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: Physical Sciences and Engineering (10 Panels, PE1–PE10), Life Sciences (9 Panels, LS1–LS9) and Social Sciences and Humanities (6 Panels, SH1–SH6).

The panel names are accompanied by a list of ERC keywords indicating the fields of research covered by the respective ERC panels.

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

Social Sciences and Humanities

SH1	Individu	als, Markets and Organisations: Economics, finance and management
	SH1_1	Macroeconomics; monetary economics; economic growth
	SH1_2	International trade; international business; international management; spatial economics
	SH1_3	Financial economics; monetary economics
	SH1_4	Financial economics; banking; corporate finance; international finance; accounting; auditing; insurance
	SH1_5	Labour and demographic economics; human resource management
	SH1_6	Econometrics; operations research
	SH1_7	Behavioural economics; experimental economics; neuro-economics
	SH1_8	Microeconomics; game theory
	SH1_9	Industrial organisation; strategy; entrepreneurship
	SH1_10	Management; marketing; organisational behaviour; operations management
	SH1_11	Technological change, innovation, research & development
	SH1_12	Agricultural economics; energy economics; environmental economics
	SH1_13	Public economics; political economics; law and economics
	SH1_14	Quantitative economic history; institutional economics; economic systems
<u>SH2</u>	Instituti	ons, Values, Environment and Space: Political science, law, sustainability
scienc	e, geogra	phy, regional studies and planning
	SH2_1	Political systems, governance
	SH2_2	Democratisation and social movements
	SH2_3	Conflict resolution, war
	SH2_4	Legal studies, constitutions, human rights, comparative law
	SH2_5	International relations, global and transnational governance
	SH2_6	Sustainability sciences, environment and resources
	SH2_7	Environmental and climate change, societal impact and policy
	SH2_8	Energy, transportation and mobility
	SH2_9	Urban, regional and rural studies
	SH2_10	Land use and regional planning
	SH2_11	Human, economic and social geography
	SH2_12	GIS, spatial analysis; big data in political, geographical and legal studies
<u>SH3</u>		ial World, Diversity, Population: Sociology, social psychology, demography,
eauca	•	munication
	SH3_1	Social structure, social mobility
	SH3_2	Inequalities, discrimination, prejudice, aggression and violence, antisocial behaviour
	SH3_3	Social integration, exclusion, prosocial behaviour

SH3 SH3 SH3 SH3 SH4 The philosophy SH4	3_5 So 3_6 D 3_7 So 3_8 Po 3_9 H 3_10 So 3_11 Co 3_12 D 3_13 So e Huma y of min 4_1 Co 4_2 Po 4_3 Cl 4_4 N 4_5 A	ognitive basis of human development and education, developmental disorders; omparative cognition ersonality and social cognition; emotion linical and health psychology europsychology ttention, perception, action, consciousness earning, memory; cognition in ageing
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SH4 SH4 SH4 SH4 SH4 SH4 SH4 SH4	1_5 A [.] 1_6 Le	earning, memory; cognition in ageing
SH4 SH4 SH4 SH4 SH4 SH4 SH4 SH5 Cul	4_6 Le	earning, memory; cognition in ageing
SH4 SH4 SH4 SH4 SH4 SH5 Cul anthropolo	17 D.	
SH4 SH4 SH4 SH4 SH5 Cul anthropolo	+_/ K	easoning, decision-making; intelligence
SH4 SH4 SH4 SH4 SH5 Cul anthropolo	4_8 La	anguage learning and processing (first and second languages)
SH4 SH4 SH4 SH5 Cul anthropolo	4_9 TI	heoretical linguistics; computational linguistics
SH4 SH4 SH5 Cul anthropolo	4_10 La	anguage typology
SH4 SH5 Cul anthropolo	4_11 Pi	ragmatics, sociolinguistics, discourse analysis
SH5 Cul	4_12 PI	hilosophy of mind, philosophy of language
anthropolo	4_13 PI	hilosophy of science, epistemology, logic
•	ltures	and Cultural Production: Literature, philology, cultural studies,
CHE	ogy, stu	dy of the arts, philosophy
303	5_1 Cl	lassics, ancient literature and art
SH5	5_2 Tl	heory and history of literature, comparative literature
SH5	5_3 PI	hilology and palaeography; historical linguistics
SH5	5_4 Vi	isual and performing arts, film, design
SH5	5_5 M	1usic and musicology; history of music
SH5	5_6 H	istory of art and architecture, arts-based research
SH5	5_7 N	fuseums, exhibitions, conservation and restoration
SH5	5_8 C	ultural studies, cultural identities and memories, cultural heritage
SH5	5_9 So	ocial anthropology, religious studies, symbolic representation
SH5	5_10 M	Metaphysics, philosophical anthropology; aesthetics
SH5	5_11 Et	thics; social and political philosophy
SH5	5_12 H	istory of philosophy
SH5	5_13 C	omputational Modelling and Digitisation in the Cultural Sphere
SH6 The	e Study	of the Human Past: Archaeology and history
SH6	6_1 H	istoriography, Theory and methods in history, including the analysis of digital data
SH6	6_2 CI	lassical archaeology, history of archaeology
SH5 SH5 SH6 The	5_12 H 5_13 Co <u>e Study</u> 5_1 H	istory of philosophy omputational Modelling and Digitisation in the Cultural Sphere of the Human Past: Archaeology and history istoriography, Theory and methods in history, including the analysis of digital data

SH6_3	General archaeology, archaeometry, landscape archaeology
SH6_4	Prehistory, palaeoanthropology, palaeodemography, protohistory
SH6_5	Ancient history
SH6_6	Medieval history
SH6_7	Early modern history
SH6_8	Modern and contemporary history
SH6_9	Colonial and post-colonial history
SH6_10	Global history, transnational history, comparative history, entangled histories
SH6_11	Social and economic history
SH6_12	Gender history; Cultural History; History of Collective Identities and Memories
SH6_13	History of Ideas, Intellectual History, history of economic thought
SH6_14	History of Science, Medicine and Technologies

Physical Sciences and Engineering

PE1	Mathen	natics: All areas of mathematics, pure and applied, plus mathematical foundations	
of com	mputer science, mathematical physics and statistics		
	PE1_1	Logic and foundations	
	PE1_2	Algebra	
	PE1_3	Number theory	
	PE1_4	Algebraic and complex geometry	
	PE1_5	Geometry	
	PE1_6	Topology	
	PE1_7	Lie groups, Lie algebras	
	PE1_8	Analysis	
	PE1_9	Operator algebras and functional analysis	
	PE1_10	ODE and dynamical systems	
	PE1_11	Theoretical aspects of partial differential equations	
	PE1_12	Mathematical physics	
	PE1_13	Probability	
	PE1_14	Statistics	
	PE1_15	Discrete mathematics and combinatorics	
	PE1_16	Mathematical aspects of computer science	
	PE1_17	Numerical analysis	
	PE1_18	Scientific computing and data processing	
	PE1_19	Control theory and optimisation	
	PE1_20	Application of mathematics in sciences	
	PE1_21	Application of mathematics in industry and society	
PE2	Fundam	nental Constituents of Matter: Particle, nuclear, plasma, atomic, molecular, gas,	
and op	optical physics		
	PE2_1	Fundamental interactions and fields	
	PE2_2	Particle physics	
	PE2_3	Nuclear physics	
	PE2_4	Nuclear astrophysics	
	PE2_5	Gas and plasma physics	

	PE2_6	Electromagnetism
	PE2_7	Atomic, molecular physics
	PE2_8	Ultra-cold atoms and molecules
	PE2_9	Optics, non-linear optics and nano-optics
	PE2_10	Quantum optics and quantum information
	PE2_11	Lasers, ultra-short lasers and laser physics
	PE2_12	Acoustics
	PE2_13	Relativity
	PE2_14	Thermodynamics
	PE2_15	Non-linear physics
	PE2_16	General physics
	PE2_17	Metrology and measurement
	PE2_18	Statistical physics (gases)
PE3	Conden	sed Matter Physics: Structure, electronic properties, fluids, nanosciences,
biophy		
	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, etc.
	PE3_5	Semiconductors and insulators: material growth, physical properties
	PE3_6	Macroscopic quantum phenomena: superconductivity, superfluidity, etc.
	PE3_7	Spintronics
	PE3_8	Magnetism and strongly correlated systems
	PE3_9	Condensed matter – beam interactions (photons, electrons, etc.)
	PE3_10	Nanophysics: nanoelectronics, nanophotonics, nanomagnetism, nanoelectromechanics, etc.
	PE3_11	Mesoscopic physics
	PE3_12	Molecular electronics
	PE3_13	Structure and dynamics of disordered systems: soft matter (gels, colloids, liquid crystals, etc.), glasses, defects, etc.
	PE3_14	Fluid dynamics (physics)
	PE3_15	Statistical physics: phase transitions, noise and fluctuations, models of complex systems, etc.
	PE3_16	Physics of biological systems
PE4	Physical	and Analytical Chemical Sciences: Analytical chemistry, chemical theory,
physic		ry/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
	PE4_15	Photochemistry
	PE4_16	Corrosion
	PE4_17	Characterisation methods of materials
	PE4_18	Environment chemistry
PE5		c Chemistry and Materials: Materials synthesis, structure-properties relations, vanced 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, biomaterials synthesis
	PE5_8	Intelligent materials – self assembled materials
	PE5_9	Coordination chemistry
	PE5_10	Colloid chemistry
	PE5_11	Biological chemistry
	PE5_12	Chemistry of condensed matter
	PE5_13	Homogeneous catalysis
	PE5_14	Macromolecular chemistry
	PE5_15	Polymer chemistry
	PE5 16	Supramolecular chemistry
	PE5_17	Organic chemistry
	PE5_18	Molecular chemistry
	PE5 19	Combinatorial chemistry
DEC	_	·
PE6 science		er Science and Informatics: Informatics and information systems, computer 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
	_	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, visualisation and natural language
	_	processing
	PE6_10	Web and information systems, database systems, information retrieval and digital
	_	libraries, data fusion

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	PE6_11	Machine learning, statistical data processing and applications using signal
		processing (e.g. speech, image, video)
	PE6_12	Scientific computing, simulation and modelling tools
	PE6_13	Bioinformatics, biocomputing, and DNA and molecular computation
<u>PE7</u>		s and Communication Engineering: Electrical, electronic, communication, optical
and sy	stems engi	_
	PE7_1	Control engineering
	PE7_2	Electrical engineering: power components and/or systems
	PE7_3	Simulation engineering and modelling
	PE7_4	(Micro and nano) systems engineering
	PE7_5	(Micro and nano) electronic, optoelectronic and photonic components
	PE7_6	Communication technology, high-frequency technology
	PE7_7	Signal processing
	PE7_8	Networks (communication networks, sensor networks, networks of robots, etc.)
	PE7_9	Man-machine-interfaces
	PE7_10	Robotics
	PE7_11	Components and systems for applications (in e.g. medicine, biology, environment)
	PE7_12	Electrical energy production, distribution, application
PE8	Product	s and Processes Engineering: Product design, process design and control,
constr	uction met	thods, civil engineering, energy processes, material engineering
	PE8_1	Aerospace engineering
	PE8_2	Chemical engineering, technical chemistry
	PE8_3	Civil engineering, architecture, maritime/hydraulic engineering, geotechnics, waste
		treatment
	PE8_4	Computational engineering
	PE8_5	Fluid mechanics, hydraulic-, turbo-, and piston engines
	PE8_6	Energy processes engineering
	PE8_7	Mechanical and manufacturing engineering (shaping, mounting, joining, separation)
	PE8_8	Materials engineering (metals, ceramics, polymers, composites, etc.)
	PE8_9	Production technology, process engineering
	PE8_10	Industrial design (product design, ergonomics, man-machine interfaces, etc.)
	PE8_11	Sustainable design (for recycling, for environment, eco-design)
	PE8_12	Lightweight construction, textile technology
	PE8_13	Industrial bioengineering
PE9	Universe	e Sciences: Astro-physics/chemistry/biology; solar system; stellar, galactic and
		onomy, planetary systems, cosmology, space science, instrumentation
	PE9_1	Solar and interplanetary physics
	PE9_2	Planetary systems sciences
	PE9_3	Interstellar medium
	_ PE9_4	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
		Granters of Baranies and large scale structures

P	E9_10	High energy and particles astronomy – X-rays, cosmic rays, gamma rays, neutrinos
Р	E9_11	Relativistic astrophysics
Р	E9_12	Dark matter, dark energy
P	E9_13	Gravitational astronomy
Р	E9_14	Cosmology
Р	E9_15	Space Sciences
P	E9_16	Very large data bases: archiving, handling and analysis
P	E9_17	Instrumentation - telescopes, detectors and techniques
PE10 E	arth Sy	ystem Science: Physical geography, geology, geophysics, atmospheric sciences,
		imatology, cryology, ecology, global environmental change, biogeochemical cycles,
natural re	esources	management
P	PE10_1	Atmospheric chemistry, atmospheric composition, air pollution
P	PE10_2	Meteorology, atmospheric physics and dynamics
P	E10_3	Climatology and climate change
P	PE10_4	Terrestrial ecology, land cover change
P	E10_5	Geology, tectonics, volcanology
P	E10_6	Palaeoclimatology, palaeoecology
P	PE10_7	Physics of earth's interior, seismology, volcanology
P	E10_8	Oceanography (physical, chemical, biological, geological)
P	E10_9	Biogeochemistry, biogeochemical cycles, environmental chemistry
Р	E10_10	Mineralogy, petrology, igneous petrology, metamorphic petrology
P	E10_11	Geochemistry, crystal chemistry, isotope geochemistry, thermodynamics
Р	E10_12	Sedimentology, soil science, palaeontology, earth evolution
Р	E10_13	Physical geography
Р	E10_14	Earth observations from space/remote sensing
P	E10_15	Geomagnetism, palaeomagnetism
Р	E10_16	Ozone, upper atmosphere, ionosphere
P	E10_17	Hydrology, water and soil pollution
P	E10_18	Cryosphere, dynamics of snow and ice cover, sea ice, permafrosts and ice sheets

Life Sciences

LS1 Molecular and Structural Biology and Biochemistry: Molecular synthesis, modification			
and interaction, I	biochemistry, biophysics, structural biology, metabolism, signal transduction		
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

LS2 G	enetics	, Genomics, Bioinformatics and Systems Biology: Molecular and population
		ics, transcriptomics, proteomics, metabolomics, bioinformatics, computational
_	_	cics, biological modelling and simulation, systems biology, genetic epidemiology
	52_1	Genomics, comparative genomics, functional genomics
	_ 52_2	Transcriptomics
	_ 52_3	Proteomics
	- 52_4	Metabolomics
	- 52_5	Glycomics
LS	52_6	Molecular genetics, reverse genetics and RNAi
LS	52_7	Quantitative genetics
LS	52_8	Epigenetics and gene regulation
LS	52_9	Genetic epidemiology
LS	52_10	Bioinformatics
LS	52_11	Computational biology
LS	52_12	Biostatistics
LS	52_13	Systems biology
LS	52_14	Biological systems analysis, modelling and simulation
LS3 Ce	ellular	and Developmental Biology: Cell biology, cell physiology, signal transduction,
		evelopmental genetics, pattern formation in plants and animals, stem cell biology
LS	3_1	Morphology and functional imaging of cells
LS	3_2	Cell biology and molecular transport mechanisms
LS	3_3	Cell cycle and division
LS	53_4	Apoptosis
LS	53_5	Cell differentiation, physiology and dynamics
LS	63_6	Organelle biology
LS	3_7	Cell signalling and cellular interactions
LS	3_8	Signal transduction
LS	53_9	Development, developmental genetics, pattern formation and embryology in
		animals
LS	3_10	Development, developmental genetics, pattern formation and embryology in plants
LS	3_11	Cell genetics
LS	3_12	Stem cell biology
LS4 PI	hysiolo	gy, Pathophysiology and Endocrinology: Organ physiology, pathophysiology,
endocrino	ology, m	etabolism, ageing, tumorigenesis, cardiovascular disease, metabolic syndrome
LS	64_1	Organ physiology and pathophysiology
LS	64_2	Comparative physiology and pathophysiology
LS	64_3	Endocrinology
LS	54_4	Ageing
LS	54_5	Metabolism, biological basis of metabolism related disorders
LS	64_6	Cancer and its biological basis
LS	54_7	Cardiovascular diseases
LS	64_8	Non-communicable diseases (except for neural/psychiatric, immunity-related,
		metabolism-related disorders, cancer and cardiovascular diseases)

LS5 Neuro	sciences and Neural Disorders: Neurobiology, neuroanatomy, neurophysiology,
	y, neuropharmacology, neuroimaging, systems neuroscience, neurological and
psychiatric disc	
LS5 1	Neuroanatomy and neurophysiology
_ LS5_2	Molecular and cellular neuroscience
_ LS5_3	Neurochemistry and neuropharmacology
_ LS5_4	Sensory systems (e.g. visual system, auditory system)
_ LS5_5	Mechanisms of pain
_ LS5_6	Developmental neurobiology
_ LS5_7	Cognition (e.g. learning, memory, emotions, speech)
_ LS5_8	Behavioural neuroscience (e.g. sleep, consciousness, handedness)
_ LS5_9	Systems neuroscience
_ LS5_10	
_ LS5_11	
_	disease)
LS5_12	Psychiatric disorders (e.g. schizophrenia, autism, Tourette's syndrome, obsessive
	compulsive disorder, depression, bipolar disorder, attention deficit hyperactivity
	disorder)
LS6 Immu	nity and Infection: The immune system and related disorders, infectious agents and
diseases, preve	ention 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 Diagn	ostic Tools, Therapies and Public Health: Aetiology, diagnosis and treatment of
disease, publi	c health, epidemiology, pharmacology, clinical medicine, regenerative medicine,
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	Evolutio	onary, Population and Environmental Biology: Evolution, ecology, animal
behavi	our, popu	lation biology, biodiversity, biogeography, marine biology, ecotoxicology, microbial
ecolog	У	
	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	Life Sciences and Non-Medical Biotechnology: Applied plant and animal
science	es; food	sciences; forestry; industrial, environmental and non-medical biotechnologies,
bioeng	gineering; s	synthetic and chemical biology; biomimetics; bioremediation
	LS9_1	Non-medical biotechnology and genetic engineering (including
		transgenic organisms, recombinant proteins, biosensors, bioreactors, microbiology)
	LS9_2	Synthetic biology, chemical biology and bio-engineering
	LS9_3	Animal sciences (including animal husbandry, aquaculture, fisheries,
		animal welfare)
	LS9_4	Plant sciences (including crop production, plant breeding, agroecology, soil biology)
	LS9_5	Food sciences (including food technology, nutrition)
	LS9_6	Forestry and biomass production (including biofuels)
	LS9_7	Environmental biotechnology (including bioremediation, biodegradation)
	LS9_8	Biomimetics
	LS9_9	Biohazards (including biological containment, biosafety, biosecurity)