Attached Table 3 Appendix Table of Keywords "Categories, Areas, Disciplines and Research Fields"

1) The first stage of the screening of the research fields followed by A or B in each category of the division column is carried out in two separate groups. The basis for this division in two groups is the keywords shown in all the research categories (except for "Overseas Academic Research"). Make sure to select A or B based on the keyword, when applying for the research fields in the list.

2) The first stage of the screening of the research fields followed by the numbers 1 to 5 in each category of the division column is carried out in separate groups. The basis for this division in separate groups is the keywords shown in "Scientific Research (C)". Make sure to select a number from 1 to 5 based on the keyword, when applying for the research fields in the list for "Scientific Research (C)".

Category: Integrated Disciplines

Area: Informatics

Discipling Principles of Informatics

(Discipline: Principles of Informatics)

	ne: Principl	es of	f Informatics	scipline: Princip	les o		
Item Number Re	esearch Field		Screening Sub-panel Number / Keyword	Item Number	Research Field		Screening Sub-panel Number / Keyword
	T	1	Theory of computation] -		1	Programming language
	Theory of	2	Automata theory / Formal language theory]		2	Programming methodology
		3	Mathematical theory of programs]		3	Programming language processor
		4	Computational complexity theory]		4	Parallel distributed computing
1001 The		5	Algorithm theory]		5	Operating system
info	formatics	6	Cryptosystem]		6	High-dependable system
		7	Discrete structure	1102	Software	7	Virtualization technology
		8	Computational learning theory			8	Software security
		9	Theory of quantum computation			9	Cloud computing infrastructure
		10	Mathematical logic			10	Software engineering
		1	Optimization theory			11	Specification and verification
		2	Mathematical finance			12	Development environment
		3	Mathematical system theory			13	Development management
		4	System control theory			1	Network architecture
1002 Ma	athematical	5	System analysis			2	Network protocol
info	ormatics	6	System methodology			3	Mobile network
		7	System modeling	11		4	Overlay network
		8	System simulation	1103	Information	5	Sensor network
		9	Combinatorial optimization	1 1103	network	6	Traffic engineering
		10	Queueing theory			7	Network management technology
		1	Research survey and experimental design]		8	Ubiquitous computing
		2	Multivariate analysis			9	Service prosivion infrastructure
		3	Time series analysis			10	Information home appliances
		4	Classification and pattern recognition			1	Data model
		5	Statistical inference]		2	Relational database
		6	Computational statistics and computer aided			3	Database system
		0	statistics]		4	Multimedia information acquisition
Sto	ntistical	7	Statistical prediction and control			5	Multimedia information processing
110031	ence	8	Model selection	1104	Multimedia	6	Multimedia information representation
SCIC	CHCC	9	Pharmaceutical / genome statistical analysis] 1104	database	7	Multimedia information generation
		10	Behaviormetrics]		8	Information retrieval
		11	Spatial / environmental statistics]		9	Structured document
		12	Statistics education]		10	Content distribution and management
		13	Statistical quality control			11	Geographic information system
		14	Statistical learning theory] [12	Metadata
		15	Social research and analysis plan]		1	Parallel processing
		16	Data science]		2	Distributed processing
					High	3	Grid and Cloud computing
Disciplin	ne: Principl	es of	f Informatics	1105	performance	4	Numerical analysis
Itom				1 1			•

Item Number	Research Field	Screening Sub-panel Number / Keyword					
		1	Computer architecture				
		2	Circuit and system				
		3	LSI design technology				
1101	Computer	4	Reconfigurable system				
1101	system	5	High-dependable architecture				
		6	Low power technology				
		7	hardware / software co-design				
		8	Embedded system				

computing

Visualization Computer graphics

7 High performance computing application

(Discipline: Principles of Informatics)

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Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Access control
		2	Personal identification
		3	Cryptography
		4	Authentication
	Information	5	Security evaluation / audit
1106	security	6	Virus countermeasure
	security	7	Network security
		8	Unauthorized access countermeasure
		9	Software protection
		10	Privacy protection
		11	Information filtering

Discipline: Human informatics

Item Number	Research Field	Screening Sub-panel Number / Keyword			
		1 Evolution, development, learning			
		2 Cognition, memory, education			
		3 Thought, inference, problem solving			
		4 Sensation, perception, kansei			
		5 Emotion / Feeling / Behavior			
		6 Cognitive psychology			
		7 Comparative cognitive psychology			
	G	8 Cognitive philosophy			
1201	Cognitive	9 Brain cognitive science			
	science	10 Cognitive linguistics			
		11 Comparative decision making theory			
		12 Cognitive engineering			
		13 Cognitive archaeology			
		14 Cognitive model			
		15 Sociability			
		16 Law and psychology			
		17 Safety and human factor			
		1 Pattern recognition			
		2 Image processing			
		3 Computer vision			
		4 Computational photography			
		5 Human measurement			
		6 Intelligent image editing			
	Perceptual	7 Visual media processing			
1202	information	8 Image database			
	processing	9 Speech processing			
		10 Acoustic information processing			
		11 Speech / Sound database			
		12 Information sensing			
		13 Sensor fusion			
		14 Sensing devices / systems			
		15 Tangible sensing			
		1 Human interface			
		2 Multi-modal interface			
		3 Human-computer interaction			
		4 CSCW			
		5 Groupware			
1202	Human	6 Virtual reality			
1203	interface and interaction	7 Augmented Reality			
	meracuon	8 Mixed reality			
		9 Realistic communication			
		10 Wearable device			
		11 Usability			
		12 Ergonomics			

(Discipline: Human informatics)

Item	cipline: Human informatics) Research Field Screening Sub-panel Number / Keyword					
Number	Research Field	1 [
		\vdash	, ,			
		\vdash	Machine learning			
		\vdash	Knowledge acquisition			
		\vdash	Knowledge-based system			
	Intelligent	\vdash	Intelligent system architecture			
1204	Intelligent informatics	\vdash	Intelligent information processing			
		\vdash	Natural language processing			
		\vdash	Rnowledge discovery and data mining			
		\vdash	Ontology			
			Human-agent interaction			
		\neg	1 Multi-agent system			
			Neural network			
		1	Genetic algorithm			
	Soft	3	Fuzzy theory			
1205	computing		Chaos			
			Fractal			
		6	6 Complex systems			
		1	Probabilistic information processing			
		_1	Intelligent robot			
		2	Behavior and environment recognition			
		3	Motion planning			
	Intelligent	4	Sensory behavior system			
1206	Intelligent robotics	5	Autonomous system			
	Tobotics	6	Digital human model			
		1	Real world information processing			
		8	Physical agents			
		٥	Intelligent roomAnimation			
			Kansei design			
		2	Kansei expression			
		3	Kansei recognition			
		4	Kansei cognitive science, Kansei phychology			
		5	Kansei robotics			
		6	Kansei measurement evaluation			
		7	Ambiguity and kansei			
		8	Kansei information processing			
		Š	Kansei database			
1207	Kansei	1	0 Kansei interface			
	informatics	1	1 Kansei physiology			
		1	Kansei material products			
			Sensitivity industry			
		1	4 Kansei environmental science			
		1	5 Kansei sociology			
		-	6 Kansei philosophy			
		-	7 Kansei pedagogy			
		\vdash	8 Kansei brain science			
		\vdash	9 Kansei management			

Discipline: Frontiers of informatics

(Discipline: Frontiers of informatics)

Item	ipline: Frontie	10		1			atiers of informatics)				
Number	Research Field	-	_	Screening Sub-panel Number / Keyword	Number	Research Field	Ļ	_	Screening Sub-panel Number / Keyword		
		L	1	Bioinformatics			Α	[L	ibrary and information science]		
		L	2	Genome information processing				1	Library science		
		L	-	Proteome information processing				2			
		-		Computer simulation				3	Library information systems		
		-	_	Life informatics				_	Digital archives		
			6	Biological information				5	Information organization		
		F		Neuroinformatics				6	Information retrieval		
	Life / Health /		8	Neural information processing				7	Information media		
1301	Medical		9	Artificial life system				8	Bibliometrics and scientometrics		
	informatics	-		Molecular computing				9			
			_	DNA computing		Library and	Ш	Ĺ	resources		
				Medical information		information	В	ò	[umanistic social informatics]		
			_	Diagnostic imaging	41	science/		10	Information ethics		
				Remote diagnosis and treatment	1303	Humanistic		11			
		L	-	Sanitation information		social		⊢	Literature information		
		⊢	_	Health information		informatics		⊢	Historical information		
		-	_	Medical image]			-	Information sociology		
				Intracellular logistics analysis				15	Law information		
		A [W	eb informatics]				⊢	Information economics		
				Web system					Management information		
			2	Web computing				_	Educational information		
			3	Social web				19	Art information		
			4	Semantic web				_	Medical information		
			_	Recommendation system				21	Science and technology information		
			-	Web service				-	Intellectual property information		
			7	Web mining				-	Geographic information		
		L	8	Web intelligence			┸	24	Local informatization		
		L		Social network analysis				1			
	Web informatics,			Netwrok community				2	2		
		В [_	rvice informatics]				3			
1302		-	_	Service engineering				4	Zearing content de veropinent support		
	Service	-	_	Service management		Learning		5	Learning management system		
	informatics	-	_	Quality of Service	1304	support		6			
		⊢	_	Queue		system		7	6		
		-		Business model				8	8-11		
		L	_	Service-oriented architecture				9	Project-based learning support system		
		- 1-		Knowledge management				_	e-Learning		
		L	_	Educational services			\perp	11	Use and evaluation		
		-	_	Medical welfare service				1	Music information processing		
		\vdash		Intelligent transport systems				2	Performance support		
		-	_	Financial service				3	3D content and animation		
		-	_	Social and environmental service		Entertainment		4	1 0 0		
		\vdash		Smart grid	1305	and game		5			
		- 2	24	Management of technology		informatics		6	Media art		
								7			
								8	8		
								9			
								10	Information culture		

Area: Environmental science

Discipline: Environmental analyses and evaluation

Item Number	Research Field			Screening Sub-panel Number / Keyword
			1	Environmental change
			2	Biogeochemical cycle
			3	Environmental measurements
			4	Environmental model
	Environmental		5	Environmental information
1401	dynamic		6	Global warming
	analysis		7	Global change of water cycle
			8	Environmental monitoring of the polar regions
			9	Chemical oceanography
			10	Biological oceanography
			11	Remote sensing
			1	Environmental radiation
			2	Protection
			3	Basic process
			4	Dosimetry and assessment
			5	Damage
	Risk sciences of radiation and	Α	6	Response
			7	Repair
1402			8	Sensitivity
	chemicals			Impact on life
	Chemicais		10	Risk assessment
			11	Radiation management and control
		В	12	Toxicology
				Toxic substance to human
		ъ	14	Estimation of trace chemicals pollution
			15	Endocrine disrupting substances
			1	Terrestrial, aquatic, and atmospheric impact assessment
			2	Impact assessment on ecosystem
				Impact assessment methods
	Environmental		4	Impact assessment on human health
1403	impact			Environmental impact assessment on the future
1403	assessment		5	generation
			6	Human activities in polar regions
			7	Environmental monitoring
			8	Model simulation
			9	Environmental impact assessment

Discipline: Environmental conservation

Item Number	Research Field	Screening Sub-panel Number / Keyword				
	Environmental		1	Reduction of wastewater, exhaust gas and solid wastes		
	engineering		2	Appropriate treatment and disposal		
1501	and reduction		3	Closed process and integrated pollution control		
1301	of		4	Pollutants separation and removal technologies		
	environmental		5	Control of noise, vibration and ground subsidence		
	burden		6	Environmental analysis		
			7	Simplified analysis and monitoring		
			1	Environmental impact analysis		
	Modeling and		2	Environmental pollution survey and evaluation		
	technologies for		3	Pollutants removal and remediation technologies		
1502	environmental conservation		4	Monitoring and modeling of pollutants behavior in environment		
	and remediation		5	Biological treatment and remediation		
	remediation		6	Impact on environment and ecosystem		
			7	Surface water, ground water and soil		

(Discipline: Environmental conservation)

	onne: Environmental conservation)						
Research Field		Screening Sub-panel Number / Keyword					
	1	Design and production of recycle materials					
	2	Reduction, reuse, recycle (3R)					
	3	Recovery of valuables					
Environmental	4	Separation and purification					
conscious	5	Appropriate treatment and disposal					
materials and	6	Recycling and life cycle assessment(LCA)					
recycle	7	Environmental conscious design					
	8	Green productions					
	9	Zero-emission					
	10	Chemistry for material recycle					
		Identification and analytical evaluation of					
	1	pollutants					
	2	Monitoring					
		Transport, diffusion and accumulation of					
	3	pollutants					
	4	Environmental criteria and standards					
	5	Life environment and health items					
	6	Emission quality standards					
	7	Evaluation of cross-border pollution					
evaluation	8	Chemicals management					
	9	Exposure scenario					
	10	Risk evaluation					
	11	Precautionaly principle					
	12	Biodegradation and bioaccumulation					
	13	Genetic and ecological toxicities					
	14	Risk communication					
	Environmental conscious	Environmental conscious materials and recycle Environmental fisk control and evaluation Environmental fisk control and evaluation Environmental fisk control and fisk control					

Discipline: Sustainable and environmental system development

Item Number	Research Field	Screening Sub-panel Number / Keyword					
			1	Biodiversity			
			2	Ecosystem functions and services			
			3	Ecological risks			
			4	Ecosystem impact analysis			
1601	Environmental		5	Ecosystem management and conservation			
1001	and ecological symbiosis		6	Remote sensing			
	symolosis		7	Landscape and ecosystem			
			8	Rehabilitation of environment ecosystem			
			9	Mitigation			
			10	Ecological engineering			
			1	Sound material recycle system			
			2	Low carbon society			
			3	Renewable energy			
	Design and		4	Biomass utilization			
	evaluation of sustainable and		5	Design and planning of environmental			
1602	environmental		5	conscious areas			
	conscious		6	Water resources and water use system			
	system		7	Industrial symbiosis			
			8	Material and energy flow analysis			
			9	Life cycle assessment (LCA)			
			10	Integrated pollution prevention and control			

Area: Complex systems

(Discipline: Sustainable and environmental system development)

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Environmental philosophy and ethics
		2	Environmental justice
		3	Environmental economics
		4	Environmental laws
		5	Environmental information
		6	Environmental geographical information
	Environmental policy and social systems	7	Environmental education
1602		8	Environmental management
1003		9	Environment and social activities
		10	Environmental standard and auditing
		11	Consensus forming
		12	Environmental safety and security
		13	Corporate social responsibility
		14	Social and economical system
		15	Public system and management
		16	Sustainable development

Discipline: Design science

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Information design(Communication, media, contents, interaction, interface)
		2	Environmental design (Architecture, Urban, Landscape)
		3	Industrial design (Product design, universal design)
	Design science	4	Art
1651		5	Aesthetics
	sciciec	6	Design history
		7	Theory for design
		8	Design standard
		9	Design support
		10	3D modeling & acoustic modeling
		11	Analysis & evaluation for design
		12	Design education

Discipline: Human life science

Item Number	Research Field	Screening Sub-panel Number / Keyword
		1 Family resource management
		2 Family finance and consumer issues
		3 Family
		4 Lifestyle
		5 Information for living
		6 Human life and culture
		7 Life of the elderly
1701	Home economics/	8 Well-being for individual and family
1/01	Human life	9 Child care, Child rearing
	Human me	10 Home economics education
		11 Consumer education
		12 Philosophy of home economics
		13 Materials and goods for living
		14 Design for living
		Manufacturing , Skills of making products for
		daily life
		1 Human life and clothing
		2 Clothing and environment
		3 Dyeing and finishing treatment
		4 Clothing design and manufacturing
		5 Clothing materials
		6 History of costume
		7 Clothing culture
		8 Clothing psychology
		9 Dwelling life
	GI II	10 Planning of housing
1702	Clothing	11 Housing management
1702	life/Dwelling life	12 Housing history
	ine	13 Interior, housing and living environment design
		14 Dwelling environment and equipment
		15 Housing structure and material
		16 City planning and community policy
		17 Child-raising environment
		18 Housing for the elderly
		Housing environment for the elderly and people
		with disabilities
		20 Dwelling culture
		21 Housing information and housing education

(Discipline: Human life science)

Item Number	Research Field	Screening Sub-panel Number / Keyword			
		A [Food and cooking]			
		1 Cooking and processing			
		2 Food storage			
		3 Sensory evaluation			
		4 Food materials			
		5 Cooking and functional constituent			
		6 Food service			
		7 Food culture			
		8 Texture			
		9 Mastication and swallowing			
1703	Eating habits	B [Diet and health]			
		10 Health and dietary life			
		11 Diet and nutrition			
		12 Dietary education			
		13 Dietary habits			
		14 Dietary behavior			
		15 Dietary information			
		16 Food with health claims			
		17 Food and environment			
		18 Diet evaluation			
		19 Food management			

Disci	Discipline: Science education/Educational technology								
Item Number	Research Field			Screening Sub-panel Number / Keyword					
			1	Higher education(Mathematics, Physics, Chemistry, Biology, Information science, Astronomy, Earth and planetary science, Interdisciplinary science)					
		1	2	Elementary and secondary education(Arithmetic · Mathematics, Natural science, Information science)					
1801	Science		3	Engineering education					
	education		4	Science literacy					
		2	5	Experiment/Observation					
			6	Science education curriculum					
			7	Environmental education					
				Industrial technology education					
			9	Science and sociocultural aspect					
			_	Science teacher training					
			11	Science communication					
		1	1	Curriculum/Pedagogy development					
				Teaching-learning support systems					
				Distributed collaborative learning system					
				Human interface					
				Instructional materials information system					
	Educational		_	Utilization of media					
1802	technology			Distance education					
	teemiology			E-learning					
		2		Information-related education					
			_	Media education					
			_	Learning environment					
				Teacher's education					
			13	Classroom instruction					

Discipline: Sociology/History of science and technology

Disc	iphne. Sociology/Thistory of science and technology					
Item Number	Research Field	Screening Sub-panel Number / Keyword				
		1	Sociology of science			
	Sociology/	2	History of science			
	History of	3	History of technology			
1901	science	4	Medical history			
	and technology	5	Industrial archaeology			
		6	Philosophy of science/Theory of science			
		7	Science, technology and society			

Discipline: Cultural assets study and museology

Item Number	Research Field			Screening Sub-panel Number / Keyword
			1	Dating methods
			2	Material analysis
			3	Production techniques
			4	Conservation science
		A	5	Archaeological prospection
			6	Plant and animal residues/Human remains
	Cultural assets study and museology		7	Cultural property/Cultural heritage
			8	Cultural resources
2001			9	Cultural property policy
		В	10	Museum Informatics
			11	Museum Education, Museum Pedagogy
			12	Museum Information Systems, Museum
			12	Informatics
			13	Museum Business Management
			14	Public Finance and Administration of Museums
			15	Museum Material Resources
			16	History of Museology

Discipline: Geography

Item Number	Research Field	Screening Sub-panel Number / Keyword		
		1	Geography in general	
		2	Land use/Landscape	
		3	Environmental system	
		4	Regional planning	
		5	Cartography/Regional geography/Geography education	
2101	Geography	6	Geomorphology	
		7	Climatology	
		8	Hydrology	
		9	Geographic information system	
		10	Remote sensing	
		11	Vegetation/Soil	
		12	Tourism	

Discipline: Social/Safety system science

Item Number	Research Field	Γ	Screening Sub-panel Number / Keyword			
		Α	[So	cial systems engineering]		
			1	Social engineering		
			2	Social system		
			3	Policy science		
			4	Development planning		
				Management engineering		
			6	Management system		
			7	Operations research		
			8	Quality control		
			9	Industrial engineering		
			10	Modeling		
			11	Logistics		
	Social		12	Marketing		
			13	Finance		
	systems		14	Project management		
2201	engineering/			Environmental management		
	Safety system	В	[Sa	fety system]		
	Sarcty system		16	Safety engineering		
			17	Safety concerning products, facilities, systems		
			18	Safety risk management		
			19	Crisis management		
			20	Fire and explosion prevention and protection		
			21	Safety information		
				Social technology for security (evacuation,		
			22	mass guidance, information distribution,		
				hazard map)		
				Risk-based engineering		
			24	Engineering diagnosis, regeneration,		
				maintenance management		
				Reliability of machinery and human		
		Ш	26	Occupational safety and health		

(Discipline: Social/Safety system science)

				,	
Item Number	Research Field	Screening Sub-panel Number / Keyword			
		Α	[Ea	rthquake and volcano disaster mitigation]	
			1	Seismic motion	
			2	Liquefaction	
			3	Active fault	
			4	Tsunami	
			5	Volcanic eruption	
			6	Volcanic ejecta/Debris flow	
			7	Seismic hazard	
			8	Volcanic hazard	
	Natural		9	Damage prediction/Analysis/Mitigation	
	disaster / Disaster		,	measures	
2202			10	Disaster mitigation and buildings	
2202	prevention	В	[Na	tural disasters]	
	science		11	Meteorological disasters	
	science		12	Hydrological disasters	
			13	Geo-hazard	
			14	Landslide	
			15	Drought	
			16	Snow and ice disasters	
			17	Natural disaster prediction/Analysis/Measures	
			18	Lifeline disaster prevention	
			19	Local disaster preparedness plan and policy	
			20	Rehabilitation and reconstruction engineering	
			21	Disaster risk assessment	

Item	Research Field	Γ		Screening Sub-panel Number / Keyword
Number	research i leiu	Α	ſΒi	omedical engineering]
				Medical imaging, Bioimaging
			2	Biological modeling, physiome
				Biological simulation
				Bioinformation and instrumentation
				Artificial Organs
				Engineering for regenerative medicine
				Biological properties
			8	Biomedical control and therapy
			9	Biomechanics
			_	Cell biomechanics
				Nano-Bio Systems
	Biomedical			Medical Physics
	engineering/			Biomedical Ultrasound
2301	Biomaterial			Physiologically active substances application
2301	science and			Bio-inspired system
	engineering			Radiological Technology and Engineering
		B		omaterial science and engineering]
				Biomaterials
				Biofunctional materials
			_	Cell and Tissue engineering Materials
				Biocompatible materials/Biosuitable materials
				Nano-biomaterials
				Materials for regenerative medicine and
			22	engineering
			23	Drug delivery system
				Stimuli-responsive materials
				Materials for genetic and nucleic acid
			25	engineering
		П	1	Medical Ultrasound System
			2	Medical imaging system
				Laboratory examination system
			4	Minimally invasive treatment system
2302	Medical		5	Remote diagnosis and treatment system
	systems		6	Organ preservation and treatment system
			7	Medical information system
			8	Computational surgery
			9	Medical robotics
		П	1	Regulartory Science
	Medical		2	Safety validation
2303	engineering		3	Clinical studies
	assessment		4	Biomedical engineering ethics
			5	Medical devices

(Discipline: Biomedical engineering)

Item	Research Field	ur	£				
Number	Research Field			Screening Sub-panel Number / Keyword			
		A	_	habilitation science]			
			1	Rehabilitation medicine			
			2	Disability science			
			3	Physical therapy			
			4	Occupational therapy science			
			5	Speech language and hearing therapy			
			6	Social welfare and health science			
			7	Artificial sensory organs			
	Rehabilitation science/			Gerontology			
			9	Clinical psychotherapy			
2304		В	[We	elfare engineering]			
2304	Welfare		10	Engineering for health and welfare			
	engineering		11	Technology for activities of daily living			
			12	Preventive care/Assistive technology			
			13	Normalization			
			14	Barrier-free system			
		-	15	Universal design			
			16	Robotics for welfare and nursing care			
			17	Technology for substituting biological function			
			18	Technical aid			
			19	Human interface			
			20	Nursing engineering			

Item Number	Research Field	Screening Sub-panel Number / Keyword
		A [Developmental mechanisms and the body works]
		1 Educational physiology
		2 Physical systems science
		3 Biological information analysis
		4 Higher brain function science
		5 Physical growth developmental science
		6 Sensory and motor development studies
		B [Mental and physical education and culture]
		7 Aesthetic education
		8 Physical environment theory
	Developmental	9 Kinetic theory of leadership
2401	mechanisms	10 Pedagogy of physical education
2401	and the body	11 Fitness
	works	12 Cultural theories of physical movement
		13 Philosophy of the body
		14 Life and death education
		15 Psychology of physical education
		16 Affective science
		17 Outdoor education
		18 Dance education
		19 Gender education
		20 Adult life stage elderly gymnastics
		21 Martial arts theory
		22 Motion adaptation life science
		A [Sports science]
		1 Sports philosophy
		2 Sports history
		3 Sports psychology
		4 Sports science management
		5 Sports pedagogy
		6 Training science
		7 Sports biomechanics
		8 Coaching
		9 Sports talent
2402	Sports	10 Sports for the disabled
2102	science	11 Sports sociology
		12 Sports environment
		13 Cultural anthropology of sport
		B [Medical and sport sciences]
		14 Sports physiology
		15 Sports biochemistry
		16 Sports nutrition
		17 Energy metabolism
		18 Training medical science
		19 Sports disorders
		20 Doping

(Discipline: Health/Sports science)

	erprine. Hearth	/ Sports science/					
Item Number	Research Field		Screening Sub-panel Number / Keyword				
		Α	[He	ealth education/Health promotion activities]			
			1	Health education			
			2	Health promotion			
			3	Safety propulsion/Safety education			
			4	Pedagogy of health education			
			5	Stress management			
			6	Smoking/Drug abuse prevention education			
			7	School health			
			8	AIDS and sex education			
2403	Applied		9	Health management			
2103	health science		10	Health information			
				Nutritional guidance			
			12	Physical and mental health			
				Leisure/Recreation			
		В	[Ap	pplied medical health]			
			14	Lifestyle diseases			
				Exercise prescription and exercise therapy			
				Aging			
			17	Sports medicine			
			18	Sports immunology			

Discipline: Childhood science

DISC	ipinic. Ciman	Jou s	ou science		
Item Number	Research Field	Screening Sub-panel Number / Keyword			
		1	Health/Growth		
		2	Development/Child care		
	Childhood	3	Exercise/Play		
	science	4	Human rights/Right		
2451	(childhood	5	Misconduct/Deviation		
	environment	6	Social environment		
	science)	7	Cultural environment		
		8	Physical environment		
		9	Educational environment		

Discipline: Biomolecular science

Item	Research Field	Screening Sub-panel Number / Keyword				
Number	Kesearch Fleid	٠.	, , , , , , , , , , , , , , , , , , , ,			
		1	Natural product chemistry			
		2	Secondary metabolite			
		3	Searching bioactive molecules			
		4	Chemical modification of biomolecules			
	Biomolecular	5	Biological function related substance			
2501	chemistry	6	Molecular mechanism of activity expression			
	Chemistry	7	Biosynthesis			
		8	Design and synthesis of bioactive molecule			
		9	Combinatorial chemistry			
		10	Chemical ecology			
		11	Metabolome			
		1	In vivo functional expression			
		2	Searching medicines			
		3	Searching diagnosis chemicals			
		4	Searching agricultural chemicals			
		5	Chemical library			
	Chemical	6	Structure-activity relationship			
2502		7	Chemical probes			
	biology	8	Molecular imaging			
		9	Biomolecule measurements			
		10	Intracellular chemical reactions			
		11	Molecular targeting drugs			
		12	Proteomics			
		13	Directed evolution			

Discipline: Brain sciences

	cipline: Brain sciences					
Item Number	Research Field	L		Screening Sub-panel Number / Keyword		
			1	Genome brain science		
			2	Epigenetics		
			3	Brain molecule profiling		
			4	Nano brain science		
			5	Chemical biology		
			6	Medicinal brain science		
			7	Brain function probe		
			8	Brain imaging		
		Α	9	Luminary brain science		
			10	Neuron glial cross-interaction		
			11	Brain function model animals		
			12	Brain function behavioral analysis		
2601	Basic / Social		13	Brain and rhythm		
2601	brain science		14	Sleep		
			15	Neuropsychology/Linguistic science		
				Neurological scinece		
			17	Science of Dementia		
			18	Communication		
		В	19	Human interaction		
			20	Social behavior		
			21	Development and education		
			22	Sensibility, affectivity and emotion		
				Values, reward and punishment		
				Motivation		
			25	Neuroeconomics and neuromarketing		
				Political brain science		
		Г	1	Brain morphology measurement		
			_	Functional /Non-invasive biometry		
			2	(measurement)		
			3	Real time brain blood flow measurement		
			4	Brain recordings		
	D !		5	Brain information reading (Decoding)		
2602	Brain		6	Sensory information		
	biometrics		7	Kinetic (motor) information		
			8	Cognitive information		
			9	Higher brain function measurement		
			10	Brain information processing		
				Brain function operation		
			_	Brain machine interface		
		_				

Category: Humanities and Social Sciences

Area: Humanities/Social sciences

Discipline: Area studies

Item Number	Research Field	Screening Sub-panel Number / Keyword		
		1 Europe		
		2 Russia/Slavic area		
		3 North America		
		4 Central and South America		
		5 East Asia		
		6 Southeast Asia		
2701	Area studies	7 South Asia		
		8 West Asia/Central Asia		
		9 Africa		
		10 Oceania		
		11 Global studies		
		12 Cross-regional comparative studies		
		13 Aid/Regional cooperation		

Discipline: Gender

DISC	pilile. Geliuei				
Item Number	Research Field	Screening Sub-panel Number / Keyword			
		1	Gender differences/Gender roles		
		2	Sexuality		
		3	Social thought/Social movements/History		
		4	Law/Politics		
		5	Economy/Labor		
		6	Social policy/Social welfare		
	2801 Gender	7	Body/Expression/Media		
2001		8	Science and technology/Medicine/Life Science		
2801		9	Education/Human development		
		10	Development		
		11	Violence/Prostitution		
		12	Cross-cultural comparison		
		13	Women's studies/Men's studies/Queer studies		
		14	Career		
		15	Gender equality		
		16	Comparative analysis among nations		

Area: Humanities

Discipline: Philosophy

Item Number	Research Field			Screening Sub-panel Number / Keyword
			1	Principles of philosophy/Specific theories of philosophy
			2	Principles of ethics/Specific theories of ethics
2901	Philosophy/		3	Western philosophy
2901	Ethics		4	Western ethics
			5	Japanese philosophy
			6	Japanese ethics
		Ц	7	Comparative philosophy
	Chinese		1	Chinese philosophy/Thought
	philosophy/	1	2	Chinese Buddhism
2902	Indian	1	3	Taoism
2702	philosophy/	Ц	4	Confucianism
	Buddhist studies	2	5	Indian philosophy/Thought
	studies	Ĺ	6	Buddhist studies/History of Buddhism
			1	Religious studies in general
	Religious		2	History of religions
2903	studies		3	Sociology of religion
	studies		4	Philosophy of religion
		Ц	5	Comparative study of religion
			1	History of Western thought
			2	History of Eastern and Japanese thought
			3	Comparative history of thought
2904	History of		4	History of religious thought
	thought		5	History of social thought
			6	History of political thought
			7	History of scientific thought
			8	History of art theory

Discipline: Art studies

Disci	pinic. Mi t stu	411	<i>-</i> 13	
Item Number	Research Field			Screening Sub-panel Number / Keyword
	Aesthetics	T	1	Aethetics
2001		ſ	2	Philosophy and theory of art
3001		ſ	3	Musicology and music history
	on art		4	Miscellaneous art studies
		T	1	Japanese and Eastern art history
	Fine art history	ſ	2	Western art history
2002		ſ	3	Comparative art history
3002		ſ	4	Iconology and religious art history
		ſ	5	Architecture history
			6	History of design, product design and clothing
			1	Cultural representation studies
			2	Pop culture
			3	Film studies
3003	Art at large	ſ	4	Performing arts
		ſ	5	Policy, arts management and creative industries
			6	Art practice, and musical and other performance
			7	Media arts
	3001 3002	Research Field Aesthetics and studies on art Fine art	Research Field Aesthetics and studies on art Fine art history	Aesthetics and studies on art 1 2 3 3002 Fine art history 4 5 6 6 6 6 6 6 6 6 6

Discipline: Literature

Disci	iscipine: Literature				
Item Number	Research Field	Screening Sub-panel Number / Keyword			
		Т	1	Japanese literature in general	
			2	Ancient literature (Nara and Heian periods) Medieval literature (Kamakura and Muromachi periods) Premodern literature (Edo period)	
			3		
3101	Japanese		4	Premodern literature (Edo period)	
3101	literature		5	Modern and contemporary literature (after Meiji Restoration)	
		Г	6	Kanbungaku (Chinese literature in Japan)	
			7	Bibliography and philology	
		Γ	8	Literary theory, criticism, and comparative literature	

(Discipline: Literature)

Item Number	Research Field	Screening Sub-panel Number / Keyword		
		1	English literature	
		2	American literature	
3102	Literature in	3	Other literatures in English	
3102	English	4	Literary theory, criticism, bibliography and philology	
		5	Comparative literature	
		1	French and Francophone literature	
		2	German literature	
		3	Russian and East European literature	
3103	European	4	Other European literature	
3103	literature	5	Western classics	
		6	Literary theory, criticism, bibliography and philology	
		7	Comparative literature	
		1	Chinese literature	
3104	Chinese	2	Bibliography and philology	
3104	literature	3	Literary theory and criticism	
		4	Comparative literature	
	I iterature in	1	Literary theory and criticism	
3105	Literature in	2	Comparative literature	
general	general	3	Literature in other languages and areas	

Discipline: Linguistics

Item Number	Research Field	L	Screening Sub-panel Number / Keyword				
			1	Phonetics			
			2	Phonology			
			3	Morphology			
			4	Syntax			
		1	5	Semantics			
			6	Pragmatics			
			7	Discourse analysis			
			8	Scripts and orthography			
			9	Lexicography			
2201	Linguistics		10	Sociolinguistics			
3201	Linguistics		11	Psycholinguistics			
			12	Biolinguistics			
			13	Historical linguistics			
			14	French linguistics			
		2	15	German linguistics			
			16	Chinese linguistics			
			17	Other languages			
			18	Endangered and minority languages			
			19	Neurolinguistics			
			20	Corpus linguistics			
			1	Phonetics/Phonology			
			2	Grammar			
			3	Morphology, Semantics			
	Iomomoso		4	Writing systems			
3202	Japanese linguistics		5	Stylistics			
	illiguistics		6	Dialect			
			7	Language in daily life			
			8	History of the Japanese language			
			9	History of Japanese linguistics			
			1	Phonetics/Phonology			
			2	Grammar			
	English		3	Morphology, Semantics			
3203	English			Stylistics			
	linguistics		5	History of the English language			
				History of English linguistics			
			7	Diversity of the English language			

(Discipline: Linguistics)

(DIS	cipline: Linguistics)					
Item Number	Research Field		Screening Sub-panel Number / Keyword			
			1	Systems of Japanese language education/ Language policy		
			2	Theories on qualified teachers/Classroom research		
			3	Teaching methods/Curriculum planning		
	Tomomoso		4	Theory of second language acquisition		
3204	Japanese language education		5	Educational technology/Teaching materials/Educational media in general		
	caucation		6	Mother tongue retention/Bilingual education		
			7	Cross-cultural understanding and intercultural communication		
			8	Japanese affairs		
			9	History of Japanese language education		
			10	Educational testing and evaluation		
		1 2	1	Teaching methods/Curriculum planning		
			2.	Educational technology/Teaching		
			2	materials/Educational media in general		
			3	e-Learning/Computer-assisted language learning		
			4	Theory of second language acquisition		
	Foreign	_	5	Early foreign language education		
3205	language		6	Foreign language education and language		
3203	education		Ů	policies		
	education	3	7	Theory and history of foreign language education		
			8	Educational testing and evaluation		
			9	Training foreign language teachers		
			10	Intercultural communication, translation and interpretation		

Discipline: History

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	World history
	Historical	2	History of cultural and diplomatic exchange
		3	Comparative history
3301	studies in	4	Comparative study of civilizations
3301	general	5	Globalization
	general	6	Environmental history
		7	History of islands and oceans
		8	Research in historical materials
		1	Ancient history (Nara and Heian periods)
	Japanese	2	Medieval history (Kamakura and Muromachi periods)
		3	Early modern history (Edo period)
		4	Modern and contemporary history (after the Meiji Restoration)
		5	Local history
3302		6	Cultural history
3302	history	7	Religious history
		8	Environmental history
		9	History of disasters
		10	Urban history
		11	Rural history
		12	Japanese history in general
		13	History of cultural and diplomatic exchange
		14	Research in historical materials

(Dis	Discipline: History)							
Item Number	Research Field		Screening Sub-panel Number / Keyword					
		1	Chinese history (Ancient, medieval, and early					
		1	modern periods)					
		2	Chinese history (Modern and contemporary					
			periods)					
		3	East Asian history					
	History of	4	Southeast Asian history					
3303	Asia and	5	Oceanian history					
5505	Africa	6	Bouth Fisher motory					
		7	West Asian/Islamic history					
		8	Central Eurasian history					
		9	i ii i i i i i i i i i i i i i i i i i					
		10	Comparative history/History of cultural and					
			diplomatic exchange					
		11	Tresearen in mistoriear materials					
		1	Ancient European history					
		2	Medieval European history					
		3	Modern and contemporary West European history					
	History of	4	Modern and contemporary East European history					
3304	Europe and	5	Modern and contemporary South European history					
	America	6	The second secon					
		7	1 torur and boatin's interioring					
		8	Comparative history/History of cultural and					
		-	diplomatic exchange					
		9	research in instorical materials					
		1	Archaeology in general					
		2						
		3						
		4	Japanese archaeology					
3305	Archaeology	5						
		6	Study of unclease ervineuclous					
		7	Study of material culture					
		8	Experimental archaeology					
		9	Research in buried cultural assets					
		10	Archaeological informatics					

Disci	pline: Human	Human geography					
Item Number	Research Field		Screening Sub-panel Number / Keyword				
		1	History of geography/Methodology				
		2	Economic geography/Transportation geography				
		3	Political geography/Social geography				
	Human geography	4	Cultural geography				
		5	Urban geography				
		6	Rural geography				
3401		7	Historical geography				
		8	Regional environment/Natural hazards				
		9	Geography education				
		10	Regional planning/Regional policy				
		11	Regional geography				
		12	Geographic information system				
		13	History of cartography				

Discipline: Cultural anthropology

	ipinic. Culturur untin opology				
Item Number	Research Field	Screening Sub-panel Number / Keyword			
		1 Cultural anthropology			
		2 Folklore			
		3 Ethnography			
		4 Social anthropology			
		5 Comparative folklore			
		6 Material culture			
		7 Prehistoric period/Historic period			
3501	Cultural anthropology	8 Arts/Performing arts			
3301		9 Religion/Rituals			
		10 Development/Aid			
		11 Health care			
		12 Migration/Border crossing			
		13 Minority			
		14 Ecology/Natural environment			
		15 Media			
		16 Body/ Sport			

Area: Social sciences

Discipline: law

Item	ipinie: iaw		G : G : 137 1 (YZ : 1
Number	Research Field		Screening Sub-panel Number / Keyword
			Legal philosophy/Legal theory
		-	Roman law
		3	Legal history
3601	Fundamental	4	Sociology of law
5001	law	5	Comparative law
		6	Foreign law
		7	Law and policy, Legislative studies
		8	Law and economics
		1	Constitutional law
		2	Administrative law
		3	Tax law
		4	Constitutional theory, History of constitution
			Constitutional litigation
3602	Public law		Comparative constitutional law, EU law
			Administrative organization law
			Administrative organization law
			Administrative procedure Administrative remedies
		_	International tax law
		_	Public international law
		-	
		-	Private international law
	International		International human rights, Nationality law
3603	law	_	Law of international organizations
	luv	-	International economic law
		6	International civil procedure
		_	International trade law
		1	Labor law
3604	Social law	2	Economic law
3004	Social law	3	Social security law
		4	Education law
		1	Criminal law
		2	Criminal procedure
		3	Criminology
3605	Criminal law		Criminal justice policy
		5	Juvenile law
		6	Law and psychology
			Civil law
		-	Commercial law
		3	Civil procedure
		-	
		-	Company law, Business corporate law Financial law
3606	Civil law	6	Securities law
		-	
		-	Insurance law
			Insolvency law
			Alternative dispute resolution
		_	Civil execution law
		-	Environmental law
		-	Medical law
		-	Information law, Media law
			Intellectual property law
		5	Law and gender
3607	New fields of	6	Law and education, Legal profession, Legal
3307	law	L	teaching
		7	Legal person, Trusts
		8	Consumer law
		9	Traffic law
		10	Land law, Housing law
		-	Judicial system
		-	

Discipline: Politics

Number	Research Field		Screening Sub-panel Number / Keyword
		1	Political theory
1 1		2	Political methodology
		\vdash	History of Western political thought
		Ë	History of Japanese and East Asian political
		4	thought
		5	Political history
		-	Japanese political history
		7	Japanese politics
3701 F	Politics	8	Political process
		-	Electoral studies
		10	New institutionalism
		11	Political economy
		12	Public administration
		13	Local government
		14	Comparative politics
		15	Public policy
		1	Theory of international relations
		2	Diplomatic history/International history
		3	Foreign policy
		4	International security
		5	Non-traditional security/ Human security
		6	International political economy
3702 I	International	7	International regime
3702 r	relations	8	International integration
		9	International cooperation
		10	International communication
		11	Transnational relations
		12	Global issues
		13	International relations of East Asia
		14	International development cooperation

Disc	ipline: Econon	nics
Item Number	Research Field	Screening Sub-panel Number / Keyword
		1 Microeconomics
		2 Macroeconomics
		3 Economic theory
3801	Economic	4 Game theory
3601	theory	5 Behavioral Economics
		6 Experimental Economics
		7 Evolutionary Economics
		8 Economic Institutions and Systems
	Economic	1 Economic doctrine
2002	doctrine/	2 Economic thought
3602	Economic	3 Social thought
	thought	4 Economic Philosophy
	Economic statistics	1 Statistical system
		2 Statistical research
		3 Population statistics
3803		4 Income/Wealth distribution
		5 National accounts
		6 Econometrics
		7 Financial Econometrics
		1 International economics
		2 Industrial organization
		3 Economic development
		4 Economic policy
	Faanamia	5 Urban economics
3804	Economic	6 Transportation economics
	policy	7 Regional economics
		8 Environmental economics
		9 Resource economics
		10 Japanese economy
		11 Economic affairs
		• •

(Discipline: Economics)

Item Number	Research Field	,	Screening Sub-panel Number / Keyword				
		1	Public finance				
		2	Local government finance				
		3	Public economics				
	Public	4	Public policy				
3805	finance/	5	Health economics				
3603	Public	6	Labor economics				
	economy	7	Social security				
		8	Education economics				
		9	Law and economics				
		10	Political economics				
		1	Monetary economics				
		2	Finance				
3806	Money/	3	International finance				
3600	Finance	4	Corporate finance				
		5	Insurance				
		6	Financial engineering				
	Economic	1	Economic history				
3807	Economic history	2	Business history				
		3	Industrial history				

Discipline: Management

Item Number	Research Field		Screening Sub-panel Number / Keyword					
		1	1	Organizational management				
			2	Managerial finance				
			3	Management information				
		1	4	Business administration				
			5	Corporate social responsibility				
3901	Management		6	Management theory				
			7	Corporate strategy				
			8	International management				
		2	9	Management of technology				
			10	Business ventures				
			11	Human resource management				
			1	Marketing				
			2	Consumer behavior				
			3	Advertising				
3902	Commerce		4	Distribution and logistics				
			5	Marketing research				
			6	Commerce				
			7	Insurance				
			1	Financial accounting				
			2	Managerial accounting				
			3	Auditing				
3903	Accounting		4	Bookkeeping				
3,03	Accounting		5	International accounting				
			6	Tax accounting				
			7	Governmental accounting				
			8	Environmental accounting				

Discipline: Sociology

Discipline: Sociology						
Item Number	Research Field	L		Screening Sub-panel Number / Keyword		
			1	Social philosophy/Social thought		
			2	History of sociology		
			3	Sociological Theory / Sociological Methodology		
			4	Social System		
			5	Social research		
		1	6	Mathematical sociology		
		1	7	Social interaction/Social relations		
			8	Social group/Social organization		
			9	Institutions/Structure/Social change		
			10	Knowledge/Science/Technology		
			11	Politics/Power/State		
		Ш	12	Class/Social status group /Social mobility		
			13	Family/Kinship/Population		
4001	Sociology		14	Community/Village/City		
			15	Industry/Labor		
			16	Sociology of welfare		
			17	Culture/Religion/Social consciousness		
			18	Communication/Information/Media		
			19	Gender		
		2	20	Education/School		
			21	Medical sociology /Disability studies		
			22	Social problems/Social movements		
			23	Discrimination/Social exclusion		
			24	Environment/Pollution		
			25	International community/Ethnicity		
			26	Body/Sports		
			27	Self/Identity		
			1	Principles of social welfare/philosophy of		
			1	social welfare		
			2	Social welfare history		
			3	Social security / Social welfare policy		
			4	Welfare state/ Welfare society		
			5	Social work		
			6	Poverty/ Public assistance		
			7	Child welfare		
			8	Women's welfare/ Feminist social work		
	Social		9	Social policy and social work with people with disabilites		
4002	welfare and		10	Social policy and social work with the elderly		
	social work studies		11	Social work with families		
	studies		1.2	Community work/ community		
			12	services/community development		
			13	Social work in mental health /social work in health care/ care work		
			14	Forensic social work/ social work in juvenile delinquency and criminal justice		
			15	Management in social work / Advocacy/evaluation		
				International social work / NGOs in social welfare		
			17	Volunteerism / NPOs in social welfare		
			18	Social work education/ Field education		
		ш		norm education I fold education		

Discipline: Psychology

Item Number	Research Field	-01	Screening Sub-panel Number / Keyword
Number		1	Self-processes
		2	Social cognition/Emotion
		3	Attitude/Belief
		4	
		-	Social interaction/Interpersonal relations
		5	Interpersonal communication
4101	Social	6	Group/Leadership
4101	psychology	7	Collective behavior/Social phenomena
		8	Industry/Organization/Personnel
		9	Culture
		-	Social issues
			Environment/Environmental problems
		-	Media/Electronic network
		13	Consumer behavior
		1	Development
		2	Parent-child relationship
		3	Developmental disorder
		4	Personality
4102	Educational psychology	5	Teaching Method/Learning
4102		6	Educational assessment/evaluation
		7	Educational counseling
		8	Interpersonal relations/ behavior
		9	Self-process
		10	School, Class, Teacher
		1	Psychological disorder
		2	Crime/Delinquency
		3	Psychological assessment
		4	Psychotherapy
		5	Psychological intervention
		6	Nonverbal communication
4103	Clinical	7	Counseling
	psychology	8	Psychological interviewing process
		9	Case study
			Self-help group
			Therapist's theory
			Community support
		1.5	Health psychology/Health development
-		14	Rehabilitation psychology
		2	Psycho-physiology Sensation/Perception/Kansei
		3	Consciousness/Cognition/Attention
		4	Memory
4104	Experimental	5	Affection/Emotion/Motivation
	psychology	6	Thinking/Reasoning/Language
		7	Learning/Behavior analysis
		8	Evolution/Development/Comparative cognition
		9	Principle/History/Methodology
		•	<u> </u>

Discipline: Education

Item Number	Research Field			Screening Sub-panel Number / Keyword
			1	Philosophy of education
			2	Educational thought
			3	History of education
				Curriculum theory
		1	5	Instructional theory
			6	Academic achievement theory
			7	Educational methods
			8	Educational evaluation
4201	Education		9	Teacher education
			10	Administration and finance of education
			11	School management
			12	School education
		2	13	Early childhood education/Child-care
			14	Lifelong learning
			15	Adult and community education
			16	Education at home
			17	Education policy

(Discipline: Education)

Г	(Discipline: Education)						
ļ	Number	Research Field	L		Screening Sub-panel Number / Keyword		
				1	Sociology of education		
				2	Economics of education		
				3	Anthropology of education		
				4	Education policy		
				5	Comparative education		
				6	Human resource development/Development		
		Socialogy of		0	education		
	4202	Sociology of education		7	School system/School culture		
		caucation		8	Teacher/Student culture		
				9	Youth problems		
				10	Academic achievement problem		
				11	Multicultural education		
				12	Gender and education		
				13	Education survey method		
					Educational information system		
ŀ			Г		Education of individual subjects (Japanese,		
					mathematics, science, social studies,		
				1	geography/History、civics、life environmental		
					studies, music, art, home economics,		
			1		technology, English, information)		
		.			Education of vocational/Professional subject		
		Education on school subjects and activities		2	(industry, bussiness, agriculture, fishery,		
	4203			_	nursing, welfare)		
				3	Curriculum composition/development		
			2		Materials development		
					Education excluding subject (global learning)		
				5	moral, special activities)		
				6	Guidance		
				7	Career education		
l				8	Teacher training		
				1	Education philosophy, Thought and History		
				2	Education system, Policy, and Administration		
				3	Psychological clinical study and Experiment study		
				4	Assessment		
				5	Instruction, Support, and Evaluation		
				6	Support system and Special needs education coordinator		
				7	Consultation and Counseling		
				8	Family and advocacy		
		G		_	Cohesive society and School inclusion		
	4204	Special needs			Early detection and Early support		
		education			Regular classroom and Resource room		
					Special school for Children with disabilities		
				13	Higher education and Career education		
				14	Developmental disabilities and Emotional disturbance		
				15	Intellectual disabilities		
				16	Visual impairments, Deaf and Hard of hearing,		
					and Speech and Language disorders		
					Physical disorders and Health impairments		
ı				18 19	Learning difficulties and School maladjustment Gifted and Talented		
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Area: Interdisciplinary science and engineering

Discipline: Nano/Micro science

Disc	ipline: Nano/N	lic	ro	
Number	Research Field	Т	1	Screening Sub-panel Number / Keyword
		ŀ		Nanostructural chemistry
		ŀ	2	Creation of nanostructures
		-		Clusters/Nanoparticles
4301	Nanostructural	-		Fullerenes/Nanotubes/Graphene
	chemistry			Mesoscopic Chemistry
		ŀ		Hierarchical structures/Superstructures
		ŀ	7	Nanosurfaces/Nanointerfaces
		+		Self-assembly
		ŀ		Nanotubes/Graphene
		ŀ		Nanostructure properties
		ŀ		Nanoscale control physics
		ŀ		Nano/Micro physics
		F		Nanoprobes
4302	Nanostructural physics	ŀ	6	Quantum information
	physics	F	7	Quantum effects
		F		Quantum dots
		F		Quantum devices
		F		Electron devices
		ŀ		Spin devices
		+		Nanotribology Creation of nanomaterials
		F	1	
		ŀ	2	Analysis and characterization of nanomaterials Nanosurfaces/Nanointerfaces
		ŀ		
		ŀ		Functional nanomaterials
4303	Nanomaterials chemistry	F		Formation/Control of nanostructures
		ŀ		Molecular components
		ŀ		Nanoparticles Fullerenes/Nanotubes/Graphene
		F		Carbon nanomaterials
				Single-molecule chemistry
		ŀ		Nano-optical devices
		F		Molecular devices
		+	1	Nano crystalline materials/Composites
		F		Nano particles/Wires/Sheets
		ŀ		Nano dots/Layers
		ŀ		Nano defect control
	Nanomaterials	ŀ		Hetero/Homo structures
4304	engineering	ŀ		Nano materials /Fabrication process
		H		Nano shaping/Forming process
		H		Nano carbon applications
		ŀ		Nano and micro structural analysis
			9	/Evaluation/Testing
		1	1	DNA devices
		f	2	Nanosynthesis
		F		Molecular manipulation
		t	4	Biochips
4305	Nanobioscience	f	5	Single-molecule biochemistry and physiology
		t	6	Single-molecule bioinformation science
		t	7	Single-molecule science
		t	8	Single-molecule imaging/Nanometrology
		ľ	9	Genomic engineering
		†	1	MEMS · NEMS
		t	2	Nano/Microfabrication
	NT /	ľ	3	Nano/Micro-optical devices
4306	Nano/ Microsystems	f	4	Nano/Microchemical systems
	Microsystems	f	5	Nano/Microbiosystems
			6	Nano/Micromechanics
			7	Nano/Microsensors

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Magnetic material
		2	Superconductor
		3	Dielectric
		4	Optical properties
	Applied	5	Micro crystal
4401	Applied materials	6	Organic molecule
	materials	7	Liquid crystal
		8	New functional materials
		9	Spintronics
		10	Organic/Molecular electronics
		11	Bioelectronics
		1	Metal
		2	Semiconductor
		3	Amorphous
		4	Crystallite
4402	Crystal	5	Ceramics
	engineering	6	Crystal growth
		7	Epitaxial growth
		8	Crystal characterization
		-	Heterostructure
		$\overline{}$	Electronic/optical functionality
		\vdash	Ferroelectric thin film
		2	Carbon-related thin film
	Thin film/	3	Oxide electronics
	Surface and	4	New functional thin film materials
4403	interfacial	5	Surface
	physical	6	Interface
	properties	7	Vacuum
			Beam application
		9	Scanning probe microscopy
		10	Electron microscopy Optical elements/Instrumentation/Materials
		2	Quantum information processing
		3	Vision
		4	Quantum electronics
		5	Laser
	Optical		Nonlinear optics
		7	Quantum optics
4404	Photon	8	Photonic crystals
	science	9	Opto-electronics
			Micro-and nano-optics
			Optical sensing
			Optical recording
			Optical controlling
			Photo-processing
		1	Plasma
		2	Plasma processing
	DI	3	Plasma application
4405	Plasma electronics	4	Reactive plasma
	electronics	5	Plasma chemistry
		6	Plasma treatment
		7	Plasma diagnostics
			-

Area: Mathematical and physical sciences

(Discipline: Applied physics)

Item Number	Research Field	Screening Sub-panel Number / Keyword				
		1 Me	chanics			
		2 The	ermal engineering			
		3 Sou	inds			
		4 Vit	oration			
	General	5 Ele	ctromagnetism			
4406	applied	6 Phy	vsical measurements and control			
	physics	7 Sta	ndards			
		8 Ser	isors			
		9 End	ergy conversion			
		10 Rad	liation			
		11 Ac	celerators			

Discipline: Quantum beam science

DISCI	Discipline: Quantum beam science								
Item Number	Research Field	Screening Sub-panel Number / Keyword							
		1 Technology of accelerator							
		2 Diagnostics for quantum beams							
		3 Data processing and analysis							
		4 Detectors							
		5 Industrial application							
		6 Medical application							
		7 Compact quantum beam generator							
	Quantum beam science	8 Lasers							
4501		9 X-ray							
4301		10 γ-ray							
		11 Synchrotron radiation							
		12 Neutron							
		13 Muon							
		14 Electron, Positron							
		15 Neutrino							
		16 Ion beam							
		17 Proton beam							
		18 Other quantum beam							

Discipline: Computational science

Item Number	Research Field		Screening Sub-panel Number / Keyword					
	Computational science			Mathematical engineering (mathematical analysis/planning/designing/optimization)				
			2	Computational mechanics				
			3	Numerical simulation				
4601			4	Multi-scale modeling				
			5	Large scale simulation				
			6	Parallel Processing, 3D simulation				
			7	Numerical simulation methods				
			8	Advanced algorithms				

Discipline: Mathematics

Item		П		0 1 0 1 137 1 /77 1
Number	Research Field			Screening Sub-panel Number / Keyword
			1	Number theory
			2	Arithmetic geometry
		1	3	Group theory (including representation theory of groups)
			4	Algebraic combinatorics
4701	Algebra	Г	5	Algebraic geometry
				Ring theory (including Lie algebra theory,
		2	6	representation theory of Lie algebras)
				Other algebra (including algebraic analysis,
			7	computational algebra, applications of algebra
			1	Riemannian geometry (including geometric analysis)
				Symplectic geometry (including contact
		1	2	geometry)
			3	Complex geometry
				Other differential geometry (including
4702	Geometry		4	geometric structures, discrete geometry)
		Г	5	Topology (algebraic topology, general topolog
			6	Differential topology (foliations, singularities,
		2		topological transformation groups)
				Low-dimensional topology (knot theory, 3-
			7	dimensional manifolds, 4-dimensional
		L		manifolds)
		1	1	Functional analysis (including operator
				theory/representation theory)
			2	Operator algebras
			3	Dynamical systems/Integrable systems
4703	Basic	L	4	Algebraic analysis
1705	analysis		5	Real analysis
			6	Complex analysis
		2	7	Probability theory
			8	Other basic analysis (including function spaces/foundations of applied analysis)
		П	1	Functional equations
	Mathematical		2	Applied analysis
4704	analysis			Nonlinear analysis (including variational
	unurysis		3	analysis/nonlinear phenomena)
		Г	1	Mathematical logic and foundations,
			1	Information mathematics
			2	Discrete mathematics
	E4.			Numerical analysis/ Mathematical models
	Foundations		3	(including prediction Theory, optimization,
1705	of mathematics/		L	data analysis)
4705	Applied			Statistical mathematics (including game theory
	mathematics			design of experiments, convex programming
	mathematics		4	problems, decision theory, estimation theory,
				testing theory,estimation of stochastic
				processes)
		ı	5	Other applied mathematics

Discipline: Astronomy

Item Number	Research Field	Screening Sub-panel Number / Keyword						
		Optical/Infrared astronomy						
	Astronomy	2 Radio astronomy						
4801		3 Solar physics						
4001		4 Astrometry						
		5 Theoretical astronomy						
		6 X-ray/γ-ray astronomy						

	ipline: Physics	S				1	ınd	l p	lanetary science
Item Number	Research Field	L		Screening Sub-panel Number / Keyword	Item Number	Research Field	Ļ		Screening Sub-panel Number / Keyword
			1	Particle physics (theory)				1	Earthquake phenomena
			2	1 January 37			╽╽	2	Volcanic phenomena
		1	3	Cosmic ray physics (theory)				3	Prediction of earthquakes and volcanic eruptions
			4	Astrophysics (theory)				4	Earthquake and volcanic disasters
	Particle/		5	Cosmology/Gravitation (theory)				5	Crustal movement/Sea floor crustal movement
4001	Nuclear/		6	Particle physics (experiment)		0.11.1	ΙГ	6	Geomagnetism
4901	Cosmic ray/		7	Nuclear physics (experiment)	5001	Solid earth		7	Gravity
	Astro physics		8	Cosmic ray physics (experiment)	3001	and planetary		8	Tectonics
		2	9	Astrophysics (experiment)		physics		9	Internal structure
			10	Cosmology/Gravitation (experiment)			╽┢	10	Earth interior dynamics/Mineral physics
			11				I ⊢	11	Solid planets/Satellite/Asteroid
			12	1			╟	12	Planet formation and evolution
		t	1	Semiconductors			l ⊢		Exploration of solid planets
			2	Mesoscopic system/Localization			I⊢	14	
			3	Optical properties			Н	1	Meteorology
			4	Surface/Interface			ΙH	2	Climatology
	Condensed		\vdash				I ⊢		
4902	matter		5	Crystal growth		Meteorology/	I ⊢	3	Planetary atmospheres
	physics I		6	Dielectrics		Physical	I ⊢	4	Air-sea interaction
			7	Lattice defects	5002	oceanography/	I ⊢	5	Geophysical fluid dynamics
			8	X-ray/Particle beam		Hydrology	I ⊢	6	Physical oceanography
			9	Phonon properties			I ⊢	7	Global environmental system
			10				I ⊨	8	Land-area water cycle/Material circulation
		1	1	Magnetism			Ш	9	Water budget
		2	2					1	Terrestrial and planetary magnetospheres
			3	Strongly-correlated system				2	Geomagnetic variation
	Condensed		4	High temperature superconductivity				3	Terrestrial and planetary ionospheres
4903	matter		5	Metal		Space and		4	Terrestrial and planetary upper atmospheres
	physics II			Ultralow temperature/Condensed quantum	TII	upper		5	Aurora/Magnetic storm
	r		6	system	5003	atmospheric		6	Solar wind/Interplanetary space
			7	Superconductivity/Density wave system		physics	╽┟	7	Solar-terrestrial system/Space weather
			8	Molecular solid/Organic conductor			╽┝	8	Space plasma/Plasma wave
			1	Statistical physics			╽┝		Planetary plasma/Planetary atmosphere
			2	Fundamental condensed matter theory				9	exploration
	Mathematical		3	Mathematical physics			H	1	Regional geology
	physics/		4				ΙH		Marine geology
	Fundamental		5				ΙH	3	Accretionary prism/Orogenic belt
4904	condensed		6	Applied mathematics			Ιŀ	4	Structural geology/Tectonics
	matter		7	11			l ⊦		
	physics		-/	Dynamics			╽┝	5	Volcanoes/Active faults/Geologic hazards
	physics		8	Fluid physics	5004	Geology	I ⊢	6	Environmental geology/Hydraulic geology
			9	Disordered system			I ⊢	7	Quaternary study
		Ļ	10	1 1 7			ΙH	8	Applied geology/Urban geology
	Atomic/		1	Atom/Molecule			l L	9	Sedimentology/Energy resource geology
	Molecular/		2	Quantum electronics			ΙH		
4905	Quantum	l	3	Quantum information				11	Geoinformatics
	electronics		4	Radiation			Ш	12	History of geoscience
		L	5	Beam physics			l ⊢	1	Stratigraphic succession
		Ī	1	Physics of living phenomena				2	Fossil
			2	Physics of biomolecules				3	Phylogeny/Evolution/Diversity
			3	Mathematical biology	5005	Stratigraphy/		4	Function/Morphology
	Biological		4		5005	Paleontology		5	Paleoecology
	physics/			Optical response • Photosynthesis • Chemical				6	Paleobiogeography
400	Chemical		5	reaction				7	Paleoenvironment
4906	physics/Soft		6	Polymer • Liquid crystal • Gel	$\neg $		I⊢	8	Paleo-ocean
	matter	l	7	Emulsion • Membrane • Colloid	$\neg \vdash \vdash$		Н	1	Earth and planetary materials
	physics		8	Interface • Wetting • Adhesion • Fracture	$\dashv \mid$		ΙH	2	Earth and planetary evolution
	-		9	Biophysics(general)			I ⊢	3	Crust/Mantle/Core
		l		Chemical physics(general)			I ⊢	4	Magma/Igneous rocks
			-	Soft matter physics(general)		Petrology/	I⊢	5	Metamorphic rocks
	l	_	11	Bott matter physics(general)	5006	Mineralogy/	I ⊢	6	
					3000	Economic	I ⊢	7	Mineral physics
						geology	I⊢		Natural and artificial crystals
							-	8	Elemental fractionation Ore deposition

amics/Mineral physics llite/Asteroid and evolution id planets ods ieres dynamics aphy ntal system ycle/Material circulation netary magnetospheres ation netary ionospheres netary upper atmospheres storm anetary space stem/Space weather sma wave Planetary atmosphere n/Orogenic belt /Tectonics faults/Geologic hazards ology/Hydraulic geology Jrban geology nergy resource geology etary geology nce ession ion/Diversity ogy y materials y evolution ocks cial crystals ation 9 Ore deposition 10 Mineral resources 11 Biologic and environmental minerals

Area: Chemistry

(Discipline: Earth and planetary science)

Item Number	Research Field	Screening Sub-panel Number / Keyword				
			1 Earth and extraterrestrial materials			
			2 Material recycling			
			3 Distribution of elements and molecules			
	Geochemistry/ Cosmochemistry		4 Isotope/Radiometric dating			
			5 Cosmochemistry			
5007			6 Chemistry of the crust and mantle			
			7 Organic geochemistry			
			8 Biosphere geochemistry			
		1	9 Atmospheric and hydrospheric geochemistry			
			10 Environmental/geo-environmental chemistry			
			11 Analytical methods			

Discipline: Plasma science

Item Number	Research Field	Screening Sub-panel Number / Keyword				
		1	Basic plasma physics and electric discharges			
		2	Space and astrophysical plasmas			
		3	Burning plasma			
		4	High energy density physics			
	Plasma science	5	Complex plasmas			
		6	Reactive plasmas			
5101		7	Plasma chemistry			
		8	Plasma applications			
		9	Plasma diagnostics			
		10	Plasma control /Laser			
		11	Plasma acceleration			
		12	Plasma application to beam physics			
		13	Plasma application to mm and THz waves			

Discipline: Basic chemistry

Item Number	Research Field	Screening Sub-panel Number / Keyword				
		1	Structural chemistry			
		2	Electronic state			
		3	Molecular dynamics			
		4	Chemical reaction			
	Physical	5	Reaction dynamics			
5201	chemistry	6	Molecular spectroscopy			
	Chemisuy	7	Surface/Interface			
		8	Solution			
		9	Cluster			
		10	Theoretical chemistry			
		11	Biophysical chemistry			
		1	Structural organic chemistry			
	Organic chemistry	2	Organic reaction chemistry			
		3	Synthetic organic chemistry			
5202		4	Organoelement chemistry			
		5	Organic photochemistry			
		6	Physical organic chemistry			
		7	Theoretical organic chemistry			
		1	Metal complex chemistry			
		2	Organometallic chemistry			
		3	Inorganic solid-state chemistry			
		4	Bioinorganic chemistry			
		5	Nuclear/Radiochemistry			
	Inorganic	6	Supramolecular complexes			
5203	chemistry	7	Multinuclear/Cluster complexes			
	Chemistry	8	Coordination polymers			
		9	Solution chemistry			
		10	Nanomaterials			
		11	Crystal structure			
		_	Catalysts			
		13	Element resources			

Discipline: Applied chemistry

	pline: Applied chemistry					
Item Number	Research Field	Screening Sub-panel Number / Keyword				
		1 Optical properties				
		2 Electronic properties				
		3 Electron spin				
		4 Integrated properties				
	Functional	5 Molecular devices				
5201	solid state	6 Supramolecules				
3301	chemistry	7 Liquid crystals				
	chemistry	8 Crystals				
		9 Thin films				
		10 Surface/Interface				
		11 Colloids/Quantum dots				
		12 Electrochemistry				
		Selective synthesis				
		2 Complex/Organometallic catalysis				
		3 Fine chemicals				
		4 Asymmetric synthesis				
		5 Catalyst design/reaction				
	Synthetic	6 Environmentally benign synthesis				
5302	chemistry	7 Reaction field				
	Chemistry	8 Automatic synthesis				
		9 Biomimetic synthesis				
		10 Combinatorial synthesis				
		11 Organocatalyst				
		12 Natural product synthesis				
		13 Synthetic resources				

(Discipline: Applied chemistry)

Item	scipline: Applied chemistry)					
Number	Research Field	Τ.	Screening Sub-panel Number / Keyword			
		1	Polymer synthesis			
			Polymer reaction/degradation			
		3	Asymmetric polymerization			
		4	Self-assembled polymers			
		_	Polymer structure			
5303	Polymer	6	Polymer properties			
	chemistry	7	Functional polymers			
		8	Bio-related polymers			
		9	Polymer complex			
		10	Polymer thin film/surface			
		11	Polymerization catalyst			
		12	Polymer resources			
		1	Sampling/Pretreatment			
		2	Solvent/solid-phase extraction			
		3	Instrumental analysis			
		4	Spectrometric analysis			
		5	Laser spectroscopy			
		6	Mass spectrometry			
		7	X-ray/electron spectroscopy			
		8	Surface/particulate analysis			
		9	Electrochemical analysis			
5304	Analytical		Chemical/bio sensor			
	chemistry	11	Separation analysis			
			Chromatography			
		-	Electrophoresis			
			Flow analysis (FIA)			
			Microchannel analysis			
			Analytical reagent			
			Environmental analysis			
		-	Organic/polymer analysis			
			Bioanalysis			
		1	Nucleic acid chemistry			
			Proteins and enzymes			
		3	Sugar chemistry			
			Natural products chemistry			
			Bio-inorganic chemistry			
	Bio-related		Bio-related chemistry			
5305	chemistry	7	Molecular recognition			
	Chemistry	<u> </u>				
			Bio-functional chemistry			
			Biotechnology			
			Biocatalysts			
			Biofunctional materials			
			Bio-structural chemistry			
			Environmental analysis			
			Sensor/monitoring			
		-	Pollutant evaluation			
		-	Pollution indicator			
			Environment assessment			
		6	Environmental information chemistry			
		7	Pollutant			
	Green/	8	Decontamination material			
5306	Environmental		Environmental road-reducing substance			
	chemistry		Biodegradable substance			
		11	Environmental restoration material			
		12	Green chemistry			
		13	Sustainable chemistry			
			Recycle			
			Element recovery			
		-	Safety chemistry			
			Resource analysis			

(Discipline: Applied chemistry)

	T TT		J.	
Item Number	Research Field	Screening Sub-panel Number / Keyword		
		1	Energy conversion	
	Energy- 5307 related	2	Low-carbon Chemistry	
		3	High-functional catalysts	
5307		4	Photocatalysts	
	chemistry	5	Molecular devices and materials	
		6	Energy resources	
		7	Energy conservation chemistry	

Item Number	Research Field		Screening Sub-panel Number / Keyword
		1	Liquid crystals
		2	Crystals
	Organic and	3	Organic semiconductor materials
5401	hybrid	4	Organic optical materials
	materials	5	Organic/inorganic hybrid materials
		6	Molecular device materials
		7	Other functional materials
		1	Properties of polymer materials
		2	Synthesis of polymer materials
		3	Textiles
	Dolyman/	4	Rubbers
	Polymer/ Textile	5	Gel
	materials	6	Functional polymer materials
	materiais	7	Biopolymers
		8	Polymer alloy
		9	Polymer composites
		10	Polymer/Textile processing
		1	Crystals
		2	Glass
		3	Ceramics
		4	Metals
	Inorganic	5	Layered/Intercalation compounds
	industrial	6	Ion exchangers
3403	materials	7	Ionic conductors
	materiais	8	Photocatalysts
		9	High-functional catalysts
		10	Electrochemical materials
			Nanoparticle/Quantum dots
		12	Porous materials
		1	Semiconductor devices
	Device	2	Electrical, magnetical and optical devices
5404	related	3	Biofunctional devices
	chemistry	4	Batteries
		5	Molecular sensors

Area: Engineering

Discipline: Mechanical engineering

	Disci	Discipline: Mechanical engineering				
Materials/ Materials/ Materials/ Materials/ Mechanics of materials Production	Item Number	Research Field	Ĺ	_	Screening Sub-panel Number / Keyword	
Materials/ Materials/ Mechanics of materials Production Production		[·	H	1		
Materials/ Mechanics of materials Mechanics of materials Mechanics of materials Production Production engineering/ Processing studies Design engineering/ functional elements/ Tribology Pribology Final Production engineering/ Processing studies Machine functional elements/ Tribology Final Production engineering/ Processing studies Machine functional elements/ Tribology Final Production management Achine tools Forming process Special processing Ultraprecision machining Nano/Micro machining Precise positioning/Measurements Achine tools Forming process Special processing Ultraprecision machining Precise positioning/Measurements Achine tools Forming process Special processing Ultraprecision machining Precise positioning/Measurements Achine tools Forming process Special processing Ultraprecision machining Precise positioning/Measurements Achine tools Forming process Special processing Ultraprecision machining Precise positioning/Measurements Achine tools Forming process Special processing Ultraprecision machining Precise positioning/Measurements Achine tools Forming process Special processing Ultraprecision machining Precise positioning/Measurements Achine tools Forming process Special processing Ultraprecision machining Precise positioning/Measurements Apprecise positioning/Measurements I pesign engineering Shape modeling Achine tools Achine tools Forming process Special processing Ultraprecision machining Precise positioning/Measurements Apprecise positioning/Measurements I pesign engineering Shape modeling Achine tools Achine tools Machine tools Achine tools Machine tools Achine tools Machine tools Achine tools Ac				1	properties/Evaluation	
Materials Materials Materials Faiture Environments Env	l			2	Continuum mechanics	
Materials	l			3	Structural mechanics	
Mechanics of materials	l	Matarials/		4	Damage mechanics	
materials Fatigue	5501			5	Fracture	
Fluid engineering Fluid enginering Fluid enginering Fluid enginering Fluid enginering	3301			6	Fatigue	
Production engineering/Processing studies Production management	l	materials				
10 Nano/Micro material mechanics						
Fluid engineering / Tribology						
Production engineering				10	Nano/Micro material mechanics	
Production engineering/ Processing studies Production engineering/ Processing studies Process design such colors some studies Processing sprocess such colors special process s			Ц	11	Bio material mechanics	
Production engineering/ Processing studies Processing special process Special processing Ultraprecision machining Nano/Micro machining Precise positioning/Measurements Design engineering/ Machine functional elements/ Pribology Processing special processing Design engineering/ Machine special processing Processing special processing Design engineering Shape modeling CAD-CAM-CAE Synectics Special processing Processing special processing Design engineering Nano/Micro design Process design Design engineering Nano/Micro machining process Special processing Processing special processing Processing special processing Processing special processing Processing special processing Nano/Micro anchining Processing special process Processing special process Special processing special processing Processing special processing Processing special process Special processing special process Procesoing special		<u> </u>	Ĩ,			
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12 Bio thermal engineering	'					
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(Discipline: Mechanical engineering)

Item Number	Research Field	Screening Sub-panel Number / Keyword			
		1	Dynamics		
		2	Dynamic design		
		3	Vibration mechanics		
		4	Vibration analysis/tests		
		5	Control instrument		
5506	Dynamics/	6	Motion control		
3300	Control	7	Vibration control		
		8	Mechanical measurements		
		9	Aseismic/Seismic isolation design		
		10	·		
		11	Acoustic information/Acoustical control		
		12	Acoustic energy		
		1	Robotics		
		2	Mechatronics		
		3	Nano/Micro mechatronics		
	Intelligent	4	Biomechanics		
5507	mechanics/	5	Softmechanics		
3307	Mechanical	6	Information equipment/Intelligent (smart)		
	systems	Ľ	machine systems		
		7	Precision mechanics and systems		
		8	Human-machine systems		
		9	Information systems		

Item Number	Research Field		Screening Sub-panel Number / Keyword
	Power	1	Electrical energy engineering (generation/conversion/storage, and energy
	engineering/		conservation)
	Power		Power system engineering
5601	conversion/		Electric machinery
	Electric	4	Power electronics
	machinery	5	Effective utilization of electric energy
	macmilery	6	Electric/Electromagnetic compatibility
		7	Illumination/Lighting
			Electrical and electronic materials(semiconducto
	Electronic	1	dielectric,magnetic, ferro-
5602	materials/		dielectric,organic,insulator, superconductor,etc.)
3002	Electric	2	Thin film/Quantum structure
	materials	3	Thick film
		4	Fabrication/Characterization method
		1	Electron device/Integrated circuits
			Circuit design/Computer aided circuit design
		2	(CAD)
		3	Optical devices and circuits
	F1 .	4	Quantum devices/Spintronic devices
	Electron	5	Microwave/Millimeter wave/Terahertz wave
5603	device/	6	Wave technology and applications
	Electronic	7	Bio devices
	equipment	8	Information storage/record
		9	Display
			Sensing devices
			Micro fabrication process technology
			Interconnect, packaging and system integratio
		1	Electronic circuits and systems
		2	Nonlinear theory/circuits
		3	Information theory
		4	Signal processing
			Communication systems (wireless, wired,
		5	satellite, optical and mobile)
	Communication/	6	Modulation/Demodulation
5604	Network	7	
	engineering	8	Coding/Decoding Protocol
		-	
		9	Antennas
			Routing/Switching
		_	Networks/Local area networks (LAN)
			Multimedia
		13	Cryptography/Security

(Discipline: Electrical and electronic engineering)

Item	Research Field	Screening Sub-panel Number / Keyword		
Number		1	Measurement technology	
		2	Measuring/Analyzing instruments	
5605	Measurement	3	Measurement systems	
	engineering	4	Signal processing	
		5	Sensing information processing	
		1	Control theory	
		2	System theory	
		3	Knowledge-based control	
		4	Control technology	
	Control	5	Control systems	
5606	engineering/ System	6	Complex systems	
3000		7	System information (knowledge) processing	
	engineering	8	Social systems engineering	
		9	Management systems engineering	
		10	Environmental systems engineering	
			Production systems engineering	
	i	12	Biosystems engineering	

Discipline: Civil engineering

D1SC:	Expline: Civil engineering				
Number	Research Field			Screening Sub-panel Number / Keyword	
			1	Concrete	
		ŀ	2	Steel	
	G: 11	ļ	3	Polymeric materials	
	Civil	ļ	4	Composite material/New materials	
	engineering	L	5	Timber	
5701	materials/	ļ	6	Construction	
0,01	Construction/	L	7	Pavement/Bituminous materials	
	Construction	L	8	Maintenance/Management	
	management	L	9	Construction business plan/Construction design	
			10	Construction management	
				Underground space	
			12	Civil engineering informatics	
			1	Applied mechanics	
	Structural		2	Structural engineering	
		Ī	3	Steel structure	
	engineering/	Ī	4	Concrete structure	
5500	Earthquake	Ī	5	Hybrid structure	
5702	engineering/	Ī	6	Wind engineering	
	Maintenance	Ī	7	Earthquake engineering	
	management	Ī	8	Earthquake resistant structure	
	engineering	ľ	9	Earthquake disaster prevention	
		ľ	10	Maintenance engineering	
	Geotechnical engineering	1	1	Soil mechanics	
		ľ	2	Foundation engineering	
		ŀ	3	Rock engineering	
		ŀ		Engineering geology	
5703		ŀ	5	Ground behavior	
		ŀ	6	Ground and structure	
		ŀ	7	Geotechnical disaster prevention	
		ŀ	8	Geo-environmental engineering	
		ŀ	9	Tunnel engineering	
		1	1	Hydraulics	
		ŀ		Environmental hydraulics	
		ŀ	3	Hydrology	
	Hydraulic	ŀ	4	River engineering	
5704	engineering	ŀ	5	Water resources engineering	
		}	6	Coastal engineering	
		}	7	Port engineering	
		ŀ	8	Ocean engineering	
		\forall	1	Infrastructure planning	
		ŀ	2	Regional/Urban planning	
		ŀ	3	Nationwide spatial planning	
	Civil	ŀ	4	Disaster prevention planning/Environmental planning	
	engineering	-	5	Transportation planning	
5705	project/	ŀ	6	Traffic engineering	
	Traffic engineering	-	7	Railway engineering	
		-	8	Surveying/Remote sensing	
				Landscape architecture/Design	
				Infrastructure history	
			10	mmasu ucture mistory	

(Discipline: Civil engineering)

(8			
Item Number	Research Field	Screening Sub-panel Number / Keyword			
		Environmental pla	nning and management		
		Environmental sys	stems		
	G: :1 1	Environmental cor	nservation		
	Civil and environmental	Water and wastew	ater systems		
3700	engineering	Domestic and indu	ıstrial wastes		
	engineering	Soil and water env	vironments		
		Atmospheric circu	lation/Noise and vibration		
		Ecological engine	ering		

Discipline: Architecture and building engineering

Sulding Structural analysis Structural design	Item Number	Research Field		Screening Sub-panel Number / Keyword
Building 5801 Structures	Number		1	
Building structures/ Materials Building structures/ Materials Building structure 7 Composite structure 8 Foundation Structural material 10 Building construction method 11 Maintenance technology 12 Earthquake disaster prevention 13 Structure control 14 Earthquake resistant design Wind resistant design Earthquake resistant design Wind resistant design Sound/Vibration environment 1 Earthquake resistant design Sound/Vibration environment 2 Light environment 3 Heat environment 5 Environmental equipment planning 6 Environmental psychology/physiology 7 Building equipment Fire engineering 9 Global/Urban environment 10 Environment designing 1 Planning theory 2 Design theory 3 Housing theory 4 Building types/District facilities 1 Urban/Regional planning Administration/System 7 Building/Urban economy 8 Production management 9 Disaster prevention planning 1 Landscape/Environmental planning 1 Architectural history 2 Urban history 2 Urban history 3 Architectural history 2 Urban history 5 Style 6 Landscape/Environment			2	
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5802 environment/ Equipment 5			4	Air environment
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Town planning/ Architectural planning Architectural Architectural history/Design Town planning/ Architectural planning 3 Housing theory 4 Building types/District facilities 5 Urban/Regional planning 6 Administration/System 7 Building/Urban economy 8 Production management 9 Disaster prevention planning 10 Landscape/Environmental planning 1 Architectural history 2 Urban history 3 Architectural theory 4 Design 5 Style 6 Landscape/Environment				
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planning/ Architectural planning 5 Urban/Regional planning 6 Administration/System 7 Building/Urban economy 8 Production management 9 Disaster prevention planning 10 Landscape/Environmental planning 1 Architectural history 2 Urban history 3 Architectural theory 4 Design 5 Style 6 Landscape/Environment		Town		
Architectural planning Architectural planning Architectural planning Architectural history/Design Architectural history/Design Architectural history/Design Architectural history/Design Architectural history/Design Architectural history Architectural history Style Landscape/Environment Architectural theory Architectural theory Architectural theory Landscape/Environment		planning/	5	
planning 7 Building/Urban economy 8 Production management 9 Disaster prevention planning 10 Landscape/Environmental planning 1 Architectural history 2 Urban history 3 Architectural theory 4 Design 5 Style 6 Landscape/Environment	5803		6	
8 Production management 9 Disaster prevention planning 10 Landscape/Environmental planning 1 Architectural history 2 Urban history 3 Architectural theory 4 Design 5 Style 6 Landscape/Environment		planning	7	
5804 Architectural history/Design Architectural history/Design Architectural theory 4 Design 5 Style 6 Landscape/Environmental planning 1 Architectural history 2 Urban history 4 Design 5 Style 6 Landscape/Environment			8	
5804 Architectural history/Design Architectural history/Design Architectural theory 4 Design 5 Style 6 Landscape/Environmental planning 1 Architectural history 2 Urban history 4 Design 5 Style 6 Landscape/Environment				Ü
5804 Architectural history/Design Architectural history/Design 1 Architectural history 2 Urban history 3 Architectural theory 4 Design 5 Style 6 Landscape/Environment				
Architectural history/Design Architectural history/Design 2 Urban history 3 Architectural theory 4 Design 5 Style 6 Landscape/Environment			\neg	
Architectural history/Design Architectural history/Design 3 Architectural theory 4 Design 5 Style 6 Landscape/Environment			2	
5804 history/Design Architectural history/Design 5 Style 6 Landscape/Environment			3	
5 Style 6 Landscape/Environment	5804			
6 Landscape/Environment				Č
/ FTESELVALION/KENOVALION			7	Preservation/Renovation

Disci	ipline: Materia	i engineering			
Item Number	Research Field	Screening Sub-panel Number / Keyword			
		1	Electronic/Magnetic properties		
		2	Mechanical/Thermal/Optical properties		
		3	Properties of surfaces/Interfaces/Thin films		
	Physical properties of metals/Metal- base materials	4	Magnetic/Electronic/Information Materials		
5901		5	Superconductors/Semiconductors		
3901		6	Amorphous/Metallic glasses/Quasicrystals		
		7	First principles calculations/Material design		
		'	simulations		
		8	Atomic/Electronic structural characterization		
		9	Diffusion/Phase transformation/Phase diagrams		

(Discipline: Material engineering)

Item	scipline: Material engineering)						
Number	Research Field	1	Screening Sub-panel Number / Keyword				
		1	Crystal structure/Microstructure control				
		2	Mechanical/Electronic/Electromagnetic/Optical				
			/Thermeal properties				
	Inorganic	3	Surface/Interface control				
5902	materials/	4	Functional ceramics				
0,02	1 Hysrcui	5	Functional glasses				
	properties	6	Structural ceramics				
		7	Carbon materials				
		8	Dielectric materials				
		9	Inorganic material synthesis and process				
		1	Functional composites				
		2	Structural composites				
		3	Hybrid/Smart/Biomaterials				
	Composite	4	Surface/Interface/Grain boundary control				
	materials/	5	Plasma/Laser/Surface treatment and process				
5903	Surface and		Durability/Environmental				
	interface	6	degradation/Monitoring/Evaluation				
	engineering	7	Bonding/Adhesion/Welding				
	engmeering	8	Recyclable bonding/Composites				
		9	Design/Fabrication process/Forming				
			Complex polymer				
		1	Strength/Fracture toughness				
		2	Reliability				
	Structural/ Functional	3	Energy materials				
		4	Fuel cell/Electric cell materials				
5904		5	Sensor materials/Optical functional materials				
3701	materials	6	Biomaterials/Medical materials/Welfare materials				
	materials	7	Multifunctional materials				
		8	Infrastructure materials				
		9	Functional polymeric materials				
		1	Plastic forming/Shaping				
		2	Mechanical/Thermal treatments				
	Material	3	Precision/Non-conventional process				
	processing/	4	Crystal structure/Microstructure control				
5905	Microstructural	5	Electrochemical process				
	control	6	Powder process/Powder metallurgy				
	engineering	7	Thin film/Plating/Wiring process				
		8	Electrocatalysis				
		1	Reaction/Separation/Refining				
		2	Melting/Solidification				
		-	Č				
		3	Casting				
	Metal		Crystal growth/Fabrication				
	making/	5	Various manufacturing process				
5906	Resource	6	Ecological materials/Energy saving process				
	production	7	Process for scarce resource				
	engineering		substitution/Ubiquitous materials				
	engineering	8	Environmental purification/Low environmental				
		Ľ	burden/Sustainable materials				
		9	Recycling/Recycling process/Reuse/Transduction				
		10	Resource separation/Safeguard/Securing				

Discipline: Process/Chemical engineering

DISC	ipilile. I rocess	/Cnemical engineering					
Item Number	Research Field	Screening Sub-panel Number / Keyword					
		1 Equilibrium/Transport properties					
		2 Fluid/Heat transfer/Mass transfer operation					
		3 Distillation					
	Properties in	4 Extraction					
	chemical	5 Absorption					
	engineering	6 Adsorption					
	process/	7 Ion exchange					
6001	Transfer	8 Membrane separation					
	operation/	9 Hetero-phase separation					
		10 Ultra high separation					
	Unit	11 Stirring/Blending operation					
	operation	12 Granular and powdered materials operation					
		13 Crystallization procedure					
		14 Thin film/Microparticle forming operation					
		15 Polymer processing					

(DIS	riscipline: Process/Chemical engineering)						
Item Number	Research Field	Screening Sub-panel Number / Keyword					
		1	Gas/Liquid/Solid/Supercritical fluid operation				
		2	Novel reaction field				
		3	Reaction rate				
		4	Reaction mechanism				
	Reaction	5	Reaction apparatus				
	/	6	Materials synthesis process				
6002	engineering/ Process	7	Polymerization process				
		8	Measurement				
	system	9	Sensors				
		10	Process control				
		11	Processing system design				
		12	Process information processing				
		13	Process operation/Facilities management				
		1	Catalysis reaction				
		2	Catalyst preparation chemistry				
	Catalyst/	3	Catalyst performance analysis				
	Resource chemical	4	Energy conversion process				
6003		5	Fossil fuel effective utilization technology				
		6	Resources/Energy effective utilization				
	process	0	technology				
		7	Resources/Energy saving technology				
		8	Combustion technology				
		1	Biocatalyst engineering				
		2	Biofunction engineering				
		3	Food engineering				
		4	Medicochemical engineering				
		5	Bioproduction process				
	Biofunction/	6	Environmental Bioprocess				
6004		7	Micro/Nano Bioprocess				
	Bioprocess	8	Applied bioelectrochemistry				
		9	Bioreactor				
		10	Biosensor				
		11	Bioseparation				
		12	Biorefinery				
		13	Bioinformatics				

Disci	pline:Integrated engineering									
Item Number	Research Field	Screening Sub-panel Number / Keyword								
		1	Aerodynamics							
		2	Structure/Material							
		3	Vibration/Strength							
		4	Guidance/Navigation/Control							
	Aerospace	5	Propulsion/Engine							
6101	engineering	6	Flight dynamics							
	engineering	7	Aerospace system							
		8	Design/Instrumentation							
		9	Special aircraft							
		10	Space utilization/Exploration							
		11	Aerospace environment							
		1	Propulsion/Vessel dynamics							
		2	Material/Structural mechanics							
		3	Ship and marine hydrodynamics							
		4	Planning/Design/Production system							
		5	Shipbuilding/Equipment							
	Naval and	6	Maritime transportation system							
6102	maritime	7	Marine engine/Fuel							
	engineering	8	Marine environment							
		9	Marine resources/Energy							
		10	Ocean exploration/Equipment							
		11	Undersea and subsea engineering							
		12	Polar engineering							
		13	Maritime systems							

(Discipline:Integrated engineering)

(D _{1S}	iscipline:Integrated engineering)					
Item Number	Research Field	Screening Sub-panel Number / Keyword				
		1	Applied geology			
		2	Geo-engineering			
		3				
		4	Monitoring in Geo-engineering			
		5	Earth systems			
		6	I			
	Earth system	7	Natural resource development			
6103	and resources	8	Resource evaluation			
	engineering	9	Trimeral processing			
		10	Underground disposal and storage			
		11	Contaminated soil remediation			
		12	Development and utilization of deep underground			
		13	Material resources			
			Renewable source/Energy			
		15	Economic resources			
		1	Core plasma			
		2	Peripheral/divertor plasma			
		3	Plasma measurement			
		4				
		5				
6104	Nuclear	6	Plasma facing component/Plasma heating device			
0101	fusion studies	7	Fuel/Blanket			
		8	Low activation material			
		9	Zieeti omagnet			
			Inertial confinement fusion			
		11				
		12				
		1	Radiation engineering/Beam science			
		2	Reactor physics/Nuclear data			
		3	Tracted incasarcinents, reading physics			
		4				
		5	Structure			
	Nuclear	6				
6105	engineering	7	Nuclear material/Nuclear fuel			
	engmeering	8				
		9	1 del cycle			
		10				
		11	1 Id valided Telletors			
			Health physics/Environmental safety			
		13	85			
		1	Energy generation/conversion			
	_	2				
6106	Energy	3	Energy saving Entretent ase of energy			
	engineering	4				
		5				
		6	Natural energy use			

Area: Biological Sciences

Item Number	Research Field			Screening Sub-panel Number / Keyword	1	Item Number	Research Field			Screening Sub-panel Number / Keyword
			1	Molecular and cellular neuroscience	1				1	Genome instability
	Neurophysiology	⊢	2	Developmental and regenerative neuroscience	1				2	Epigenetics
			3	Neuroendocrinology	1				3	Cancer genome analysis
			4	Clinical neuroscience	1				4	Carcinogenesis
6201	/ General		5	Neuroinformatics	1				5	Inflammation and cancer
	neuroscience	l F	6	Behavioral neuroscience	1				6	
			7	Computational neuroscience	1				7	Genetically-modified animals
			8	(Nervous) System physiology	1				8	Oncogene
			-	Somatic, visceral or special sensation	1				9	Tumor suppressor gene
		ΑГ	_	uroanatomy]	1					Signal transduction
		Γ	$\overline{}$	Neural network	1				_	DNA replication
		╟	\rightarrow	Neurohistology	1				-	Cell cycle
		lŀ	_	Molecular neurobiology	1			Α		Cancer and heredity
		ΙH	4	Neural fine structure	1				-	Apoptosis
		l H	5		┨		Tumor		15	
				Neurohistochemistry and neurocytochemistry	ł	6401	Tumor			Cell polarity
		-	6	Neural development and its abnormality	ł		biology		16	Cell adhesion and movement
		l ⊦	7	Neural regeneration, remodeling and plasticity	1				17	Invasion and metastasis
			-	Experimental morphology of the nervous system	ł				18	Characteristics of cancer cells
	Nerve anatomy/		9	Anatomical study of neuroimaging	1				19	
6202	Neuropathology	т-	_	Neurocytology	4					Angiogenesis
		_	_	uropathology]	4				21	Lymphangiogenesis
		I –	_	Cellular neuropathology	1				22	Stem cells
			_	Molecular neuropathology	1				23	Cellular senescence
			13	Neurodegenerative diseases	1			Н	24	Cellular immortalization
			14	Developmental or metabolic disorders					25	Epidemiologic study
			15	Demented disorders					26	Biobank
			16	Cerebrovascular disorders				B	27	Interaction of gene and environment
			17	Brain tumors			Ь	28	Prevention and intervention study	
			18	Spinal, peripheral nervous system or muscular					29	Chemoprophylaxis
			10	disorders					30	Interface of cancer research and society
			1	Molecular and cellular neurobiology					1	Genome analysis
			2	Development, differentiation, and aging					2	Proteomics analysis
			3	Neurotransmitters and receptors					3	Expression analysis
			4	Intracellular signal transduction	1				4	Individuality diagnosis of cancer
			5	Glial cells	1				5	Order-made medical treatment
	Neurochemistry/			Pathophysiology and therapy of	1		Tumor		6	Drug efficacy and calculation
6203	Neuropharmacology		6	neuropsychiatric diseases		6402	diagnostics		7	Biomarkers
			$\overline{}$	Stem cell biology, regeneration, and repair	1				8	Tumor markers
			$\overline{}$	Neural plasticity	1				9	Molecule imaging
			-	Neuropharmacology	1				10	Epigenome
			-	Drug development	1					miRNA
		ı ⊢	-	Genomic neuroscience	1				_	Functional RNA
	ļ	ш		Genomic neurosetence	_			Ħ	1	Antitumor substance research and chemical biology
Disc	ipline:Labora	tor	v	nimal science					-	Chemotherapy
Item	Research Field	101	y a	Screening Sub-panel Number / Keyword	1					Molecular target therapy
Number	Research Field	Н	1	Environmental facilities	1					
		-	-	Infectious diseases	┨				_	Endocrine therapy Drug delivery
		-	\rightarrow		1				_	-
		-	_	Cryopreservation	+				_	Physical therapy
1	T 1	ΙH	_	Biosafety	+					Gene therapy
(20)	Laboratory	-	5	Disease models	\cdot		T.		8	Nucleic acid therapy
6301	animal	-	-	Breeding genetics	1	6403	Tumor		9	Cell therapy
	science			Developmental engineering	-		therapeutics			Humoral immunity
		L	8	Laboratory animal welfare	-					Cell immunity
1	I	1 1	0	Animal experiment technology	1	1	i e	1	12	Antibody therapy

Discipline: Oncology

12 Antibody therapy

13 Immunotherapy

14 Vaccine therapy15 Adoptive immunotherapy

17 Immunosuppression18 Immune activation

16 Cytokine

9 Animal experiment technology

10 Bioresource for research

11 Evaluation methods

Area: Biology

Discipline: Biological Science

Discipline:Genome science

Item	pine: Genome	SCIC		Item	pinie: biologic	ai S	
Number	Research Field	Ι,	Screening Sub-panel Number / Keyword	Number	Research Field	_	Screening Sub-panel Number / Keyword
		l	Genome structural diversity			1	Chromosomal organization, function and
		_	Animal genome				segregation
		l	Plant genome			2	Epigenetics
		_	Microbial genome			3	Chromatin dynamics
		5	Metagenome			_	DNA replication
		6	Organelle genome		Molecular	5	DNA damage and repair
		7	Genome evolution	6701	biology	6	Recombination
	C	8	Genome architecture		blology	7	Transcription and transcriptional regulation
6501	Genome	9	Genome maintenance and repair			8	Post-transcriptional regulation
	biology	10	Expression of genome function			9	RNA
		11	Regulation of gene expression			10	Translation
		12	Transcriptome			11	Post-translational modification
		13	Proteome			12	Super-molecular complex
		14	Metabolome			1	Carbohydrate
		15	Epigenome			2	Lipid
		_	Comparative genome			_	Nucleic acid
		_	Biodiversity			_	Protein
		1	Disease-associated gene			_	Enzyme
		2	Personalized medicine			6	Gene and chromosome
		3	Gene diagnosis			7	Biological membrane and receptor
		4	Human genome diversity			8	Intercellular matrix
		5	Genome medicine	6702	Structural	9	Organelle
		6	Regenerative medicine	0702	biochemistry	_	Posttranslational modification
	Medical	7	Genome-wide association study				Molecular recognition and interaction
6502	genome	l	·			_	Denaturation and folding
	science	8	Human genome resequencing	-		_	
		<u> </u>	Genome of model animals			_	Structural analysis and prediction NMR
		l	Disease epigenomics			\vdash	
		_	Human population genetics			_	Mass spectrometry
		_	Statistical genetics			_	X-ray crystallography
		l	Medical informatics			17	High-resolution electron microscopy
		14	Human and animal bacterial flora			1	Catalytic mechanism of enzyme
		1	Gene networks				Regulation of enzyme
		2	Protein networks				Gene expression and replication
		3	Metabolic networks				Biological energy transduction
		4	Development and differentiation			5	Metalloprotein
		5	Synthetic biology			6	Biological trace element
	System	6	Database biology	6703	Functional	7	Hormone and bioactive substances
6503	genome	7	Biological databases		biochemistry	8	Cell signal transduction
	science	8	Modeling and simulation				Membrane transport and transporters
		9	Bioinformatics			10	Proteolysis
		_	Genome analysis technology			_	Cytoskeleton
		11	Functional RNA			12	Immunobiochemistry
		12	Epigenomic control			_	Glycobiology
		13	Genome biotechnology			14	Bioelectrochemistry
		14	Genetic resources			1	Structures, dynamics and functions of proteins
							and nucleic acids
	ipline:Conserv	<u>vatio</u> r	of biological resources			2	Motility/Transport
Item Number	Research Field		Screening Sub-panel Number / Keyword			3	Biomembranes/Receptors/Channels
		1	Conservation biology			4	Photobiology
		2	Biodiversity conservation			_	Cellular signaling and dynamics
			Conservation of biological strains				Neural information processing
	Conservation	4	Conservation of genetic resources	6704	Biophysics	7	Theoretical biology/Bioinformatics
6601	of biological	5	Ecosystem conservation		'	8	Structural biology
	resources	l	Native species conservation			9	Folding
		7	Microbial culture collections			_	Prediction of structure and function
		8	Cell/Tissue/Seed Preservation				Single-molecule measurements and
	ı		1			11	manipulation
						12	Bioimaging

12 Bioimaging
13 Non-equilibrium/Complex systems

(Discipline: Biological Science)

Item Number	Research Field		Screening Sub-panel Number / Keyword						
			1	Cell structure and function					
			2	Biomembrane					
			3	Cytoskeleton/Cell motility					
			4	Intracellular signaling					
			5	Intercellular communication					
6705	Cell biology		6	Cell cycle					
0703	Cell biology		7	Cytokinesis					
			8	Nuclear structure and function					
			9	Cell-cell interaction/Extracellular matrix					
			10	Protein degradation					
			11	Chromatin					
			12	Organella-genesis and dynamics					
			1	Cell differentiation					
			2	Stem cells					
			3	Germ layer formation and gastrulation					
	Davidammantal		4	Organogenesis					
6706	Developmental biology		5	Fertilization					
	0.0.05		6	Germ cells					
			7	Regulation of gene expression					
			8	Developmental genetics					
			9	Evolution and development					

Discipline:Basic biology

Item Number	Research Field	- 8.	Screening Sub-panel Number / Keyword				
		1	Plastid function/Photosynthesis				
		2	Phytohormones/Growth and				
	Plant	2	development/Totipotency				
6801	molecular	3	Organelles/Cell wall				
0001	biology/Plant	4	Response to environmental factors				
	physiology	5	Plant-microbe interaction/Symbiosis				
		6	Metabolism				
		7	Plant molecular function				
		1	Animal morphology				
		2	Plant morphology				
		3	Microorganisms and algae morphology				
	Morphology/	4	Comparative endocrinology				
6802	Morphology/ Structure	5	Molecular morphology				
	Structure	6	Morphogenesis and simulation				
		7	Tissue construction				
		8	Microstructure				
		9	Microscopic techniques and imaging				
	Animal	1	Metabolism				
	1/	2	Neurobiology				
6803	Animal	3	Neuroethology				
	behavior	4	Behavioral physiology				
		5	Animal physiology and biochemistry				
			Cytogenetics				
			Population genetics				
			Evolutionary genetics				
			Human genetics				
			Genetic diversity				
	Genetics/		Developmental genetics				
6804	Chromosome	7	Behavioral genetics				
	dynamics	8	Mutagenesis				
		9	Chromosome rearrangement and maintenance				
			Model organism development				
			Transposon				
		-	QTL analysis				
		13	Epigenetics				

Research Field Screening Sub-panel Number / Keyword		scipline:Basic biology)							
Evolutionary biology Evolutionary biology Evolutionary biology Evolution of multicellularity Molecular evolution 6 Morphological evolution 7 Evolution of function 8 Evolution of genes 9 Evolutionary biology in general 10 Comparative genomics 11 Experimental evolutionary biology 2 Classification system 3 Evolution 4 Genetic diversity 5 Population/Species diversity 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology		Research Field	Screening Sub-panel Number / Keyword						
Biodiversity/ Systematics Community/Ecosystem diversity Community/Ecosystem diversity Taxonomic character Phylogenetics Speciation Natural history Museum Population Society Speciation Assemblage Ecology/ Environment Ecology/ Environment Behavioral ecology Natural environment Physiological ecology Nolecular ecology Molecular ecology			1	Origin of life					
Evolutionary biology Evolutionary biology Evolution of function Evolution of function Evolution of function Evolution of genes Evolution of genes Evolutionary biology in general Comparative genomics Experimental evolutionary biology Metabolism physiology Classification system Evolution Evolution of function Experimental evolutionary biology Classification system Evolution Evolution Evolution Evolution Evolution of function Experimental evolutionary biology Classification system Evolution Evolution Evolution Evolution Evolution Evolution Evolution Formulation Evolution Formulation Evolution Formulation Formulation Evolution Formulation			2	Origin of eukaryotic organisms					
Evolutionary biology 5 Molecular evolution 6 Morphological evolution 7 Evolution of function 8 Evolution of genes 9 Evolutionary biology in general 10 Comparative genomics 11 Experimental evolutionary biology 2 Classification system 3 Evolution 4 Genetic diversity 5 Population/Species diversity 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecolo			3	Origin of organelles					
Evolutionary biology 6 Morphological evolution 7 Evolution of function 8 Evolution of genes 9 Evolutionary biology in general 10 Comparative genomics 11 Experimental evolutionary biology 1 Metabolism physiology 2 Classification system 3 Evolution 4 Genetic diversity 5 Population/Species diversity 5 Population/Species diversity 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology 10 Mol			4	Origin of multicellularity					
biology Solution of function Evolution of function Evolution of function Evolution of genes Ecology		Evolutionom	5	Molecular evolution					
Fevolution of function	6805		6	Morphological evolution					
6806 Biodiversity/ Systematics Biodiversity/ 5 Population/Species diversity 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology		biology	7	Evolution of function					
10 Comparative genomics 11 Experimental evolutionary biology 1 Metabolism physiology 2 Classification system 3 Evolution 4 Genetic diversity 5 Population/Species diversity 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular e			8	Evolution of genes					
6806 Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ 5 Population/Species diversity Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			9	Evolutionary biology in general					
6806 Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ 5 Population/Species diversity 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			10	Comparative genomics					
6806 Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			11	Experimental evolutionary biology					
6806 Biodiversity/ Systematics Biodiversity/ Systematics Biodiversity/ Systematics 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			1	Metabolism physiology					
6806 Biodiversity/ Systematics 4 Genetic diversity 5 Population/Species diversity 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			2	Classification system					
Biodiversity/ Systematics 5 Population/Species diversity 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			3	Evolution					
6806 Blodiversity/ Systematics 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology		D : 1: :: /	4	Genetic diversity					
Systematics 6 Community/Ecosystem diversity 7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			5	Population/Species diversity					
7 Taxonomic character 8 Phylogenetics 9 Speciation 10 Natural history 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Molecular ecology 9 Molecular ecology 10 Molecular ecology 11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Respectively 8 Molecular ecology 9 Molecular ecology 10 Mole	6806		6	Community/Ecosystem diversity					
Speciation 9 Speciation 10 Natural history 11 Museum		Systematics	7	Taxonomic character					
10 Natural history			8	Phylogenetics					
11 Museum 1 Population 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			9	Speciation					
6807 Ecology/ Environment Ecology/ Environment 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology 10 Molecula			10	Natural history					
6807 Ecology/ Environment Ecology/ Environment Ecology/ Environment 2 Society 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			11	Museum					
6807 Ecology/ Environment 3 Species interaction 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			1	Population					
Ecology/ Environment 4 Assemblage 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			2	Society					
Ecology/ Environment 5 Ecosystem 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			3	Species interaction					
6807 Environment 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology			4	Assemblage					
Environment 6 Evolutionary ecology 7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology		E1/	5	Ecosystem					
7 Behavioral ecology 8 Natural environment 9 Physiological ecology 10 Molecular ecology	6807		6	Evolutionary ecology					
9 Physiological ecology 10 Molecular ecology		Environment	7						
10 Molecular ecology			8	Natural environment					
			9	Physiological ecology					
11 Conservation ecology			10	Molecular ecology					
			11	Conservation ecology					

Disc	cipline:Anthropology								
Item Number	Research Field		Screening Sub-panel Number / Keyword						
		1	Morphology						
		2	Prehistory/Chronology						
		3	Biomechanism						
		4	Molecular anthropology/Genetics						
		5	Ecology						
	Physical	6	Primates						
6901	anthropology	7	Evolution						
	antinopology	8	Growth/Aging						
		9	Society						
		10	Behavior/Cognition						
		11	Reproduction/Development						
		12	Bone archaeology						
		13	Geographic diversity						
		1	Physiological anthropology						
		2	Ergonomics						
		3	Physiological polymorphism						
		4	Environmental adaptive capacity						
		5	Systemic relationship						
	Applied	6	Functional potential						
6902	anthropology	7	Techno-adaptability						
	ununopology	8	Somatometry						
		9	Clothing						
		10	5 omatoro 6 j / 1 to aptatron						
		11	Constitution/Health						
		12	Forensic anthropology						
		13	Medical anthropology						

Area: Agricultural sciences

Area: Agricultural sciences								
	ipline: Plant p	ro <u>d</u> u	action and environmental agriculture					
Item Number	Research Field	_	Screening Sub-panel Number / Keyword					
		1	Gene expression control/Epigenomics					
		2						
		3	Omics analysis					
		4	Tunsposon					
		5	5-B					
		_	Growth/Developmental genetics					
			Genome/Chromosome analysis					
			F					
	Science in		Environmental stress					
7001	genetics and	_	Biotic stress					
	breeding		Yield/Biomass					
	-		Processing suitability/Quality improvement					
			Genetic/Breeding resources/Biodiversity					
			Genetic map/QTL analysis					
		15	Gene introduction/mutagenesis					
'		16	Genome breeding/DNA marker-assisted selection					
		17						
		1 /	Breeding theories/Bioinformatics					
		18	Genetically engineered crop production/Assessment					
	 	1	1					
			Industrial crops Forage and grassland crops					
			Biofuel plants					
'			-					
		6						
		7						
'								
	Crop	9						
7002	production production	<u> </u>	Weed control					
700-	science	_	Allelochemicals					
'	Science	_	Organic farming					
			Environmentally friendly crop production					
			Phytoremediation					
'		_	Management of uncultivated field					
'			Soil fertility management					
			Stress responses					
'		_	Growth environment/Climatic variation					
'		_	Growth forecasting/Modeling					
		1	Fruit trees					
'		2	Vegetable crops					
'		3	Ornamental and landscape plants					
		4	Plant production technology					
		5	Transgenic and molecular biological technology					
'		6	· · · · · · · · · · · · · · · · · ·					
'		7	Pollination/Fertilization/Embryogenesis					
'		8	<u> </u>					
'		9	Plant growth failure and physiological disorders					
'	**1	10	Plant growth regulators					
7003	Horticultural science	11	Plant pigments, aromatic compounds, and					
'	science	11	functional ingredients					
'		12	Environmental response and control					
'			Protected horticulture and plant factory					
'			Postharvest and processing technologies					
'		15	Stock and seed production, and plant					
'		1.0	propagation					
'		16	Plant hunting and plant genetic resources					
	ĺ	17	Biometrics and horticultural robotics					

17 Biometrics and horticultural robotics Horticultural well-being and horticultural therapy (Discipline: Plant production and environmental agriculture)

(Disc	(Discipline: Plant production and environmental agriculture)						
Item Number	Research Field Screening Sub-panel Number / Keyword						
			1	Plant pathogens			
			2	Nematode and parasitic higher plants			
			3	Genome			
			4	Phylogenetic systematics/Evolution			
			5	Pathogenicity and virulence			
			6	Resistance			
			7	Disease occurrence			
			8	Diagnosis of plant diseases			
			9	Identification			
		۱	10	Disease control and treatment of disorder			
		А	11	Infection • ecology • vectors			
			12	Host specificity			
			13	Plant pathological physiology			
			14	Plant-microbe interactions			
			15	Plant physiological diseases			
			16	Postharvest diseases			
			17	Breeding of tolerant crops			
			18	RNA silencing			
			10	Endophyte and mycorrhizal fungus/symbiotic			
			19	bacteria			
			20	Agricultural chemicals and biological control			
	Plant		20	agents			
7004	protection		21	Drug and herbicide-resistance			
	science		22	Disorder by agricultural chemicals			
			23	Plant growth regulators and plant activators			
			24	Natural bioactive substances			
			25	Disease and insect pest management			
			26	Mite and nematode management			
			27	Weed management			
			28	Introduced plants			
			29	Allelopathy			
			30	Integrated pest management			
		В	31	Insect vectors			
				Insect pest population			
			33	Natural enemy			
				Invasive insects and pathogens			
				Insect taxonomy			
				Occurrence forecast			
			37	Management of birds and beasts			
			38	Environmental stress responses / tolerance			
				Plant growing environment			
				Physical and cultural pest control			
			41	Diseases- and insect pest-resistant crops			
			42	Plant wound responses			
			43	Insect–plant interactions			
-		ч					

Disci	oline: Agricultural chemistry					
Item Number	Research Field		Screening Sub-panel Number / Keyword			
		1	Plant physiology, growth and development			
		2	Plant nutrition and metabolism			
		3	Plant metabolic regulation			
		4	Plant molecular physiology			
		5	Fertilizer			
	Plant	6	Pedogenesis/Soil classification			
7101	nutrition/	7	Soil physics			
	Soil science	8	Soil chemistry			
		9	Soil organisms			
		10	Soil environment			
		11	Soil ecology			
		12	Soil fertility			
		13	Soil pollution control			

(Discipline: Agricultural chemistry)

(DIS	(Discipline: Agricultural chemistry)						
Item Number	Research Field		Screening Sub-panel Number / Keyword				
		1	Microbial classification				
		2	Fermentative production				
		3	Microbial physiology				
		4	Microbial genetics/breeding				
		5	Microbial enzyme				
		6	Microbial metabolism				
		7	Microbial function				
	Applied	8	Microbial application				
7102	microbiology	9	Environmental microorganism				
	23		Secondary metabolite production				
			Microbial ecology				
		-	Control of microbe				
		_	Genetic resources				
			Gene expression				
			Metabolic engineering				
			Environmental and cellular responses				
-		$\overline{}$	Microbial genomics				
		1	Animal biochemistry				
		2	Plant biochemistry Enzyma application				
			Enzyme application				
		4	Genetic engineering				
		6	Protein engineering				
		7	Structural biology Bioengineering				
		8	Metabolic engineering				
7103	Applied	9	Enzyme chemistry				
/103	biochemistry		Glycoscience / Lipid science				
		11					
		-	Metabolism and physiology				
			Gene expression				
			Production of useful material				
		-	Cellular response				
			Signal transduction				
		17	<u> </u>				
		1	Bioactive substance				
		2	Regulator of cell function				
		3	Pesticide science				
		4	Plant growth substance				
		5	Signal molecule				
		6	Biosynthesis				
	Biooragnic	7	Natural products chemistry				
7104	chemistry	8	Chemical biology				
		9	Physical chemistry				
		10	Analytical chemistry				
		11	Synthetic organic chemistry				
		-	Bioregulatory chemistry				
			Molecular recognition				
	<u> </u>		Structure-activity relationship				
			Food chemistry				
		2	Food biochemistry				
		3	Food function				
		4	Nutritional chemistry				
		5	Nutritional biochemistry				
		6	Molecular biology of nutrition				
7105	Food science	7	Nutrigenomics				
/105		8	Food physics				
		9	Food analysis				
			Food engineering				
		11	Food manufacturing/processing				
		12	Food storage				
		13	Food safety				

Discipline:	Forest	and fore	st products	science

Discipline: Forest and forest products science						
Item Number	Research Field		Screening Sub-panel Number / Keyword			
		1	Ecology/Biodiversity			
		2	Genetics/Breeding			
		3	Physiology			
		4	Taxonomy			
		5	Environment			
		6	Silviculture			
		7	Pathology/Microorganism			
		8	Insect/Animal			
		9	Planning/Management			
	Formant	10	Policy/Economics			
7201	Forest science	11	Sustainable forestry			
	sciciec	12	Operational system/Road/Machinery			
		13	Erosion control/Slope conservation and torrent			
		13	disaster prevention/Revegetation			
		14	Water resource/Hydrologic cycle			
		15	Material circulation/Flux			
		16	Climate change/Carbon balance			
		17	Biomass			
		18	Landscape ecology/Landscape			
			design/Landscape management			
		19	Environmental education/Forest education			
		1	Wood anatomy			
		2	Wood formation/Physical properties			
		3	Cellulose/Hemicellulose			
		4	Lignin			
		5	Extractives/Bioactive component			
		6	Microbiology			
		7	Mashroom/Wood rotting fungi			
		8	Chemical processing/Adhesion			
7202	Wood science	9	Preservation/Wood culture			
		10	Wood drying			
		11	Machining			
		12	Wood based material			
		13	Strength/Wooden construction			
		14	Habitability			
		15	Forest product education			
		16	Woody biomass			
		17	Pulp and paper			

	ipline: Applied	a	qu				ltu	ral science in society and economy
Item Number	Research Field			Screening Sub-panel Number / Keyword	Item Numbe	Research Field	L.	Screening Sub-panel Number / Keyword
		L	1	Aquatic environment]			1 Food Self-Sufficiency and Food Security
			2	Biological environment]			2 Food Economy
			3	Environmental conservation]			Economy and Planning of Rural Community
			4	Water/Sediment quality				and Fishing Village
			5	Ocean/Material cycle				4 Agriculture Related Industries
			6	Seaweed beds/Tidal flats				Economy of Food, Agriculture and
			7	Restoration/Regeneration				Environment
			8	Environmental microbiology]			6 Food Policy
	1	A	9	Plankton	↓			7 Policy for Agriculture, Forestry and Fishery
		\vdash		Nekton			╽┟	8 International Food Economy and Trade
		\vdash		Benthos	41			Investment and Finance for Agriculture,
		\vdash		Red tide	41		╽┟	Forestry and Fishery
		\vdash		Environmental toxicology	41			Distribution of Food and Agriculture and
				Aquatic ecosystem	41			Fishery Products
	Aquatic	\vdash		Global warming	-	Agricultural	ΙH	11 Food System
7301	bioproduction	\vdash	16	Biodiversity	740	science in	┞	12 Food Safety and Risk Management
	science	+		Remote sensing	-	management		Management in Agriculture, Forestry and
		\vdash		Taxonomy/Morphology	4	and economy	-	Fishery
		\vdash		Ecology/Ethology	-			Assessment of Technology and Knowledge in
				Bio-logging	$\{ \ \cdot \ $		lŀ	Agriculture, Forestry and Fishery
				Resources/Resource management Fisheries	$\{ \ \cdot \ $			Management, Diagnosis and Evaluation on Business
		\vdash		Aquaculture	-		╟	16 Land Utilization
		-		Aquatic animals	-		l ⊢	17 Value Added to Agricultural Product
				Aquatic animais Aquatic plants			I ⊢	18 Marketing
			26 Genetics/Heredity/Breeding		l ⊢	19 Management Ethics and CSR		
				Fish disease/Aquatic pathology	1		l ⊢	20 Cooperative Farming in Community
				Fisheries Engineering	11			Organizational Support to Agriculture, Forestry
		- 2		Fishing community/Fisheries Policy				and Fishery
		\vdash	30 Fisheries Economics/Management/Marketing		I ⊢	22 Driving Force for Management		
		⊢		Fisheries education	-		I ⊢	23 Information System for Food and Agriculture
		+		Fisheries Development Developmental biology	-		I -	 Entry of Enterprise into Agriculture Agricultural Extension
				Physiology	┧┢──		\vdash	1 Rural Society
		_	3	Immunology/Biological defense	11			2 Rural Life
		r	4	Metabolism/Enzyme	11			Direct Linkage with Production and
			5	Fish nutrition				Consumption in Local Area
		_		Biochemistry	41		╽┟	4 Education for Food and Agriculture
		\vdash		Molecular biology	4		╽┟	5 Leader in Rural Community and NPO
		-		Marine genomics Genetic resources	-		┞	6 Interaction between Urban and Rural Inhabitant
		⊢		Bioengineering	-			Women Participation in Agriculture and Social Activities
				Functional microbiology	11	Agricultural	╟	8 Society and Culture in Rural Community
				Glycobiology	740	science in rural society	l F	Multiple Functions in Agriculture and Rural
			13	Chemical biology	1 /40	and		Community
7302	Aquatic life		14	Biomimetics]	development		Agricultural History and Comparison on
	science		15	Bioactive substance	41	de veropinent	╽┟	Farming System
		⊢		Natural products chemistry	-		ı ⊢	11 Ideology and Ethics in Agriculture
				Biopolymer Analytical chemistry	-		╟	12 International Agriculture 12 International Development for Rural
			19	Aquatic food chemistry	11			Community and Fishing Village
		\vdash		Functional food	11			14 Project Management for Rural Development
			21	Aquatic food processing/Preservation]			15 Extension and Transfer on Technology
				Food microbiology	11			16 Dietary Transition
				Food hygiene and sanitation	↓		Ц	17 Commons
				Aquatic biotoxin	-			
		\vdash		Food safety Zero emission	1			
		⊢	27	Aquatic biomass utilization	1			
		_		Bioenergy	1			
				<i>OJ</i>	-			

Discipline: Agro-engineering

Research Field Screening Sub-panel Number / Keyword	Disci	Discipline: Agro-engineering							
Rural environment S Rural environment S Rural environment S Rural development and sustainability	Item Number	Research Field		Screening Sub-panel Number / Keyword					
Rural environments of Rural landscape and ecosystem Rural environmental environmental engineering/ Planning Rural environmental conservation 13				1	Irrigation and drainage				
Rural environmental engineering/Planning Rural Rural Rural Rural Rural Rural environmental engineering/Planning Rural Rural povernance 10 Disaster prevention 11 Agricultural facilities and stock management 12 Soil environmental conservation 13 Agricultural agriculture and rural development 14 Rural roads 15 Rural sewerage 16 International agriculture and rural development 17 Hydraulics 18 Hydrometeorology 19 Water environment 20 Soil physics 21 Soil mechanics 22 Applied mechanics 23 Design and construction materials 25 Design and construction materials 26 Agricultural 27 Soil production system 28 Bioproduction machinery 39 Greenhouse horticulture/Plant factory 40 Environment control in biology 51 Bioprocessing 61 Agricultural production environment 62 Agricultural environment and global warming 63 Rural sewerage 64 International agriculture production environment 7 Agricultural meteorology/Micrometeorology 7 Remewable energy 7 Earming technology management 7 Agricultural labour science 14 Postharvest engineering 15 Supply chain management 16 Bioinstrumentation 17 Cell measurement techniques 18 Nondestructive measurement 19 Imaging analysis 20 Environmental stresses 21 Biosensing 22 Emore sensing 23 Agribioinformatics 24 Agricultural ond image recognition 25 Geographic information and image recognition 26 Modeling/Simulation 27 Computer network and ICT 28 Agricultural information 38 Identifying an information 39 Bioenvironmental information 30 Bioenvironmental information				2	Reclamation and conservation of agricultural land				
Rural environmental environmental engineering/ Planning Rural governance 10 Rural governance 11 Disaster prevention 12 Soil environmental conservation 13 Agricultural facilities and stock management 14 Rural roads 15 Rural sewerage 16 International agriculture and rural development 17 Hydraulics 18 Hydrometeorology 19 Water environment 20 Soil physics 21 Soil mechanics 22 Applied mechanics 23 Design and construction materials 1 Bioproduction system 2 Bioproduction machinery 3 Greenhouse horticulture/Plant factory 4 Environment control in biology 5 Bioprocessing 6 Agricultural production environment 7 Agricultural meteorology/Micrometeorology 8 Meteorological disasters 9 Global environment and global warming 10 Environmental remediation and greening process 11 Renewable energy 12 Farming technology management 13 Agricultural labour science 14 Postharvest engineering 15 Supply chain management 16 Bioinstrumentation 17 Cell measurement techniques 18 Nondestructive measurement 19 Imaging analysis 20 Environmental stresses 21 Biosensing 22 Image information and image recognition 23 Agribioinformatics 24 Remote sensing 25 Geographic information system Modeling/Simulation 27 Computer network and ICT 28 Agricultural robotics 29 Precision agriculture 30 Bioenvironmental information				3	Rural planning				
Rural environmental environmental engineering/ Planning Rural Planning Rural environmental engineering/ Planning Rural environmental conservation 13				4	Rural environment				
Rural environmental environmental engineering/ Planning Rural Planning Rural environmental engineering/ Planning Rural environmental conservation 13				5	Rural landscape and ecosystem				
Rural environmental engineering/ Planning Rural Planning Rural environmental engineering/ Planning Rural environmental engineering/ Planning Rural environmental engineering/ Planning Rural environmental engineering/ Planning Rural governance 11 Disaster prevention 12 Soil environmental conservation 13 Agricultural facilities and stock management 14 Rural roads 15 Rural sewerage 16 International agriculture and rural development 17 Hydraulics 18 Hydrometeorology 19 Water environment 20 Soil physics 21 Soil mechanics 22 Applied mechanics 23 Design and construction materials 1 Bioproduction system 2 Bioproduction system 2 Bioproduction machinery 3 Greenhouse horticulture/Plant factory 4 Environment control in biology 5 Bioprocessing 6 Agricultural meteorology/Micrometeorology Agricultural meteorology/Micrometeorology Agricultural meteorology/Micrometeorology 11 Renewable energy 12 Farming technology management 13 Agricultural labour science 14 Postharvest engineering 15 Supply chain management 16 Bioinstrumentation 17 Cell measurement techniques 18 Nondestructive measurement 19 Imaging analysis 20 Environmental stresses 21 Biosensing 22 Image information and image recognition 23 Agribioinformatics 8 24 Remote sensing 25 Geographic information system 26 Modeling/Simulation 27 Computer network and ICT 28 Agricultural information 30 Ricenvironmental information				6	Rural development and sustainability				
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Rural environmental engineering/ Planning Rural planning Rural environmental engineering/ Planning Rural planning Rural engineering/ Planning Rural powernance 10									
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16 International agriculture and rural development 17 Hydraulics 18 Hydrometeorology 19 Water environment 20 Soil physics 21 Soil mechanics 22 Applied mechanics 23 Design and construction materials 1 Bioproduction system 2 Bioproduction machinery 3 Greenhouse horticulture/Plant factory 4 Environment control in biology 5 Bioprocessing 6 Agricultural production environment 7 Agricultural meteorology/Micrometeorology 8 Meteorological disasters 9 Global environment and global warming 10 Environmental remediation and greening process 11 Renewable energy 12 Farming technology management 13 Agricultural labour science 14 Postharvest engineering 15 Supply chain management 16 Bioinstrumentation 17 Cell measurement techniques 18 Nondestructive measurement 19 Imaging analysis 20 Environmental stresses 21 Biosensing 22 Image information and image recognition 23 Agribioinformatics 24 Remote sensing 25 Geographic information system 26 Modeling/Simulation 27 Computer network and ICT 28 Agricultural robotics 29 Precision agriculture 30 Bioenvironmental information 31 Agricultural information 32 Agricultural information 33 Agricultural information 34 Agricultural information 35 Agricultural information 35 Agricultural information 35 Agricultural information 36 Agricultural information 36 Agricultural information 36 Agricultural information 37 Agricultural information 38 Agricultural information 39 Agricultural information 30 Agricultural informati		Flaming							
17 Hydraulics 18 Hydrometeorology 19 Water environment 20 Soil physics 21 Soil mechanics 22 Applied mechanics 23 Design and construction materials 1 Bioproduction system 2 Bioproduction machinery 3 Greenhouse horticulture/Plant factory 4 Environment control in biology 5 Bioprocessing 6 Agricultural production environment 7 Agricultural production environment 7 Agricultural production environment 7 Agricultural meteorology/Micrometeorology 8 Meteorological disasters 9 Global environment and global warming 10 Environmental remediation and greening process 11 Renewable energy 12 Farming technology management 13 Agricultural labour science 14 Postharvest engineering 15 Supply chain management 16 Bioinstrumentation 17 Cell measurement techniques 18 Nondestructive measurement 19 Imaging analysis 20 Environmental stresses 21 Biosensing 22 Image information and image recognition 23 Agribioinformatics 24 Remote sensing 25 Geographic information system 26 Modeling/Simulation 27 Computer network and ICT 28 Agricultural robotics 29 Precision agriculture 30 Bioenvironmental information 31 Agricultural information 32 Agricultural information 33 Agricultural information 34 Agricultural information 35 Agricultural information 35 Agricultural information 36 Agricultural information 37 Agricultural information 38 Agricultural information 39 Agricultural information 30 Agricultural information 30 Agricultural information 30 Agricultural information 30 Agricultural information 31 Agricultural information				15	Rural sewerage				
17 Hydraulics 18 Hydrometeorology 19 Water environment 20 Soil physics 21 Soil mechanics 22 Applied mechanics 23 Design and construction materials 1 Bioproduction system 2 Bioproduction machinery 3 Greenhouse horticulture/Plant factory 4 Environment control in biology 5 Bioprocessing 6 Agricultural production environment 7 Agricultural production environment 7 Agricultural production environment 7 Agricultural meteorology/Micrometeorology 8 Meteorological disasters 9 Global environment and global warming 10 Environmental remediation and greening process 11 Renewable energy 12 Farming technology management 13 Agricultural labour science 14 Postharvest engineering 15 Supply chain management 16 Bioinstrumentation 17 Cell measurement techniques 18 Nondestructive measurement 19 Imaging analysis 20 Environmental stresses 21 Biosensing 22 Image information and image recognition 23 Agribioinformatics 24 Remote sensing 25 Geographic information system 26 Modeling/Simulation 27 Computer network and ICT 28 Agricultural robotics 29 Precision agriculture 30 Bioenvironmental information 31 Agricultural information 32 Agricultural information 33 Agricultural information 34 Agricultural information 35 Agricultural information 35 Agricultural information 36 Agricultural information 37 Agricultural information 38 Agricultural information 39 Agricultural information 30 Agricultural information 30 Agricultural information 30 Agricultural information 30 Agricultural information 31 Agricultural information				16	International agriculture and rural development				
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29 Precision agriculture 30 Bioenvironmental information 31 Agricultural information				27	Computer network and ICT				
30 Bioenvironmental information 31 Agricultural information				28	Agricultural robotics				
31 Agricultural information				29	Precision agriculture				
				30	Bioenvironmental information				
32 Farming information				31	Agricultural information				
			L	32	Farming information				

Disci	ipline: Animal	life science
Item	Research Field	Scree

Research Field		ipline: Animal	l li	fe s	
Animal	Item Number	Research Field	L		Screening Sub-panel Number / Keyword
Animal Animal Animal Production science Animal Animal Animal Production science Animal Production Science Animal Animal Animal Production Science Animal Management/Welfare Benvironment Forazing Inferiative animal science Animal product Integrative animal science Animal Representative animal science Animal management/Welfare Benvironduction system Grassland/Pasture Grassland/Pasture Inferiative animal science Animal product Integrative animal science Integrative Integrat				1	
Animal				2	Reproduction
Animal			Α	3	
Animal production science Animal production science Animal production science Be Environment 9 Facilities/Production system 10 Grassland/Pasture 11 Garazing 12 Animal product 13 Manure management 14 Livestock biomass 15 Livestock farming 16 Marketing of livestock products 1 Pathology 2 Pathophysiology 3 Pharmacology 4 Toxicology 5 Pathogenic microorganism 6 Zoonosis 7 Parasitology 8 Veterinary public health 9 Epidemic prevention 10 Epidemiology 11 Internal medicine 12 Surgery 13 Veterinary reproduction/Obstetrics 14 Diagnostics/Laboratory examination 15 Clinical pathology 16 Therapy/Nursing 17 Disease prevention and control 18 Anesthesia/Analgetics 19 Radiology 20 Animal welfare/Ethics 1 Physiology 2 Histology 3 Anatomy 4 Endocrinology 5 Cellular function 6 Immunology 7 Host defense 8 Genetics 9 Epigenetics 10 Genome 11 Development/Differentiation 12 Bioinformatics 13 Ecology 14 Ethology 15 Psychology 16 Genetic engineering 17 Cellular engineering 18 Development/Differentiation 19 Sem cell 20 Regenerative therapy 21 Imaging 22 Midlife 23 Experimental animal 24 Animal models of disease 25 Companion animal 26 Animal-assisted therapy 27 Bioresource				4	Feed/Feedstuff
Animal production science 7 Animal management/Welfare 8 Environment 9 Facilities/Production system 10 Grassland/Pasture 11 Grazing 12 Animal product 13 Manure management 14 Livestock biomass 15 Livestock farming 16 Marketing of livestock products 17 Pathology 2 Pathophysiology 3 Pharmacology 4 Toxicology 5 Pathogenic microorganism 6 Zoonosis 7 Parasitology 8 Veterinary public health 9 Epidemic prevention 10 Epidemiology 11 Roteral medicine 12 Surgery 13 Veterinary reproduction/Obstetrics 14 Diagnostics/Laboratory examination 15 Clinical pathology 16 Therapy/Nursing 17 Disease prevention and control 18 Anesthesia/Analgetics 19 Radiology 20 Animal welfare/Ethics 4 Endocrinology 5 Cellular function 6 Genetic 9 Epigenetics 10 Genome 11 Deve				5	Metabolism/Endocrine control
Administration Science				6	Animal hygiene
Administration Science		A 1		7	Animal management/Welfare
Science Science 10 Grassland/Pasture	= 404			8	
Science	7601	l*		9	Facilities/Production system
Fig. 2 Fig. 2 Fig. 2 Fig. 2 Fig. 2 Fig. 2		science		10	·
Toxicology Pathophysiology			В	11	Grazing
Toxicology Pathophysiology				12	Animal product
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Veterinary medical science Veterinary medical science				7	Parasitology
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14 Diagnostics/Laboratory examination 15 Clinical pathology 16 Therapy/Nursing 17 Disease prevention and control 18 Anesthesia/Analgetics 19 Radiology 20 Animal welfare/Ethics 1 Physiology 2 Histology 3 Anatomy 4 Endocrinology 5 Cellular function 6 Immunology 7 Host defense 8 Genetics 9 Epigenetics 10 Genome 11 Development/Differentiation 12 Bioinformatics 13 Ecology 14 Ethology 15 Psychology 16 Genetic engineering 17 Cellular engineering 18 Developmental biotechnology 19 Stem cell 20 Regenerative therapy 21 Imaging 22 Wildlife 23 Experimental animal 24 Animal models of disease 25 Companion animal 26 Animal-assisted therapy 3 Bioresource 27 Bioresource 27 Bioresource 27 Bioresource 27 Bioresource 27 Bioresource 28 B				13	Veterinary reproduction/Obstetrics
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A A Genetics				4	Endocrinology
7603 Integrative animal science From the proof of the pr				5	Cellular function
7603 Integrative animal science From the proof of the pr				6	Immunology
Page					
10 Genome 11 Development/Differentiation 12 Bioinformatics 13 Ecology 14 Ethology 15 Psychology 16 Genetic engineering 17 Cellular engineering 18 Developmental biotechnology 19 Stem cell 20 Regenerative therapy 21 Imaging B 22 Wildlife 23 Experimental animal 24 Animal models of disease 25 Companion animal 26 Animal-assisted therapy 27 Bioresource 10 Genome 10 Developmentation 10 Evelopmental 10			Α	8	Genetics
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Integrative animal science				10	Genome
Integrative animal science				11	Development/Differentiation
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26 Animal-assisted therapy27 Bioresource					
27 Bioresource					
28 Biodiversity					
				28	Biodiversity

	Discipline: Boundary agriculture						
Item Number	Research Field			Screening Sub-panel Number / Keyword			
		١	1	Insect technology and biomaterial production			
			2	Sericulture, silk			
			3	Insect pathology			
			4	Entomopathogenic microbes and viruses			
			5	Insect ecology			
			6	Insect physiology and biochemistry			
			7	Insect molecular biology			
			8	Insect behavior			
7701			9	Insect population, community			
			10	Insect evolution and systematics			
	Insect science			Insect genetics and genomics			
				Insect development and reproduction			
				Life history, seasonal adaptation			
				Chemical ecology			
				Chemical and physical communications			
				Symbiosis, parasitism			
				Spiders, mites, nematodes			
				Apiculture			
				Pollination			
			-	Social insects			
				Insect mimetics			
			1	Biomass			
			2	2			
			_	Genetic resource			
				Biodiversity			
				Environmental analysis			
		A	_	Environmental remediation			
			7	Environmental purification			
			8	1			
			9				
				Ecosystem services Resources-Environment balance			
				Resource recycling systems Environmental value-assessment			
				Low-carbon society			
				LCA			
			_	Environmentally friendly agriculture			
				Watershed management			
	Б		_	Integrated agriculture and fisheries			
	Environmental			Regional agriculture			
7702	agriculture			Landscape design			
1102	(including landscape			Landscape design Landscape architecture			
	science)		22				
	,			Landscape formation/Landscape conservation			
				Cultural landscape			
				Nature conservation/Nature restoration			
				Urban environmental design			
			_	Natural environmental assessment			
				Biotope			
				Public interest functions of ecosystem			
		В		Landscape ecology			
		1	31				
		1	32				
		1	_	Urban park/Disaster prevention park			
			34	· · · · · ·			
		1	35				
		1	36				
		1	37				
			38	·			
		1	39				
		1_	37	Social and environmental contribution green			

(Discipline: Boundary agriculture)

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Item Number	Research Field	Screening Sub-panel Number / Keyword				
		1 Cell biology				
		2 Chromosome engineering				
		3 Glycosylation engineering				
		4 Organelle engineering				
		5 Cell / Tissue engineering				
		6 Epigenetics				
		7 Gene expression				
		8 Development/Differentiation control				
	Applied molecular and cellular biology	9 Cell-cell interaction				
7703		10 Intermolecular interaction				
1103		11 Biological interaction				
		12 Biosensor				
		13 Cellular function				
		14 Molecular imformation				
		15 Functional-molecule design				
		16 Proteomics				
		17 Metabolomics				
		18 Production of useful material				
		19 Culture engineering				
		20 Biologics				

Area: Medicine, dentistry, and pharmacy

Discipline: Pharmacy

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Item	ipline: Pharma	icy	
Number	Research Field	_	Screening Sub-panel Number / Keyword
		1	Organic chemistry
		2	Synthetic organic chemistry
	Chemical	3	Biomolecules
7801	pharmacy	4	Natural products chemistry
	pharmacy	5	Mechanistic organic chemistry
		6	Heterocyclic chemistry
		7	Asymmetric synthesis
		1	Physical chemistry
		2	Analytical chemistry
			Galenical pharmacy
			Biophysical chemistry
	D1 ' 1		Isotope pharmacentical chemistry
7802	Physical		Biocomplex chemistry
	pharmacy		Molecular structure science
		-	Structural biology
			Imaging
			Drug delivery
			Information science
			Biochemistry
			Molecular biology
	Biological		Immunology Call biology
7803			Cell biology
	pharmacy		Developmental biology
			Functional genomics
			Physiological chemistry
			Endocrinology
			Pharmacology
			Analytical pharmacology
			Neurobiology
7804	Pharmacology	4	Drug therapeutics
7001	in pharmacy	5	Cellular signal transduction
		6	Toxicology and drug safety
		7	Systems pharmacology
		8	Pharmacogenomics
		1	Pharmacognosy
		2	Medicinal resources
		3	Natural medicines
	NT . 1	4	Traditional Chinese-Japanese medicines
7805	Natural	5	Ethnomedicines
	medicines	6	Biosynthesis
		7	Antibiotics and microbial medicines
		8	Bioactive natural compounds
			Medicinal foods
			Medicinal chemistry
			Medicinal molecular design
	_		Lead discovery
	Drug		Functional science of medicinal molecules
7806	development	5	Genomic drug development
	chemistry	6	Regulatory science
		7	Chemical biology
			Biopharmaceutical
			Environmental hygiene
		2	Environmental chemistry
			Environmental dynamics
	Environmental		Food hygienics
7807	and hygienic	5	Chemical nutrition
	pharmacy		Microbiology and infectious diseases
		-	Toxicology
		8	Environmental toxicology
		9	Cosmetic and fragrance science
		10	Hygienic tests

Item	Research Field		<i>J</i> /	Screening Sub-panel Number / Keyword
Number		h	1	Pharmacokinetics
			2	Drug metabolism
			3	Transporter
			4	Screening system for pharmacokinetics and
		1	+	metabolism
			5	Prediction system for human pharmacokinetics
			,	and metabolism
7808	Medical		6	Clinical chemistry
7000	pharmacy		7	Personalized medicine
			8	Clinical pharmaceutical sciences
			9	Medical pharmaceutics
			10	Drug information and clinical toxicology
		2	11	Drug economics
			_	Social pharmacy
			_	Hospital pharmacy and pharmacy administration
			14	Clinical pharmacy education

Item Number	Research Field			Screening Sub-panel Number / Keyword
			1	Gross anatomy
			2	Functional anatomy
			3	Clinical anatomy
				Comparative anatomy
		1	5	Radiological anatomy
			6	Morphogenesis and embryogenesis
	General			Teratology
	anatomy		8	Experimental morphology
7901	(including		9	Anatomical education
	histology/		10	Cytology
	embryology)		11	Histology
				Cell differentiation and tissue formation
		2	13	Cell function and morphology
		2		Ultrastructural morphology
				Molecular morphology
				Histocytochemistry
				Microscopic technology
		Ī		Molecular and cellular physiology
			2	Biological membrane, channel, transporter
			2	and active transport
			3	Receptor and intracellular signal transduction
			4	Stimulation-secretion coupling
			5	Epithelial function
			6	Heredity, fertilization, development and
			0	differentiation
			7	Cellular proliferation and cell death
			8	Cellular motility, morphogenesis and
			٥	intercellular interaction
7002	General		9	Microcirculation, peripheral circulation,
7902	physiology		9	circulation dynamics and regulation
	1)		10	Ventilation mechanics, blood gas function and
			10	respiratory control
			11	Gastrointestinal motility, absorption and
			11	digestion
			12	Renal function, body fluids, and acid-base
			12	balance
			13	Blood coagulation and rheology
				Pathophysiology
			15	System physiology and physiome
				Comparative, developmental and genome physiolog
			17	Muscular physiology

(Discipline: Basic medicine)

Secretary Press Pathological medicial chemistry Pathological medicial chemistry (sellular medicial chemistry) P	Item	cipline: Basic i	IIIC	carc	
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13 Transplantation pathology					
			L	13	Transplantation pathology

(Dis	cipline: Basic	me	dic	ine)
Item Number	Research Field			Screening Sub-panel Number / Keyword
			1	Cell injury
			2	Tumors
		1	3	Genetic disorders
			4	Environmental diseases
			5	Regenerative medicine
7909	Experimental		6	Inflammation
7909	pathology		7	Hemodynamic disorders
			8	Immune diseases
		2	9	Infectious diseases
			10	Metabolic diseases
			11	Pediatric pathology
			12	Animal models
			1	Helminth
			2	Protozoa
			3	Arthropod vector
	Parasitology		4	Pathogenic animals
7910	(including			International health
/910	sanitary		6	Molecules and cells
	zoology)		7	Development and genetics
				Epidemiology
				Diagnosis and treatment
				Prevention and control
		П	1	Genomes and genetics
			2	Structure and physiology
			3	Classification
	Bacteriology		4	Pathogenicity
7911	(including			Toxins and effectors
	mycology)		6	Drug resistance
	, ,			Epidemiology
			8	Diagnosis and treatment
			9	Prevention and control
		T	1	Molecules and structure
			2	Cells and replication
				Organisms and pathogenicity
7912	Virology			Epidemiology
				Diagnosis and treatment
			_	Prevention and control
				Prions
		H	1	Cytokines
			2	Signal transduction
			3	Antibodies and complements
			4	Innate immunity
			5	Acquired immunity
				Mucosal immunity
				Immunological memory
7913	Immunology		8	Immune tolerance and autoimmunity
			9	Immune surveillance and tumor immunology
			_	Immunodeficiency
				Allergy and immune-related disorder
				Infection immunity
				Inflammation
			13	Immunoregulation and transplantation
			14	immunology
	I	Ш		Immunology

Disci	ipiine: Bounda	ıry	medicine
Item Number	Research Field	Screening Sub-panel Number / Keyword	
			1 Bioethics
	Medical sociology		Medical, Dental and Pharmaceutical Education
			3 Medical history
	sociology		4 Health economics
			5 Medical behavioral science

(Discipline: Boundary medicine)

(1)15	cipline: Bounda	
Number	Research Field	Screening Sub-panel Number / Keyword
		Clinical pharmacology
		2 Clinical trials and ethics
		3 Pharmaceutical therapeutics
		4 Adverse drug reaction and drug interaction
		5 Drug transport mechanism
		6 Pharmacogenomics
	A multiped	7 Clinical isotope pharmacy
8002	Applied pharmacology	8 Medical devices and pharmacy
	pharmacology	Drug metabolic enzyme and tranporter
		10 Imaging
		11 Research using human tissue
		12 Drug dependence and drug sensitivity
		13 Genetic diagnosis and gene therapy
		14 Drug delivery
		15 Pharmacoepidemiology
		Clinical laboratory medicine
		2 Clinical pathology
		3 Clinical chemistry
		4 Immunology and serology
	Laboratory	5 Clinical laboratory system
8003	medicine	6 Genetic testing
		7 Clinical microbiology
		8 Laboratory oncology
		9 Clinical hematology
		10 Physiological laboratory testing
		1 Evaluation methods of pain
		2 Epidemiology of pain
		3 Analgesic
		4 Non-drug therapy
		5 Pain producing substance (PPS), Algesic substance
		6 Generating or exacerbating mechanism of pain
		7 Neural mechanism of pain
		8 Hyperalgesia
		9 Genetic factors of pain
		10 Development or aging factors of pain
		11 Gender difference in pain
		12 Pain withdrawal reflex
		13 Numbness, Hypesthesia
8004	Pain science	14 Nociceptor
	T dill Solollo	15 Histopathic pain, Histotoxic pain
		16 Neuropathic pain, Neuralgia
		17 Psychological pain
		1 1
		18 Itching, pruritus 19 Epidemiology of itching, or pruritus
		20 Antiprurities 21 Itch producing substances
		21 Itch-producing substances
		22 Generating or exacerbating mechanism of pruritus
		23 Neural mechanism of pruritus
		24 Curettage behavior
1		25 Hyperknesis
		26 Psychological itching27 Development or aging factors of itching

Discipline: Society medicine

Disci	ipline: Society	me	dicine
Item Number	Research Field		Screening Sub-panel Number / Keyword
			1 Epidemiology
			2 Clinical epidemiology
			Clinical trial
		4	4 Clinical statistics
	Epidemiology		5 Environmental epidemiology
8101	and	-	Molecular epidemiology
0101	preventive		7 Preventive medicine
	medicine	:	Medical examination
		9	9 Screening
		1	0 Mass-screening
		1	1 Health management
		1	2 Health promotion

(Discipline: Society medicine)

		ociety medicine)				
Item Number	Research Field		Screening Sub-panel Number / Keyword			
		1	Environmental health			
		2	Occupational health			
		3	Food sanitation			
		4	Community health			
		5	Community medicine			
8102	Hygiene and	6	Maternal and child health			
8102	public health	7	Adult health			
		8	Elderly health			
		9	Global Health			
		10	Health administration			
		11	Health policy			
		12	Care and welfare			
		1	Hospital management			
		2	Medical administration			
	Medical and	3	Medical informatics			
9102		4	Quality of medical care			
8103	hospital	5	Medical record management			
	management	6	Risk management			
		7	Nosocomial infection management			
		8	Critical path			
		1	Forensics			
		2	Forensic examination			
8104	Legal	3	Alcohol research			
0104	medicine	4	Forensic odontology			
		5	DNA polymorphism			
		6	Forensic pathology			

Item Number	Research Field			Screening Sub-panel Number / Keyword
			1	Psychosomatic internal medicine
	General		2	Stress science
	internal		3	Oriental medicine
8201	medicine		4	Alternative medicine
0201	(including		5	Palliative medicine
	psychosomati		6	General medicine
	c medicine)		7	Primary care
			8	Geriatrics
		1	1	Upper gastroenterology (esophagus, stomach, duodenum)
		2	2	Lower gastroenterology (small intestine, colon
8202	Gastroenterology	3	3	Hepatology
		4	4	Biliary-Pancreatology
		5	5	Digestive endoscopy
		1	1	Clinical Cardiology
0202	Cardiovascular	2	2	Clinical Angiology
8203	medicine	3	3	Molecular Cardiology
		4	4	Molecular Angiology
0204	Respiratory organ	1	1	Clinical respirology
8204	internal medicine	2	2	Molecular and cellular respirology
	Vidnov	1	1	Nephrology
	Kidney internal	П	2	Hypertension
8203		2	3	Water and electrolyte metabolism
	medicine		4	Hemodialysis
		1	1	Molecular pathophysiology
			2	Neuroimmunology
			3	Clinical molecular neurogenetics
8206	Neurology		4	Clinical neurophysiology
			5	Clinical neuromorphology
		2	6	Clinical neuropsychology
			7	Functional neuroimaging
			1	Disturbances of energy and carbohydrate metabolis
		1	2	Metabolic syndrome
0207		П	3	Abnormal lipid metabolism
8207	Metabolomics		4	Disorder of purine metabolism
		2	5	Abnormal bone and calcium metabolism
			6	Metabolic electrolyte abnormality
0200	F 1 : 1	П	1	Endocrinology
8208	Endocrinology	ı	2	Reproductive endocrinology

(Discipline: Clinical internal medicine)

Item	cipline: Clinica	<u> </u>	iiic	
Number	Research Field	H		Screening Sub-panel Number / Keyword
		1		Hematology
				Hematology/Oncology
			-	Thrombosis/Hematostasis
8209	Hematology		4	Transfusion medicine
		2		Hematopoietic stem cell transplantation
			6	Hematology/Immunology
			7	Immune regulation
		1	1	Connective tissue diseases
	Collagenous	1	2	Rheumatology
8210	pathology/		3	Allergology
	Allergology	2		Clinical immunology
	0 03			Inflammation
		T		Infection diagnosis
				Infection therapy
	Infectious			Infection prevention
8211	disease			International infection science
	medicine		_	Infection epidemiology
			_	1 0,
		\vdash		Opportunistic infection
		1		Developmental pediatrics
				Growth and developmental medicine
				Pediatric neurology
		1		Pediatric endocrinology
		1	_	Pediatric metabolism/Nutrition
			6	Hereditary/Teratology
			7	Pediatric health
			8	Pediatric social medicine
8212	Pediatrics		_	Pediatric hematology
				Pediatric oncology
		2		Pediatric immunology/Allergy/Connective
		ľ	11	tissue diseases
			12	Pediatric infectious disease
				Pediatric cardiology
		3		Pediatric respirology
				Pediatric nephrology/Urology
		L		Pediatric gastroenterology
				Prenatal diagnosis
	Embryonic/		_	Fetal medicine
8213	Neonatal			Teratology
	medicine		4	Neonatal medicine
			5	Premature baby medicine
				Skin diagnostics
				Mechanisms of skin diseases
		1	3	Cutaneous physiology and biology
			_	Laser/photobiology
	_	Г		Dermatologic oncology
8214	Dermatology	1		Pigment cell biology
			7	Cutaneous immunology and inflammation
		2	8	Infectious diseases
			0	
			_	Regenerative dermatology
			10	Skin genetics
		1	10	Skin genetics Psychopharmacology
		1	10 1 2	Skin genetics Psychopharmacology Clinical molecular genetics
		1	10 1 2 3	Skin genetics Psychopharmacology Clinical molecular genetics Psychophysiology
		1	10 1 2 3 4	Skin genetics Psychopharmacology Clinical molecular genetics Psychophysiology Psychopathology
	Psychiatria	1	10 1 2 3 4	Skin genetics Psychopharmacology Clinical molecular genetics Psychophysiology
8215	Psychiatric	1	10 1 2 3 4 5	Skin genetics Psychopharmacology Clinical molecular genetics Psychophysiology Psychopathology
8215	Psychiatric science	1	10 1 2 3 4 5	Skin genetics Psychopharmacology Clinical molecular genetics Psychophysiology Psychopathology Social psychiatry Child and adolescence psychiatry
8215			10 1 2 3 4 5 6 7	Skin genetics Psychopharmacology Clinical molecular genetics Psychophysiology Psychopathology Social psychiatry Child and adolescence psychiatry Geriatric psychiatry
8215			10 1 2 3 4 5 6 7 8	Skin genetics Psychopharmacology Clinical molecular genetics Psychophysiology Psychopathology Social psychiatry Child and adolescence psychiatry Geriatric psychiatry Forensic psychiatry
8215			10 1 2 3 4 5 6 7 8	Skin genetics Psychopharmacology Clinical molecular genetics Psychophysiology Psychopathology Social psychiatry Child and adolescence psychiatry Geriatric psychiatry Forensic psychiatry Neuropsychology
8215			10 1 2 3 4 5 6 7 8 9	Skin genetics Psychopharmacology Clinical molecular genetics Psychophysiology Psychopathology Social psychiatry Child and adolescence psychiatry Geriatric psychiatry Forensic psychiatry

(Discipline: Clinical internal medicine)

Item		11 1	i internal medicine)				
Number	Research Field	L		Screening Sub-panel Number / Keyword			
		Ш	1	Medical imaging (including diagnostic radiology)			
		1	2	X-Ray/CT			
			3	Magnetic resonance imaging			
			4	Nuclear medicine (including PET)			
			5	Ultrasonography			
			6	Radiopharmaceuticals/Contrast medium			
			7	Radiation protection and safety management			
			8	Medical imaging technology			
		2	9	Interventional radiology			
			10	Angioplasty/Osteoplasty/Vascular embolization			
8216	Radiation		11	Radiofrequency ablation (RFA)/Stent			
0210	science			treatment/Reserver treatment			
			12	Hyperthermia			
			13	Ultrasound therapy			
			14	Radiation emergency medicine			
			15	Medical radiation biology			
		3	16	Therapeutic radiology			
			17	Radiation oncology			
			18	Radiotherapy physics			
			19	Radiotherapy biology			
				Particle beam therapy			
				Radiation technology			

Item Number	Research Field	L.		Screening Sub-panel Number / Keyword
			1	General surgery
		Ш	2	Transplant surgery
		1	3	Artificial organs science
8301	General surgery			Endoscopic surgery
		Ш		Robotic surgery
			6	Experimental surgery
		2	7	Endocrine surgery
		ا آ	8	Breast surgery
		Ц	9	Surgical metabolism and nutrition
		1	1	Esophageal surgery
		Ĺ	2	Gastroduodenal surgery
	Digestive	2	3	Colorectal surgery
8302.1	surgery	3	4	Hepatic surgery
	surgery		5	Surgery for spleen and portal vein
		4	6	Biliary surgery
		Ľ	7	Pancreatic surgery
		Ш	1	Coronary surgery
		1	2	Heart valve surgery
			3	Surgery in cardiomyopathy
83031	Cardiovascular		4	Congenital cardiovascular surgery
0000	surgery	2	5	Aortic surgery
			6	Peripheral vascular surgery
			7	Phlebosurgery
		Ц	_	Lymphology
	Respiratory surgery	1	1	Lung surgery
		2	2	Tracheal surgery
8304			3	Mediastinal surgery
	surgery		4	Pleural surgery
			5	Chest wall surgery
		1	1	Neurotrauma
			2	Cerebrovascular disorders
			3	Neuro-endovascular surgery
	1		4	Experimental neurosurgery
				Diagnostic neuroimaging
8305	Neurosurgery		6	Neuro-oncology
			7	Functional neurosurgery
		2	8	Pediatric neurosurgery
			9	Spinal cord/Spinal diseases
			10	Neurosurgical instruments
			11	Stereotactic radiosurgery

(Discipline: Clinical surgery)

Number	(Discipline: Clinical surgery)					
	Research Field	H	1	Screening Sub-panel Number / Keyword		
		1	2	Spinal disorders Muscle/Nerve disorders		
		1		Physical therapy and rehabilitation science		
		_	4	Bone and soft tissue tumors		
			5	Limb reconstruction surgery		
8306	Orthopaedic surgery	2	6	Pediatric orthopaedics		
230			7	Musculoskeletal traumatology		
		T	8	Joint disorders		
			9	Rheumatic diseases		
		3	10	Bone and cartilage metabolism		
			11	Sports medicine		
		1	1	Anesthesiology		
8307	Anesthesiology	_	2	Anesthesiology and Resuscitology		
	i inestinesiology	2	3	Perioperative management		
		1	4	Pain management		
		1	2	Oncology Neurourology and Urodynamics		
			3	Infectious diseases		
		2	4	Regenerative medicine		
8308	Urology	_	5	Regenerative medicine		
2230	2101063		6	Teratology		
		H	7	Adrenal surgery		
		3	8	Kidney transplantation		
		l	9	Andrology		
		1	1	Obstetrics		
	Obstetrics	1	2	Reproductive medicine		
8309	1	2	3	Gynecology		
	gynecology		4	Gynecologic oncology		
			5	Menopause medicine		
		1	1	Otology		
			2	Equilibrium Research		
	Otorhinolaryngology		3	Audiology		
			4	Rhinology		
8310		2	6	Allergology Skull Base Surgery		
		\vdash	7	Stomato-pharyngology		
			_	Laryngology		
		3	9	Broncho-esophagology		
		L		Head and Neck Surgery		
		Г	1	Clinical research		
		1	2	Epidemiology study		
			3	Social medicine		
			4	Ocular biochemistry and molecular biology		
			5	Ocular cell biology		
			6	Ophthalmic genetics		
			7	Ocular histology		
8311	Ophthalmology	L	8	Ocular pathology		
		2	9	Ocular pharmacology		
				Ocular physiology Ocular developmental and regenerative biology		
				Ocular developmental and regenerative biology Ocular immunology		
				Ocular microbiology/Infectious diseases		
				Science orthoptic		
			_	Optics		
		l		Ophthalmic medical engineering		
		H		Pediatric digestive surgery		
	I		2	Fetal surgery		
	D. H. C.			1 ctai surgery		
8312	Pediatric			Pediatric urology		
8312	Pediatric surgery					
8312	Pediatric surgery		3	Pediatric urology		
8312	Pediatric surgery		3	Pediatric urology Pediatric chest surgery Pediatric oncology Reconstructive surgery		
	surgery		3 4 5	Pediatric urology Pediatric chest surgery Pediatric oncology		
	Plastic		3 4 5	Pediatric urology Pediatric chest surgery Pediatric oncology Reconstructive surgery Wound healing science Microsurgery		
	surgery		3 4 5 1 2 3 4	Pediatric urology Pediatric chest surgery Pediatric oncology Reconstructive surgery Wound healing science Microsurgery Tissue culture/Transplantation		
	Plastic		3 4 5 1 2 3 4 5	Pediatric urology Pediatric chest surgery Pediatric oncology Reconstructive surgery Wound healing science Microsurgery Tissue culture/Transplantation Regenerative medicine		
	Plastic		3 4 5 1 2 3 4 5	Pediatric urology Pediatric chest surgery Pediatric oncology Reconstructive surgery Wound healing science Microsurgery Tissue culture/Transplantation Regenerative medicine Intensive care medicine		
8313	Plastic surgery		3 4 5 1 2 3 4 5 1 2	Pediatric urology Pediatric chest surgery Pediatric oncology Reconstructive surgery Wound healing science Microsurgery Tissue culture/Transplantation Regenerative medicine Intensive care medicine Trauma surgery		
8313	Plastic		3 4 5 1 2 3 4 5 1 2 3	Pediatric urology Pediatric chest surgery Pediatric oncology Reconstructive surgery Wound healing science Microsurgery Tissue culture/Transplantation Regenerative medicine Intensive care medicine Trauma surgery Emergency resuscitation science		
8313	Plastic surgery Emergency		3 4 5 1 2 3 4 5 1 2	Pediatric urology Pediatric chest surgery Pediatric oncology Reconstructive surgery Wound healing science Microsurgery Tissue culture/Transplantation Regenerative medicine Intensive care medicine Trauma surgery		

Item	Research Field			Screening Sub-panel Number / Keyword
8401	Morphological basic dentistry		1	Oral anatomy (including histology/embryology)
			2	Oral pathology
			3	Oral bacteriology
	E .: 1		1	Oral physiology
8402	Functional basic dentistry		2	Oral biochemistry
			3	Dental pharmacology
	Pathobiological	Г	1	Experimental oncology
8403	dentistry/		2	Immunity/Infection/Inflammation
8403	Dental		3	General dental radiology
	radiology		4	Oral and maxillofacial diagnostic radiology
8404	Conservative	Г	1	Operative dentistry
8404	dentistry		2	Endodontology
			1	General prosthodontics
	Prosthodontics/		2	Removable denture prosthodontics
	Dental		3	Fixed partial denture prosthodontics
8405	materials		4	Oral and maxillofacial prosthetics
	science and		5	Stomatognathic function
	engineering		6	Dental engineering
			7	Dental materials science
	Dental engineering/ Regenerative dentistry		1	Biomaterials science
8406			2	Regenerative dentistry
			3	Oral implantology
	Surgical dentistry	1	1	Oral and maxillofacial surgery
		2	2	Clinical oncology
8407			3	Dental anesthesiology
		3	4	Laboratory medicine
			5	Oral maxillofacial reconstructive surgery
	Orthodontics/		1	Orthodontics
0.400			2	Pediatric dentistry
0400	Pediatric		3	Pediatric oral health science
	dentistry		4	Stomatognathic function and mechanics
	D : 1 . 1	Г	1	Pathogenesis and diagnosis
0.400			2	Periodontics
8409	Periodontology		3	Periodontal tissue engineering
			4	Preventive periodontology
8410			1	Dental hygiene (including public hygiene/nutrition)
			2	Preventive dentistry
	Social		3	Oral health administration and management
			4	Forensic odontology
	dentistry		5	Gerodontics
			6	Psychosomatic medicine dentistry
			7	Dental education

Discipline: Nursing						
Item Number	Research Field	Screening Sub-panel Number / Keyword				
		1	Nursing philosophy			
	Fundamental	2	Nursing ethics			
		3	Nursing art			
8501		4	Nursing education			
8301	nursing	5	T turbing management			
		6	Nursing policy/Administration			
		7	Disaster nursing			
		8	History of nursing			
	Clinical nursing	1	Critical care/Emergency nursing			
		2	Perioperative nursing			
8502		3	Adult nursing (chronic)			
0302		4	Rehabilitation nursing			
		5	Tarminal care			
		6	oneology narsing			
	Lifelong developmental nursing	1	Turning meaning			
8503		2	Maternal/Women's health nursing			
6303		3	Midwifery			
		4	Child health nursing			
	Gerontological nursing	1	Gerontological nursing			
		2	Psychiatric/Mental health nursing			
8504		3	Home care nursing			
0304		4	Visiting nursing			
		5	Family health nursing			
		6	Rehabilitation nursing			

(Discipline: Nursing)

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	Item Number	Research Field	Screening Sub-panel Number / Keyword		
		Community health nursing		1	Community health nursing
	l .			2	Public health nursing
	l			3	School nursing
				4	Occupational and environmental health nursing