

# List of Categories, Areas, Disciplines and Research Fields

## (1) List of Categories, Areas, Disciplines and Research Fields for FY2010 Grants-in-Aid for Scientific Research

### Category: Integrated Science and Innovative Science

Area	Discipline	Research Field	Item Number	Remark	
Comprehensive fields	Informatics	Fundamental theory of informatics	1001		
		Software	1002		
		Computer system/Network	1003	A B	
		Media informatics/Database	1004	A B	
		Intelligent informatics	1005		
		Perception information processing/Intelligent robotics	1006	A B	
		Sensitivity informatics/Soft computing	1007	A B	
		Library and information science/Humanistic social informatics	1008	A B	
		Cognitive science	1009		
		Statistical science	1010		
		Bioinformatics/Life informatics	1011	A B	
		Cerebral Neuroscience	Neuroscience in general	1101	
			Nerve anatomy/Neuropathology	1102	A B
	Neurochemistry/Neuropharmacology		1103		
	Neurophysiology and muscle physiology		1104	A B	
	Fusional basic brain science		1105		
	Fusional brain recording science		1106		
	Fusional social brain science		1107		
	Laboratory animal science	Laboratory animal science	1201		
	Biomedical engineering	Biomedical engineering/Biological material science	1301	A B	
		Medical systems	1302		
	Health/Sports science	Rehabilitation science/Welfare engineering	1303	A B	
		Physical education	1401	A B	
		Sports science	1402	A B	
	Human life science	Applied health science	1403	A B	
		General human life sciences	1501	A B	
		Eating habits, studies on eating habits	1502	A B	
	Science education/Educational technology	Science education	1601	※	
		Educational technology	1602	※	
	Sociology/History of science and technology	Sociology/History of science and technology	1701		
	Cultural property science	Cultural property science	1801		
	Geography	Geography	1901		
	Oncology	Carcinogenesis	1951		
		Tumor biology	1952		
		Tumor immunology	1953		
Tumor diagnosis		1954			
Clinical oncology		1955			
	Cancer epidemiology and prevention	1956			

Area	Discipline	Research Field	Item Number	Remark
New multidisciplinary fields	Environmental science	Environmental dynamic analysis	2001	
		Environmental impact assessment/Environmental policy	2002	A B
		Risk sciences of radiation/Chemicals	2003	A B
		Environmental technology/Environmental materials	2004	A B
	Nano/Micro science	Nanostructural science	2101	A B
		Nanomaterials/Nanobioscience	2102	A B
		Microdevices/Nanodevices	2103	A B
	Social/Safety system science	Social systems engineering/Safety system	2201	A B
		Natural disaster science	2202	A B
	Genome science	Genome biology	2301	
		Medical genome science	2302	
		System Genome Science	2303	
	Living organism molecular science	Applied Genomics	2304	A B
		Living organism molecular science	2401	
	Resource conservation science	Resource conservation science	2501	
	Area studies	Area studies	2601	
	Gender	Gender	2701	

### Category: Humanities and Social Sciences

Area	Discipline	Research Field	Item Number	Remark
Humanities	Philosophy	Philosophy/Ethics	2801	
		Chinese philosophy	2802	
		Indian philosophy/Buddhist studies	2803	
		Religious studies	2804	
		History of thought	2805	
		Aesthetics/Art history	2806	
	The arts	Study of the arts/History of the arts/Arts in general	2851	
	Literature	Japanese literature	2901	
		Literature in English	2902	
		European literature	2903	
		Literatures/Literary theories in other countries and areas	2904	
	Linguistics	Linguistics	3001	※
		Japanese linguistics	3002	
		English linguistics	3003	
		Japanese language education	3004	
		Foreign language education	3005	※
	History	Historical studies in general	3101	
		Japanese history	3102	
		Asian history	3103	
		History of Europe and America	3104	
Archaeology		3105		
Human geography	Human geography	3201		
Cultural anthropology	Cultural anthropology/Folklore	3301		

## (Category: Humanities and Social Sciences)

Area	Discipline	Research Field	Item Number	Remark
Social sciences	Law	Fundamental law	3401	
		Public law	3402	
		International law	3403	
		Social law	3404	
		Criminal law	3405	
		Civil law	3406	
		New fields of law	3407	
	Politics	Politics	3501	
		International relations	3502	
	Economics	Economic theory	3601	
		Economic doctrine/ Economic thought	3602	
		Economic statistics	3603	
		Applied economics	3604	
		Economic policy	3605	
		Public finance/ Monetary economics	3606	
		Economic history	3607	
	Business administration	Business administration	3701	※
		Commerce	3702	
		Accounting	3703	
	Sociology	Sociology	3801	※
		Social welfare and social work studies	3802	
	Psychology	Social psychology	3901	
		Educational psychology	3902	
		Clinical psychology	3903	
		Experimental psychology	3904	
	Education	Education	4001	※
		Sociology of education	4002	
Education on school subjects and activities		4003	※	
Special needs education		4004		

## Category: Science and Engineering

Mathematical and physical sciences	Mathematics	Algebra	4101	※	
		Geometry	4102		
		General mathematics (including Probability theory/ Statistical mathematics)	4103		
		Basic analysis	4104		
		Global analysis	4105		
		Astronomy	Astronomy	4201	
	Physics	Particle/Nuclear/Cosmic ray/ Astro physics	4301	※	
		Condensed matter physics I	4302		
		Condensed matter physics II	4303	※	
		Mathematical physics/ Fundamental condensed matter physics	4304		
		Atomic/Molecular/ Quantum electronics	4305		
		Biophysics/Chemical physics	4306		
		Earth and planetary science	Solid earth and planetary physics	4401	
	Meteorology/Physical oceanography/Hydrology		4402		
	Space and upper atmospheric physics		4403		
	Geology		4404		
	Stratigraphy/Paleontology		4405		
	Petrology/Mineralogy/ Science of ore deposit		4406		
	Geochemistry/Astrochemistry		4407		
	Plasma science	Plasma science	4501		
	Chemistry	Basic chemistry	Physical chemistry	4601	
			Organic chemistry	4602	
			Inorganic chemistry	4603	
		Applied Chemistry	Analytical chemistry	4701	
			Synthetic chemistry	4702	
			Polymer chemistry	4703	
			Functional materials chemistry	4704	
Environmental chemistry			4705		
Chemistry related to living body			4706		
Materials chemistry		Functional materials/Devices	4801		
		Organic industrial materials	4802		
		Inorganic industrial materials	4803		
		Polymer/Textile materials	4804		

Area	Discipline	Research Field	Item Number	Remark
Engineering	Applied physics	Applied materials science/ Crystal engineering	4901	
		Thin film/Surface and interfacial physical properties	4902	
		Applied optics/Quantum optical engineering	4903	
		Applied physics, general	4904	
		Engineering fundamentals	4905	
	Mechanical engineering	Materials/Mechanics of materials	5001	
		Production engineering/ Processing studies	5002	
		Design engineering/ Machine functional elements/ Tribology	5003	
		Fluid engineering	5004	
		Thermal engineering	5005	
		Dynamics/Control	5006	
		Intelligent mechanics/ Mechanical systems	5007	
	Electrical and electronic engineering	Power engineering/ Power conversion/ Electric machinery	5101	
		Electronic materials/ Electric materials	5102	
		Electron device/ Electronic equipment	5103	
		Communication/Network engineering	5104	
		System engineering	5105	
		Measurement engineering	5106	
		Control engineering	5107	
	Civil engineering	Civil engineering materials/ Construction/ Construction management	5201	
		Structural engineering/ Earthquake engineering/ Maintenance management	5202	
		Geotechnical engineering	5203	
		Hydraulic engineering	5204	
		Civil engineering project/ Traffic engineering	5205	
		Civil and environmental engineering	5206	
		Architecture and building engineering	Building structures/materials	5301
	Architectural environment/equipment		5302	
	Town planning/Architectural planning		5303	
	Architectural history/design		5304	
	Material engineering	Physical properties of metals	5401	
		Inorganic materials/ Physical properties	5402	
		Composite materials/ Physical properties	5403	
		Structural/Functional materials	5404	
Material processing/treatments		5405		
Metal making engineering		5406		
Process engineering	Properties in chemical engineering process/Transfer operation/Unit operation	5501		
	Reaction engineering/ Process system	5502		
	Catalyst/Resource chemical process	5503		
Integrated engineering	Biofunction/Bioprocess	5504		
	Aerospace engineering	5601		
	Naval and maritime engineering	5602		
	Earth system and resources engineering	5603		
	Recycling engineering	5604		
Nuclear fusion studies	5605			
Nuclear engineering	5606			
Energy engineering	5607			

**Category: Biological Sciences**

Area	Discipline	Research Field	Item Number	Remark	Area	Discipline	Research Field	Item Number	Remark	
Biology	Basic biology	Genetics/Genome dynamics	5701		Medicine, dentistry, and pharmacy	Boundary medicine	Medical sociology	7001		
		Ecology/Environment	5702				Applied pharmacology	7002		
		Plant molecular biology/ Plant physiology	5703				Laboratory medicine	7003		
		Biological science	Morphology/Structure	5704			Society medicine	Hygiene	7101	
			Animal physiology/ Animal behavior	5705				Public health/Health science	7102	
			Biodiversity/Systematics	5706				Legal medicine	7103	
	Anthropology	Structural biochemistry	5801			Clinical internal medicine	General internal medicine (including psychosomatic medicine)	7201		
		Functional biochemistry	5802				Gastroenterology	7202	※	
		Biophysics	5803				Circulatory organs internal medicine	7203	※	
		Molecular biology	5804				Respiratory organ internal medicine	7204	※	
		Cell biology	5805				Kidney internal medicine	7205	※	
		Developmental biology	5806				Neurology	7206	※	
	Agricultural sciences	Agriculture	Evolutionary biology	5807				Metabolomics	7207	※
			Physical anthropology	5901				Endocrinology	7208	
			Applied anthropology	5902				Hematology	7209	※
Agricultural chemistry			Breeding science	6001			Collagenous pathology/ Allergology	7210	※	
			Crop science/Weed science	6002			Infectious disease medicine	7211		
		Horticulture/Landscape architecture	6003		Pediatrics		7212	※		
		Plant pathology	6004		Embryonic/Neonatal medicine		7213			
		Applied entomology	6005		Dermatology		7214	※		
Forestry		Plant nutrition/Soil science	6101		Psychiatric science		7215	※		
		Applied microbiology	6102		Radiation science	7216	※			
		Applied biochemistry	6103		Clinical surgery	General surgery	7301	※		
		Bioproduction chemistry/ Bioorganic chemistry	6104			Digestive surgery	7302	※		
		Food science	6105			Thoracic surgery	7303	※		
Fisheries science		Forest science	6201			Cerebral neurosurgery	7304	※		
		Wood science	6202			Orthopaedic surgery	7305	※		
Agro-engineering	General fisheries	6301		Anesthesiology/Resuscitation studies	7306	※				
	Fisheries chemistry	6302		Urology	7307	※				
	Agro-economics	6401		Obstetrics and gynecology	7308	※				
	Zootechnical science/ Veterinary medical science	Irrigation, drainage and rural engineering/Rural planning	6501		Otorhinolaryngology	7309	※			
		Agricultural environmental engineering	6502		Ophthalmology	7310	※			
Agricultural information engineering		6503		Pediatric surgery	7311					
Boundary agriculture	Zootechnical science/ Grassland science	6601		Plastic surgery	7312					
	Applied animal science	6602		Emergency medicine	7313					
	Basic veterinary science/ Basic zootechnical science	6603		Dentistry	Morphological basic dentistry	7401				
	Applied veterinary science	6604			Functional basic dentistry	7402				
	Clinical veterinary science	6605			Pathobiological dentistry/ Dental radiology	7403				
Pharmacy	Boundary agriculture	6701			Conservative dentistry	7404				
	Applied molecular and cellular biology	6702			Prosthetic dentistry	7405				
Medicine, dentistry, and pharmacy	Pharmacy	Chemical pharmacy	6801			Dental engineering/ Regenerative dentistry	7406			
		Physical pharmacy	6802			Surgical dentistry	7407	※		
		Biological pharmacy	6803		※	Orthodontic/Pediatric dentistry	7408			
		Drug development chemistry	6804			Periodontal dentistry	7409			
		Environmental pharmacy	6805			Social dentistry	7410			
		Medical pharmacy	6806		Nursing	Fundamental nursing	7501			
	Basic medicine	General anatomy (including histology/embryology)	6901	※		Clinical nursing	7502			
		General physiology	6902			Lifelong developmental nursing	7503			
		Environmental physiology (including physical medicine and nutritional physiology)	6903			Community health/ Gerontological nursing	7504	※		
		General pharmacology	6904							
		General medical chemistry	6905							
		Pathological medical chemistry	6906							
		Human genetics	6907							
		Human pathology	6908	※						
		Experimental pathology	6909	※						
Parasitology (including sanitary zoology)		6910								
Bacteriology (including mycology)	6911									
Virology	6912									
Immunology	6913									