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

(1) Grants-in-Aid for Scientific Research FY2013 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 | |
| | Human informatics | Cognitive science | 1201 | |
| | | 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 | Philosophy | Philosophy/Ethics | 2901 | |
| | | Chinese philosophy/Indian philosophy/Buddhist studies | 2902 | ※ |
| | | Religious studies | 2903 | |
| | | History of thought | 2904 | |
| | Art studies | Aesthetics and studies on art | 3001 | |
| | | 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 | |
| | | Foreign language education | 3205 | ※ |
| | History | Historical studies in general | 3301 | |
| | | Japanese history | 3302 | |
| | | 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 | ※ |
| | | Commerce | 3902 | |
| | | Accounting | 3903 | |
| | Sociology | 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.

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

| Area | Discipline | Research Field | Item Number | Remark |
|------|-----------|----------------|-------------|--------|
| 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 | |
| | | General applied physics | 4406 | |
| | Quantum beam science | 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/Resorce 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 society 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 | A |
| | | Environmental and hygienic pharmacy | 7807 | |
| | | Medical pharmacy | 7808 | ※ |

| Area | Discipline | Research Field | Item Number | Remark |
|---|---|---|---|---|
| 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 | |
| | 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 | |