental pathology	7909		※		
	Parasitology (including sanitary zoology)	7910				
	Bacteriology (including mycology)	7911				
	Virology	7912				
	Immunology	7913				
	Boundary medicine	Medical sociology		8001		
		Applied pharmacology		8002		
		Laboratory medicine	8003	※		
		Pain science	8004			
		Medical Physics and Radiological Technology	8005			
	Society medicine	Epidemiology and preventive medicine	8101	※		
		Hygiene and public health	8102	※		
		Medical and hospital management	8103			
		Legal medicine	8104			
	Clinical internal medicine	General internal medicine (including psychosomatic medicine)	8201			
		Gastroenterology	8202	※		
		Cardiovascular medicine	8203	※		
		Respiratory organ internal medicine	8204	※		
		Kidney internal medicine	8205	※		
		Neurology	8206	※		
		Metabolomics	8207	※		
		Endocrinology	8208			
		Hematology	8209	※		
		Collagenous pathology/ Allergology	8210	※		
		Infectious disease medicine	8211			
		Pediatrics	8212	※		
		Embryonic/Neonatal medicine	8213			
		Dermatology	8214	※		
		Psychiatric science	8215	※		
		Radiation science	8216	※		
		Clinical surgery	General surgery	8301	※	
			Digestive surgery	8302	※	
			Cardiovascular surgery	8303	※	
			Respiratory surgery	8304	※	
	Neurosurgery		8305	※		
	Orthopaedic surgery		8306	※		
	Anesthesiology		8307	※		
	Urology		8308	※		
	Obstetrics and gynecology		8309	※		
	Otorhinolaryngology		8310	※		
	Ophthalmology		8311	※		
	Pediatric surgery		8312			
	Plastic surgery		8313			
	Emergency medicine		8314			
	Dentistry		Morphological basic dentistry	8401		
		Functional basic dentistry	8402			
		Pathobiological dentistry/ Dental radiology	8403			
Conservative dentistry		8404				
Prosthodontics/ Dental materials science and engineering		8405	※			
Dental engineering/ Regenerative dentistry		8406				
Surgical dentistry		8407	※			
Orthodontics/Pediatric dentistry		8408	※			
Periodontology		8409				
Social dentistry		8410	※			
Nursing	Fundamental nursing	8501	※			
	Clinical nursing	8502	※			
	Lifelong developmental nursing	8503	※			
	Gerontological nursing	8504	※			
	Community health nursing	8505	※			