## **ANNEX 1: ERC PEER REVIEW EVALUATION PANELS (ERC PANELS)**

For the planning and operation of the evaluation of ERC grant proposals by panels, the following panel structure applies. There are 25 ERC panels to cover all fields of science, engineering and scholarship assigned to three research domains: Social Sciences and Humanities (6 Panels, SH1–SH6), Physical Sciences and Engineering (10 Panels, PE1–PE10), Life Sciences (9 Panels, LS1–LS9).

The panel names are accompanied by a list of panel descriptors (i.e. ERC keywords) indicating the fields of research covered by the respective ERC panels.

The panel descriptors must always be read in the overall context of the panel's titles and sub-titles.

## **Social Sciences and Humanities**

SH1	Individ	uals, Institutions and Markets: Economics, finance and management
	SH1_1	Macroeconomics
	SH1_2	Development, economic growth
	SH1_3	Microeconomics, behavioural economics
	SH1_4	Marketing
	SH1_5	Political economy, institutional economics, law and economics
	SH1_6	Econometrics, statistical methods
	SH1_7	Financial markets, asset prices, international finance
	SH1_8	Banking, corporate finance, accounting
	SH1_9	Competitiveness, innovation, research and development
	SH1_10	Organization studies: theory & strategy, industrial organization
	SH1_11	Labour economics, income distribution and poverty
	SH1_12	Public economics
	SH1_13	International trade
	SH1_14	History of economic thought and quantitative economic history
SH2	Institut	ions, Values, Beliefs and Behaviour: Sociology, social anthropology,
politic		e, law, communication, social studies of science and technology
	SH2_1	Social structure, inequalities, social mobility, interethnic relations
	SH2_2	Social policies, work and welfare
	SH2_3	Kinship, cultural dimensions of classification and cognition, identity, gender
	SH2_4	Myth, ritual, symbolic representations, religious studies
	SH2_5	Democratization, social movements
	SH2_6	Violence, conflict and conflict resolution
	SH2_7	Political systems and institutions, governance
	SH2_8	Legal studies, constitutions, comparative law, human rights
	SH2_9	Global and transnational governance, international studies
	SH2_10	Communication networks, media, information society
	SH2_11	Social studies of science and technology
SH3		nment, Space and Population: Environmental studies, geography,
demo	• • •	igration, regional and urban studies
	SH3_1	Environment, resources and sustainability
	SH3_2	Environmental change and society
	SH3_3	Environmental regulations and climate negotiations

SH3_4 Social and industrial ecology SH3_6 Population dynamics, aging, health and society SH3_6 Households, family and fertility SH3_7 Migration SH3_8 Mobility, tourism, transportation and logistics SH3_9 Spatial development and architecture, land use, regional planning SH3_10 Urban studies, regional studies SH3_11 Social geography, infrastructure, SH3_12 Geo-information and spatial data analysis SH4_The Human Mind and Its Complexity: Cognitive science, psychology, linguistics, education SH4_1 Evolution of mind and cognitive functions, animal communication SH4_2 Human life-span development SH4_3 Neuropsychology SH4_6 Cognitive and experimental psychology: perception, action, and higher cognitive processes SH4_5 Social and clinical psychology SH4_6 Linguistics: formal, cognitive, functional and computational linguistics SH4_7 Linguistics: typological, historical and comparative linguistics SH4_8 Psycholinguistics and neurolinguistics: acquisition and knowledge of language, language pathologies SH4_9 Use of language: pragmatics, sociolinguistics, discourse analysis, second language teaching and learning, lexicography, terminology SH4_10 Philosophy of mind, epistemology and logic SH4_11 Education: systems and institutions, teaching and learning SH5_1 Classics, ancient Greek and Latin literature and philosophy, visual and performing arts, music, cultural and comparative studies SH5_1 Classics, ancient Greek and Latin literature and art History of literature SH5_1 Visual arts, performing arts, design SH5_6 Philosophy, history of philosophy SH6_6 Philosophy, history of philosophy SH6_1 Cultural teritage, cultural memory SH6_1 Archaeology, archaeometry, landscape archaeology Prehistory and protohistory SH6_1 Archaeology, archaeometry, landscape archaeology Prehistory and protohistory SH6_6 Early modern history SH6_6 Early modern history SH6_6 Colinial and post-colonial history, global and transnational history, entangled histories			
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SH4_9 Use of language: pragmatics, sociolinguistics, discourse analysis, second language teaching and learning, lexicography, terminology  SH4_10 Philosophy of mind, epistemology and logic SH4_11 Education: systems and institutions, teaching and learning  SH5 Cultures and Cultural Production: Literature and philosophy, visual and performing arts, music, cultural and comparative studies  SH5_1 Classics, ancient Greek and Latin literature and art SH5_2 History of literature  SH5_3 Literary theory and comparative literature, literary styles SH5_4 Textual philology, palaeography and epigraphy SH5_5 Visual arts, performing arts, design SH5_6 Philosophy, history of philosophy SH5_7 Museums and exhibitions SH5_8 Music and musicology, history of music SH5_9 History of art and architecture SH5_10 Cultural studies, cultural diversity SH5_11 Cultural heritage, cultural memory  SH6_1 Archaeology, archaeometry, landscape archaeology SH6_2 Prehistory and protohistory SH6_3 Ancient history SH6_4 Medieval history SH6_5 Early modern history SH6_6 Modern and contemporary history, global and transnational history, entangled		SH4_8	Psycholinguistics and neurolinguistics: acquisition and knowledge of language,
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SH5_4 Textual philology, palaeography and epigraphy SH5_5 Visual arts, performing arts, design SH5_6 Philosophy, history of philosophy SH5_7 Museums and exhibitions SH5_8 Music and musicology, history of music SH5_9 History of art and architecture SH5_10 Cultural studies, cultural diversity SH5_11 Cultural heritage, cultural memory  SH6_1 Archaeology, archaeometry, landscape archaeology SH6_2 Prehistory and protohistory SH6_3 Ancient history SH6_4 Medieval history SH6_5 Early modern history SH6_6 Modern and contemporary history, global and transnational history, entangled		SH5_2	History of literature
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SH5_6 Philosophy, history of philosophy SH5_7 Museums and exhibitions SH5_8 Music and musicology, history of music SH5_9 History of art and architecture SH5_10 Cultural studies, cultural diversity SH5_11 Cultural heritage, cultural memory  SH6 The Study of the Human Past: Archaeology, history and memory SH6_1 Archaeology, archaeometry, landscape archaeology SH6_2 Prehistory and protohistory SH6_3 Ancient history SH6_4 Medieval history SH6_5 Early modern history SH6_6 Modern and contemporary history SH6_6 Modern and contemporary history, global and transnational history, entangled		SH5_4	Textual philology, palaeography and epigraphy
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SH6_3 Ancient history SH6_4 Medieval history SH6_5 Early modern history SH6_6 Modern and contemporary history SH6_7 Colonial and post-colonial history, global and transnational history, entangled		SH6_2	
SH6_4 Medieval history SH6_5 Early modern history SH6_6 Modern and contemporary history SH6_7 Colonial and post-colonial history, global and transnational history, entangled			
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SH6_7 Colonial and post-colonial history, global and transnational history, entangled			
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SH6_8	Social and economic history
SH6_9	gender history
SH6_10	History of ideas, intellectual history, history of sciences and techniques
SH6_11	Cultural history, history of collective identities and memories
SH6_12	Historiography, theory and methods of history

## **Physical Sciences and Engineering**

PE1 Ma	athem	natics: All areas of mathematics, pure and applied, plus mathematical		
	foundations of computer science, mathematical physics and statistics			
	1_1	Logic and foundations		
		Algebra		
PE	1_3	Number theory		
PE	1_4	Algebraic and complex geometry		
PE	1_5	Geometry		
PE	1_6	Topology		
PE	1_7	Lie groups, Lie algebras		
PE	1_8	Analysis		
PE	1_9	Operator algebras and functional analysis		
PE	1_10	ODE and dynamical systems		
PE	1_11	Theoretical aspects of partial differential equations		
		Mathematical physics		
		Probability		
		Statistics		
		Discrete mathematics and combinatorics		
		Mathematical aspects of computer science		
		Numerical analysis		
		Scientific computing and data processing		
		Control theory and optimization		
		Application of mathematics in sciences		
PE	1_21	Application of mathematics in industry and society		
		nental Constituents of Matter: Particle, nuclear, plasma, atomic,		
	_	and optical physics		
PE	2_1	Fundamental interactions and fields		
		Particle physics		
		Nuclear physics		
		Nuclear astrophysics		
		Gas and plasma physics		
	2_6	Electromagnetism		
	2_7	Atomic, molecular physics		
	2_8	Ultra-cold atoms and molecules		
	2_9	Optics, non-linear optics and nano-optics		
		Quantum optics and quantum information		
	2_11	Lasers, ultra-short lasers and laser physics		
	2_12	Acoustics		
	2_13	Relativity The arms of the arms in a		
	2_14	Thermodynamics		
PE	2_15	Non-linear physics		

		General physics
		Metrology and measurement
	PE2_18	Statistical physics (gases)
PE3	Conde	nsed Matter Physics: Structure, electronic properties, fluids,
nanos	ciences, l	piophysics
	PE3_1	Structure of solids and liquids
	PE3_2	Mechanical and acoustical properties of condensed matter, Lattice dynamics
	PE3_3	Transport properties of condensed matter
	PE3_4	Electronic properties of materials, surfaces, interfaces, nanostructures
	PE3_5	Semiconductors and insulators: material growth, physical properties
	PE3_6	Macroscopic quantum phenomena: superconductivity, superfluidity
	PE3_7	Spintronics
	PE3_8	Magnetism and strongly correlated systems
	PE3_9	Condensed matter – beam interactions (photons, electrons)
	PE3_10	Nanophysics: nanoelectronics, nanophotonics, nanomagnetism, nanoelectromechanics
	PE3_11	Mesoscopic physics
		Molecular electronics
	PE3_13	Structure and dynamics of disordered systems: soft matter (gels, colloids, liquid crystals), glasses, defects
	PE3_14	Fluid dynamics (physics)
	PE3_15	Statistical physics: phase transitions, noise and fluctuations, models of complex systems
	PE3_16	Physics of biological systems
PE4	Physic	al and Analytical Chemical Sciences: Analytical chemistry, chemical
		chemistry/chemical physics
	PE4_1	Physical chemistry
	PE4_2	Spectroscopic and spectrometric techniques
	PE4_3	Molecular architecture and Structure
	PE4_4	Surface science and nanostructures
	PE4_5	Analytical chemistry
	PE4_6	Chemical physics
	PE4_7	Chemical instrumentation
	PE4_8	Electrochemistry, electrodialysis, microfluidics, sensors
	PE4_9	Method development in chemistry
	PE4_10	Heterogeneous catalysis
	PE4_11	Physical chemistry of biological systems
	PE4_12	Chemical reactions: mechanisms, dynamics, kinetics and catalytic reactions
	PE4_13	Theoretical and computational chemistry
	PE4_14	Radiation and Nuclear chemistry
		Photochemistry
		Corrosion
		Characterization methods of materials
	PE4_18	Environment chemistry
PE5	Synthe	tic Chemistry and Materials: Materials synthesis, structure-properties
relatio	ns, function	onal and advanced materials, molecular architecture, organic chemistry
	PE5_1	Structural properties of materials
	PE5_2	Solid state materials

	PE5_3	Surface modification
	PE5_4	Thin films
	PE5_5	Ionic liquids
	PE5_6	New materials: oxides, alloys, composite, organic-inorganic hybrid, nanoparticles
	PE5 7	Biomaterials synthesis
	PE5_8	Intelligent materials – self assembled materials
	PE5 9	Coordination chemistry
	_	Colloid chemistry
	PE5_11	Biological chemistry
		Chemistry of condensed matter
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		Homogeneous catalysis
		Macromolecular chemistry
		Polymer chemistry
		Supramolecular chemistry
		Organic chemistry
		Molecular chemistry
	PE5_19	Combinatorial chemistry
PE6	Compu	ter Science and Informatics: Informatics and information systems,
compu	iter scien	ce, scientific computing, intelligent systems
	PE6_1	Computer architecture, pervasive computing, ubiquitous computing
	PE6_2	Computer systems, parallel/distributed systems, sensor networks, embedded
		systems, cyber-physical systems
	PE6_3	Software engineering, operating systems, computer languages
	PE6_4	Theoretical computer science, formal methods, and quantum computing
	PE6_5	Cryptology, security, privacy, quantum crypto
	PE6_6	Algorithms, distributed, parallel and network algorithms, algorithmic game
	0_0	theory
	PE6_7	Artificial intelligence, intelligent systems, multi agent systems
	PE6_8	Computer graphics, computer vision, multi media, computer games
	PE6 9	Human computer interaction and interface, visualization and natural language
	F LO_9	processing
	DE6 10	
	PE6_10	Web and information systems, database systems, information retrieval and digital
	DEC 44	libraries, data fusion
	PE6_11	Machine learning, statistical data processing and applications using signal
	DE0 40	processing (e.g. speech, image, video)
		Scientific computing, simulation and modelling tools
	PE6_13	Bioinformatics, biocomputing, and DNA and molecular computation
PE7		ns and Communication Engineering: Electronic, communication, optical
and sy	stems en	gineering
	PE7_1	Control engineering
	PE7_2	Electrical and electronic engineering: semiconductors, components, systems
	PE7_3	Simulation engineering and modelling
	PE7_4	Systems engineering, sensorics, actorics, automation
	PE7_5	Micro- and nanoelectronics, optoelectronics
	PE7_6	Communication technology, high-frequency technology
	PE7_7	Signal processing
	PE7_8	Networks (communication networks, sensor networks, networks of robots)
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PE7_9	Man-machine-interfaces
PE7_10	Robotics
	cts and Processes Engineering: Product design, process design and
control, constru	action methods, civil engineering, energy systems, material engineering
PE8_2	Aerospace engineering Chemical engineering, technical chemistry
PE8_3	Civil engineering, maritime/hydraulic engineering, geotechnics, waste treatment
PE8_4	Computational engineering
PE8_5	Fluid mechanics, hydraulic-, turbo-, and piston engines
PE8_6	Energy systems (production, distribution, application)
PE8_7	Micro (system) engineering
PE8_8	Mechanical and manufacturing engineering (shaping, mounting, joining, separation)
PE8_9	Materials engineering (biomaterials, metals, ceramics, polymers, composites)
PE8_10	Production technology, process engineering
PE8_11	Industrial design (product design, ergonomics, man-machine interfaces)  Sustainable design (for recycling, for environment, eco-design)
PE8_13	3 ( )
	Industrial bioengineering
PE8_15	
PE8_16	Architectural engineering
PE9 Univer	se Sciences: Astro-physics/chemistry/biology; solar system; stellar, galactic
and extragalact	tic astronomy, planetary systems, cosmology, space science, instrumentation
PE9_1	Solar and interplanetary physics
PE9_2	Planetary systems sciences
PE9_3 PE9_4	Interstellar medium Formation of stars and planets
PE9_5	Astrobiology
PE9_6	Stars and stellar systems
PE9_7	The Galaxy
PE9_8	Formation and evolution of galaxies
PE9_9	Clusters of galaxies and large scale structures
PE9_10	High energy and particles astronomy – X-rays, cosmic rays, gamma rays, neutrinos
PE9_11 PE9_12	Relativistic astrophysics
PE9_12 PE9_13	•
_	Cosmology
	Space Sciences
	Very large data bases: archiving, handling and analysis
PE9_17	Instrumentation - telescopes, detectors and techniques
	System Science: Physical geography, geology, geophysics, atmospheric
	nography, climatology, ecology, global environmental change, biogeochemical
	resources management  Atmospheric chemistry, atmospheric composition, air pollution
PE10_1 PE10_2	Atmospheric chemistry, atmospheric composition, air pollution  Meteorology, atmospheric physics and dynamics
	Climatology and climate change
	Terrestrial ecology, land cover change
	Geology, tectonics, volcanology

PE10_6	Paleoclimatology, paleoecology
PE10_7	Physics of earth's interior, seismology, volcanology
PE10_8	Oceanography (physical, chemical, biological, geological)
PE10_9	Biogeochemistry, biogeochemical cycles, environmental chemistry
PE10_10	Mineralogy, petrology, igneous petrology, metamorphic petrology
PE10_11	Geochemistry, crystal chemistry, isotope geochemistry, thermodynamics
PE10_12	Sedimentology, soil science, palaeontology, earth evolution
PE10_13	Physical geography
PE10_14	Earth observations from space/remote sensing
PE10_15	Geomagnetism, paleomagnetism
PE10_16	Ozone, upper atmosphere, ionosphere
PE10_17	Hydrology, water and soil pollution
PE10_18	Cryosphere, dynamics of snow and ice cover, sea ice, permafrosts and ice sheets

## Life Sciences

LS1		ılar and Structural Biology and Biochemistry: Molecular synthesis,
		d interaction, biochemistry, biophysics, structural biology, metabolism, signal
transc	luction	
	LS1_1	Molecular interactions
	LS1_2	General biochemistry and metabolism
	LS1_3	DNA synthesis, modification, repair, recombination and degradation
	LS1_4	RNA synthesis, processing, modification and degradation
	LS1_5	Protein synthesis, modification and turnover
	LS1_6	Lipid synthesis, modification and turnover
	LS1_7	Carbohydrate synthesis, modification and turnover
	LS1_8	Biophysics (e.g. transport mechanisms, bioenergetics, fluorescence)
	LS1_9	Structural biology (crystallography and EM)
	LS1_10	Structural biology (NMR)
	LS1_11	Biochemistry and molecular mechanisms of signal transduction
comp	ation gene	cs, Genomics, Bioinformatics and Systems Biology: Molecular and etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology, iology
popula	ation gene utational b	etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology,
popula	ation gene utational b ic epidem	etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology, iology
popula	ation generational kice epidem	etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology, iology  Genomics, comparative genomics, functional genomics
popula	ation generational bits a contraction of the contra	etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology, iology  Genomics, comparative genomics, functional genomics  Transcriptomics
popula	ation generational bic epidem  LS2_1  LS2_2  LS2_3	etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology, iology  Genomics, comparative genomics, functional genomics  Transcriptomics  Proteomics
popula	ation gene utational k ic epidem LS2_1 LS2_2 LS2_3 LS2_4	etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology, iology  Genomics, comparative genomics, functional genomics  Transcriptomics  Proteomics  Metabolomics
popula	ation generational kic epidem LS2_1 LS2_2 LS2_3 LS2_4 LS2_5	etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology, iology  Genomics, comparative genomics, functional genomics  Transcriptomics  Proteomics  Metabolomics  Glycomics
popula	ation generational kic epidem LS2_1 LS2_2 LS2_3 LS2_4 LS2_5 LS2_6	etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology, iology  Genomics, comparative genomics, functional genomics  Transcriptomics  Proteomics  Metabolomics  Glycomics  Molecular genetics, reverse genetics and RNAi
popula	ation generational bic epidem LS2_1 LS2_2 LS2_3 LS2_4 LS2_5 LS2_6 LS2_7	etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology, iology  Genomics, comparative genomics, functional genomics  Transcriptomics  Proteomics  Metabolomics  Glycomics  Molecular genetics, reverse genetics and RNAi  Quantitative genetics
popula	ation generational kic epidem LS2_1 LS2_2 LS2_3 LS2_4 LS2_5 LS2_6 LS2_7 LS2_8	etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology, iology  Genomics, comparative genomics, functional genomics  Transcriptomics  Proteomics  Metabolomics  Glycomics  Molecular genetics, reverse genetics and RNAi  Quantitative genetics  Epigenetics and gene regulation
popula	ation generational kic epidem LS2_1 LS2_2 LS2_3 LS2_4 LS2_5 LS2_6 LS2_7 LS2_8 LS2_9	etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology, iology  Genomics, comparative genomics, functional genomics  Transcriptomics  Proteomics  Metabolomics  Glycomics  Molecular genetics, reverse genetics and RNAi  Quantitative genetics  Epigenetics and gene regulation  Genetic epidemiology
popula	ation generational kic epidem LS2_1 LS2_2 LS2_3 LS2_4 LS2_5 LS2_6 LS2_7 LS2_8 LS2_9 LS2_10	etics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, biology, biostatistics, biological modelling and simulation, systems biology, iology  Genomics, comparative genomics, functional genomics  Transcriptomics  Proteomics  Metabolomics  Glycomics  Molecular genetics, reverse genetics and RNAi  Quantitative genetics  Epigenetics and gene regulation  Genetic epidemiology  Bioinformatics

	LS2_14	Biological systems analysis, modelling and simulation
LS3		<u>r and Developmental Biology:</u> Cell biology, cell physiology, signal ganogenesis, developmental genetics, pattern formation in plants and
	ıls, stem o	ell biology
	LS3_1	Morphology and functional imaging of cells
	LS3_2	Cell biology and molecular transport mechanisms
	LS3_3	Cell cycle and division
	LS3_4	Apoptosis
	LS3_5	Cell differentiation, physiology and dynamics
	LS3_6	Organelle biology
	LS3_7	Cell signalling and cellular interactions
	LS3_8	Signal transduction
	LS3_9	Development, developmental genetics, pattern formation and embryology in
	1.00.40	animals
	LS3_10	Development, developmental genetics, pattern formation and embryology in plants
	LS3_11	Cell genetics
		Stem cell biology
LS4	-	logy, Pathophysiology and Endocrinology: Organ physiology,
		y, endocrinology, metabolism, ageing, tumorigenesis, cardiovascular disease,
metab	olic syndr	
	LS4_1	Organ physiology and pathophysiology
	LS4_2	Comparative physiology and pathophysiology
	LS4_3	Endocrinology
	LS4_4	Ageing  Metabolism biological basis of matabolism related disorders
	LS4_5	Metabolism, biological basis of metabolism related disorders  Cancer and its biological basis
	LS4_6 LS4_7	Cardiovascular diseases
	LS4_7 LS4_8	Non-communicable diseases (except for neural/psychiatric, immunity-related,
	L34_0	metabolism-related disorders, cancer and cardiovascular diseases)
		· · · · · · · · · · · · · · · · · · ·
<u>LS5</u>		sciences and Neural Disorders: Neurobiology, neuroanatomy,
		y, neurochemistry, neuropharmacology, neuroimaging, systems neurological and psychiatric disorders
Heuro	LS5_1	Neuroanatomy and neurophysiology
	LS5_1 LS5_2	Molecular and cellular neuroscience
	LS5_2 LS5_3	Neurochemistry and neuropharmacology
	LS5_3 LS5_4	Sensory systems (e.g. visual system, auditory system)
	LS5_5	Mechanisms of pain
	LS5_5 LS5_6	Developmental neurobiology
	LS5_0 LS5_7	Cognition (e.g. learning, memory, emotions, speech)
	LS5_7 LS5_8	Behavioural neuroscience (e.g. sleep, consciousness, handedness)
	LS5_6 LS5_9	Systems neuroscience
	LS5_9 LS5_10	Neuroimaging and computational neuroscience
	LS5_10 LS5_11	Neurological disorders (e.g. Alzheimer's disease, Huntington's disease, Parkinson's
	L00_11	disease)
	LS5_12	Psychiatric disorders (e.g. schizophrenia, autism, Tourette's syndrome, obsessive
	LUU_1Z	compulsive disorder, depression, bipolar disorder, attention deficit hyperactivity
		compaisive disorder, depression, sipolar disorder, attention deficit hyperactivity

		disorder)
LS6	Immun	ity and Infection: The immune system and related disorders, infectious
agents		eases, prevention and treatment of infection
	LS6_1	Innate immunity and inflammation
	LS6_2	Adaptive immunity
	LS6_3	Phagocytosis and cellular immunity
	LS6_4	Immunosignalling
	LS6_5	Immunological memory and tolerance
	LS6_6	Immunogenetics
	LS6_7	Microbiology
	LS6_8	Virology
	LS6_9	Bacteriology
	LS6_10	Parasitology
	LS6_11	Prevention and treatment of infection by pathogens (e.g. vaccination, antibiotics,
		fungicide)
	LS6_12	Biological basis of immunity related disorders (e.g. autoimmunity)
	LS6_13	Veterinary medicine and infectious diseases in animals
LS7	Diagno	stic Tools, Therapies and Public Health: Aetiology, diagnosis and
		ease, public health, epidemiology, pharmacology, clinical medicine,
		edicine, medical ethics
	LS7_1	Medical engineering and technology
	LS7_2	Diagnostic tools (e.g. genetic, imaging)
	LS7_3	Pharmacology, pharmacogenomics, drug discovery and design, drug therapy
	LS7_4	Analgesia and Surgery
	LS7_5	Toxicology
	LS7_6	Gene therapy, cell therapy, regenerative medicine
	LS7_7	Radiation therapy
	LS7_8	Health services, health care research
	LS7_9	Public health and epidemiology
	LS7_10	Environment and health risks, occupational medicine
	LS7_11	Medical ethics
LS8	Evoluti	onary, Population and Environmental Biology: Evolution, ecology,
	l behavio	ur, population biology, biodiversity, biogeography, marine biology, eco- obial ecology
	LS8_1	Ecology (theoretical and experimental; population, species and community level)
	LS8_2	Population biology, population dynamics, population genetics
	LS8_3	Systems evolution, biological adaptation, phylogenetics, systematics, comparative biology
	LS8_4	Biodiversity, conservation biology, conservation genetics, invasion biology
	LS8_5	Evolutionary biology: evolutionary ecology and genetics, co-evolution
	LS8_6	Biogeography, macro-ecology
	LS8_7	Animal behaviour
	LS8_8	Environmental and marine biology
	LS8_9	Environmental toxicology at the population and ecosystems level
	LS8_10	Microbial ecology and evolution
	LS8_11	Species interactions (e.g. food-webs, symbiosis, parasitism, mutualism)

LS9 Applied	d life Sciences and Non-Medical Biotechnology: Agricultural, animal,		
fishery, forestry	fishery, forestry and food sciences; biotechnology, genetic engineering, synthetic and chemical biology, industrial biosciences; environmental biotechnology and remediation		
LS9_1	Applied genetic engineering, transgenic organisms, recombinant proteins, biosensors		
LS9_2	Synthetic biology, chemical biology and new bio-engineering concepts		
LS9_3	Agriculture related to animal husbandry, dairying, livestock raising		
LS9_4	Aquaculture, fisheries		
LS9_5	Agriculture related to crop production, soil biology and cultivation, applied plant biology		
LS9_6	Food sciences		
LS9_7	Forestry, biomass production (e.g. for biofuels)		
LS9_8	Environmental biotechnology, bioremediation, biodegradation		
LS9_9	Applied biotechnology (non-medical), bioreactors, applied microbiology		
LS9_10	Biomimetics		
LS9_11	Biohazards, biological containment, biosafety, biosecurity		