Panels of the National Science Centre

The Council of the National Science Centre has adopted 25 review panels (disciplines or groups of disciplines) for the purposes of qualifying and evaluating research projects, covering the entire research area in three major research fields: Arts, Humanities and Social Sciences (6 panels, HS1–HS6), Physical Sciences and Engineering (10 panels, ST1–ST10), Life Sciences (9 panels, NZ1–NZ9).

The panel names have been supported with auxiliary review panel names (HSi_j, STi_j and NZi_j) identifying research domains falling within particular NCN review panels, which should only be used with regard to the panel names and their subheadings.

Arts, Humanities and Social Sciences

HS1 - Fundamental questions of human existence and the nature of reality

HS1_001	History of philosophy (ancient, medieval, modern and contemporary) and history of ideas
HS1_002	Ontology and metaphysics, particular ontologies
HS1_003	Epistemology (incl. sources of knowledge, criteria of truth, philosophy of language)
HS1_004	Logic, science methodology, philosophy of science
HS1_005	Philosophy of human, theories of personality, philosophy of culture, social philosophy
HS1_006	Nature of human mind (incl. mind's evolution, bio-psychological conditions of cognition, artificial intelligence)
HS1_007	Ethics: normative and descriptive, theory of morality, bioethics, professional ethics
HS1_008	Aesthetics (incl. theory of beauty, language of art)
HS1_009	Theory of religion, history of religion, religious studies
HS1_010	Religion and its background: anthropological, cultural, social and psychological
HS1_011	Language of religion, sacrum, myth, religious symbolism
HS1_012	World religions
HS1_013	Fundamental theology
HS1_014	Dogmatic theology, biblical theology, patristics
HS1_015	Moral theology, pastoral theology, liturgics
HS1_016	Other related subjects

HS2 - Culture and cultural production

HS2_001	History of literature (including: ancient, modern, contemporary; national and world literature), literary criticism and interpretation
HS2_002	Theory of literature, history of literary studies, methodology and trends in literary and cultural studies, anthropology of literature, comparative literature, literary and cultural translatology
HS2_003	Editorial and philological studies, lexical and encyclopedic studies, documentation and bibliographical studies
HS2_004	Bibliology and theory of information
HS2_005	History of language and dialectology, modern language research and discourse analysis, textology, linguistic translatology
HS2_006	General linguistics, theory and methodology of linguistic research
HS2_007	Communication studies, theory of applied linguistics
HS2_008	History and theory of art, visual arts, visual culture
HS2_009	Conservation and restoration

HS2_010	Museums and exhibitions
HS2_011	Music and musicology, history of music
HS2_012	Performing arts
HS2_013	Film and audiovisual media
HS2_014	Cultural studies (including: contemporary cultural studies and cultural-anthropological studies)
HS2_015	Other related subjects

HS3 - The study of the human past

HS3_001	Early history (ancient, medieval, early modern history), modern and contemporary history (19th - 20th c.)
HS3_002	Social history
HS3_003	Political history (incl. political systems)
HS3_004	Economic history
HS3_005	Cultural history (incl. historical memory, history of material culture, historical cultural studies, cultural diversity)
HS3_006	Historiography, theory and methods of history
HS3_007	Archival science
HS3_008	Archaeology (incl. archaeology of Greece and Rome, archaeology of Egypt and Nubia, archaeology of Near East, archeology of the New World, pre- and protohistorical archaeology, archaeology of early medieval period, medieval archeology, archeology of modern period)
HS3_009	Numismatics and epigraphy
HS3_010	Papyrology
HS3_011	Ethnography and cultural anthropology (incl. descriptions of traditional cultures, anthropology of magic, worship and religion, cultural change and global processes, anthropology of socio-cultural, ethnic and identity phenomena)
HS3_012	Cultural heritage, cultural memory (incl. inventory of monuments and monuments of culture, local history)
HS3_013	Other related subjects

HS4 - Individuals, institutions, markets

HS4_001	Macroeconomics (incl. economic balance, economic growth, business cycles in global economy, labour economics)
HS4_002	Microeconomics, institutional economics
HS4_003	Econometrics, statistical methods
HS4_004	Population dynamics, demographic processes
HS4_005	Resources and sustainable development
HS4_006	Financial markets, international finance, public finance
HS4_007	Banking, corporate finance, accounting
HS4_008	Behavioral economics, consumption and consumer behavior, marketing
HS4_009	Organization studies, strategic management, concepts and methods of management, logistics
HS4_010	Human resource management, employment and salaries
HS4_011	Public economics, social infrastructure, public administration
HS4_012	Living conditions and standards, income distribution, poverty
HS4_013	International economics
HS4_014	Human and social geography
HS4_015	Land management, urban studies
HS4_016	Other related subjects

HS5 - Norms and governance

HS5_001	Theory and philosophy of law, history of law and legal thought
HS5_002	Constitutional law, human rights, international law and international organizations
HS5_003	Public and social law, public governance
HS5_004	Penal law
HS5_005	Civil law
HS5_006	Political theory and political thought
HS5_007	Political systems and movements; international relations
HS5_008	Regional policy
HS5_009	Social policy (incl. social security, NGOs, social aid, social gerontology, governance and institutions of social dialogue)
HS5_010	Security and defence
HS5_011	Other related subjects

HS6 - Human nature and human society

Physical Sciences and Engineering

ST1 – Mathematics

ST1_001	Logic and foundations
ST1_002	Algebra
ST1_003	Number theory
ST1_004	Algebraic and complex geometry
ST1_005	Geometry
ST1_006	Topology
ST1_007	Lie groups, Lie algebras
ST1_008	Analysis
ST1_009	Operator algebras and functional analysis
ST1_010	Ordinary differential equations and dynamical systems
ST1_011	Partial differential equations
ST1_012	Mathematical methods of physics
ST1_013	Probability and statistics
ST1_014	Discrete mathematics and combinatorics
ST1_015	Mathematical aspects of computer science
ST1_016	Numerical analysis
ST1_017	Applied mathematics
ST1_018	Control theory and optimisation
ST1_019	Other related subjects

ST2 - Fundamental constituents of matter

ST2_001	Fundamental interactions and fields
ST2_002	Particle physics
ST2_003	Nuclear physics
ST2_004	Nuclear astrophysics

ST2_005	Gas and plasma physics
ST2_006	Electricity and magnetism
ST2_007	Atomic and molecular physics
ST2_008	Ultracold atoms and molecules
ST2_009	Optics, non-linear optics and nano-optics
ST2_010	Quantum optics and quantum information
ST2_011	Lasers, ultrashort pulses and laser physics
ST2_012	Relativity and gravitation
ST2_013	Thermodynamics
ST2_014	Non-linear phenomena
ST2_015	Metrology and measurement methods
ST2_016	Statistical physics (gases)
ST2_017	Complex systems
ST2_018	Acoustics
ST2_019	Foundations of physics, mathematical physics
ST2_020	Other related subjects

ST3 - Condensed matter physics

ST3_001	Structure of solids, material growth and characterisation
ST3_002	Mechanical and acoustical properties of condensed matter, lattice dynamics
ST3_003	Transport properties of condensed matter
ST3_004	Electronic properties of materials, surfaces, interfaces, nanostructures, etc.
ST3_005	Physical properties of semiconductors and insulators
ST3_006	Macroscopic quantum phenomena: superconductivity, superfluidity, etc.
ST3_007	Spintronics
ST3_008	Magnetism and strongly correlated systems
ST3_009	Condensed matter interactions with beams of photons, electrons, etc.
ST3_010	Nanophysics: nanoelectronics, nanophotonics, nanomagnetism, nanoelectromechanics, etc.
ST3_011	Mesoscopic physics
ST3_012	Molecular electronics
ST3_013	Structure and dynamics of disordered systems, soft matter, etc.
ST3_014	Fluid dynamics (physics)
ST3_015	Statistical physics of condensed matter, phase transitions, noise and fluctuations, etc.
ST3_016	Physics of biological systems
ST3_017	Other related subjects

ST4 - Physical and analytical chemical sciences

ST4_001	Physical chemistry, chemical physics
ST4_002	Spectroscopic and spectrometric techniques
ST4_003	Molecular architecture and structure
ST4_004	Theoretical and computational chemistry
ST4_005	Analytical chemistry
ST4_006	Instrumental methods in chemistry
ST4_007	Electrochemistry, microfluidics in chemistry, sensors
ST4_008	Organic chemistry
ST4_009	Biological chemistry

ST4_010   Polymer and biopolymer chemistry

ST4_011   Coordination and supramolecular chemistry

ST4_012   Photochemistry

ST4_013   Solid-state chemistry, surface physicochemistry

ST4_014   Catalysis

ST4_015   Colloid chemistry

ST4_016   Ionic liquids

ST4_017   Chemical reactions: mechanisms, thermodynamics, kinetics

ST4_018   Radiation and nuclear chemistry

ST4_019   Environmental chemistry

ST4_020   Inorganic chemistry

ST4_021   Other related subjects

ST5 - Materials and synthesis

ST5_001   Structural properties of materials

ST5_002   Solid-state materials

ST5_003   Surface modification

ST5_004   Thin films

ST5_005   Polymer materials

ST5_006   Porous materials, ceramics, glasses

ST5_007   Composites, organic-inorganic hybrid materials, etc.

ST5_008   Metals, alloys

ST5_009   Biomaterials, biocompatible materials

ST5_010   Functional materials/nanomaterials, nanoparticles

ST5_011   Smart materials – self assembled materials, external stimuli-responsive materials

ST5_012   Methods of nanomaterials/materials synthesis

ST5_013   Research methods on materials/nanomaterials properties

ST5_014   Other related subjects

ST6 - Computer science and informatics

ST6_001   Computer architecture, ubiquitous computing

ST6_002   Computer systems, parallel/distributed systems, sensor networks, embedded systems, cyber-physical systems

ST6_003   Software engineering, operating systems, software development methods, programming languages

ST6_004   Formal methods, foundations of computer science, including theoretical computer science, quantum algorithms

ST6_005   Cryptography, security, privacy, quantum computing

ST6_006   Algorithms, parallel, distributed and network algorithms, algorithmic game theory

ST6_007   Artificial intelligence, intelligent systems, multi-agent systems

ST6_008   Computer graphics, image processing, computer vision, multimedia, computer games

ST6_009   Human computer interaction, speech recognition and synthesis, natural language processing

ST6_010   Web and information systems, database systems, internet technologies, including information retrieval and digital libraries

ST6_011   Machine learning, statistical data processing and applications using signal processing (e.g. speech, image, video)

ST6_012   Scientific computing, simulation and modelling tools

ST6_013   Bioinformatics, biocomputing, DNA and molecular computation

ST6_014	Other related subjects

ST7 - Systems and communication engineering

ST7_001	Control engineering in automation and robotics
ST7_002	Electrical engineering: power components and/or systems
ST7_003	Simulation engineering and modelling
ST7_004	Micro- and nanosystems engineering
ST7_005	Micro- and nanelectronic, optoelectronic and photonic components
ST7_006	Communication technology, high-frequency technology
ST7_007	Signal processing
ST7_008	Communication networks
ST7_009	Man-machine interfaces
ST7_010	Hardware implementation of algorithms
ST7_011	Electronic, optoelectronic and photonic components and systems for applications (e.g. in biomedical engineering)
ST7_012	Electrical energy production, distribution and application
ST7_013	Other related subjects

ST8 - Products and processes engineering

ST8_001	Chemical engineering, technical chemistry, environmental engineering, sanitary engineering, engineering of chemical processes
ST8_002	Maritime/hydraulic/water engineering, civil engineering, aerospace engineering
ST8_003	Computational engineering, computer-aided modelling, design and manufacturing
ST8_004	Fluid mechanics, technical thermodynamics
ST8_005	Power systems (production, distribution)
ST8_006	Mechatronics, fine mechanics
ST8_007	Machine design (modelling, shaping, machining)
ST8_008	Mechanics of solids
ST8_009	Industrial design, product and device design, ergonomics, human-machine interaction
ST8_010	Technical aspects of architecture, urban studies and spatial planning
ST8_011	Production planning and control
ST8_012	Technical aspects of transport
ST8_013	Architectural acoustics
ST8_014	Other related subjects

ST9 - Astronomy and space research

ST9_001	Solar and interplanetary physics
ST9_002	Planets and small bodies of the solar system
ST9_003	Interstellar medium
ST9_004	Formation of stars and planets
ST9_005	Extrasolar planetary systems
ST9_006	Astrobiology
ST9_007	Stars and stellar systems
ST9_008	The Galaxy
ST9_009	Formation and evolution of galaxies
ST9_010	Clusters of galaxies and large-scale structure of the Universe
ST9_011	High energy and particle astrophysics: X-rays, gamma rays, cosmic rays, neutrinos
ST9_012	Relativistic astrophysics

ST9_013	Dark matter, dark energy
ST9_014	Gravitational-wave astronomy
ST9_015	Cosmology
ST9_016	Earth science with satellite techniques
ST9_017	Large data bases: archiving, handling and analysis
ST9_018	Observational and satellite techniques, telescopes, detectors
ST9_019	Other related subjects

ST10 - Earth system science

ST10_001	Atmospheric chemistry, atmospheric physics, atmospheric pollution
ST10_002	Climatology, meteorology, climate change
ST10_003	Physics of the Earth's interior, seismology, geomagnetism, Earth's gravity field
ST10_004	Geochemistry, biogeochemistry
ST10_005	Mineralogy, petrology, volcanology, economic geology
ST10_006	Earth evolution, sedimentology, tectonics, regional geology, marine geology, planetary geology
ST10_007	Geomorphology, cryosphere, global and regional changes of the Earth's landscape
ST10_008	Paleontology, stratigraphy, geochronology
ST10_009	Geophysics, geomechanics, geotechnical engineering, engineering geology, mining
ST10_010	Hydrogeology, hydrology, water cycle, water pollution
ST10_011	Marine physics and chemistry
ST10_012	Geodesy, cartography, geographic information systems, Earth observations from space/remote sensing
ST10_013	Geoecosystem: atmosphere-morphosphere-lithosphere, pedosphere, hydrosphere, biosphere, anthroposphere
ST10_014	Soil science, soil pollution
ST10_015	Paleoclimatology, paleoecology
ST10_016	Changes/shaping and protection of the natural environment

Life Sciences

NZ1 - Molecular biology, structural biology, biotechnology

NZ1_001	Molecular biology
NZ1_002	Biochemistry
NZ1_003	Biophysics
NZ1_004	Structural biology
NZ1_005	Genetic engineering
NZ1_006	Synthetic biology
NZ1_007	Cell engineering
NZ1_008	Tissue engineering
NZ1_009	Biotechnology
NZ1_010	Microbiology
NZ1_011	Other related subjects

NZ2 - Genetics, genomics

NZ2_001	Molecular genetics
NZ2_002	Genomics, transcriptomics, epigenomics
NZ2_003	Proteomics

NZ2_004	Metabolomics
NZ2_005	Cell genetics
NZ2_006	Immunogenetics
NZ2_007	Bioinformatics
NZ2_008	Computational biology
NZ2_009	Systems biology
NZ2_010	Biological systems analysis, modelling and simulation
NZ2_011	Genetic epidemiology
NZ2_012	Other related subjects

NZ3 - Cellular and developmental biology

NZ3_001	Cell biology
NZ3_002	Cell physiology
NZ3_003	Apoptosis
NZ3_004	Ageing
NZ3_005	Molecular neurobiology
NZ3_006	Cell neurobiology
NZ3_007	Signal transduction
NZ3_008	Stem cell biology
NZ3_009	Organogenesis
NZ3_010	Developmental genetics in plants
NZ3_011	Developmental biology in plants
NZ3_012	Developmental genetics in animals
NZ3_013	Developmental biology in animals
NZ3_014	Other related subjects

NZ4 - Biology of tissues, organs and organisms

NZ4_001	Anatomy
NZ4_002	Physiology
NZ4_003	Comparative physiology
NZ4_004	Pathophysiology
NZ4_005	Anatomical pathology
NZ4_006	Endocrinology
NZ4_007	Neurophysiology
NZ4_008	Neuroendocrinology
NZ4_009	Systems neurobiology
NZ4_010	Neuroimaging and computational neuroscience
NZ4_011	Metabolism
NZ4_012	Other related subjects

NZ5 - Human and animal noninfectious diseases

NZ5_001	Etiology of human diseases
NZ5_002	Etiology of animal diseases
NZ5_003	Pathogenesis of human diseases
NZ5_004	Pathogenesis of animal diseases
NZ5_005	Diagnostics in human diseases
NZ5_006	Diagnostics in animal diseases
NZ5_007	Human disease treatment

NZ5_008   Animal disease treatment

NZ5_009   Other related subjects

NZ6 - Human and animal immunology and infection

NZ6_001   Adaptive and innate immunity

NZ6_002   Clinical immunology

NZ6_003   Animal immunology

NZ6_004   Bacteriology

NZ6_005   Virology

NZ6_006   Parasitology

NZ6_007   Mycology

NZ6_008   Other related subjects

NZ7 - Diagnostic tools, therapies and public health

NZ7_001   Epidemiology

NZ7_002   Environment and health risks

NZ7_003   Physical culture and health promotion

NZ7_004   Prevention in population health

NZ7_005   Health services, health care research

NZ7_006   Occupational medicine

NZ7_007   Rehabilitation

NZ7_008   Pharmacoeconomics

NZ7_009   Medical ethics

NZ7_010   Veterinary ethics

NZ7_011   Veterinary healthcare

NZ7_012   Prevention of human diseases

NZ7_013   Prevention of animal diseases

NZ7_014   Pharmacy, pharmacotherapy, pharmacology

NZ7_015   Toxicology

NZ7_016   Other related subjects

NZ8 - Evolutionary and environmental biology

NZ8_001   Evolutionary biology

NZ8_002   Ecology

NZ8_003   Animal behaviour

NZ8_004   Biodiversity

NZ8_005   Biogeography

NZ8_006   Marine biology

NZ8_007   Hydrobiology

NZ8_008   Ecotoxicology

NZ8_009   Population genetics

NZ8_010   Taxonomy and phylogenetic

NZ8_011   Botany

NZ8_012   Zoology

NZ8_013   Human biology and ecology

NZ8_014   Other related subjects

NZ9 - Fundamentals of applied life sciences and biotechnology

NZ9_001	Agronomy
NZ9_002	Animal production
NZ9_003	Forestry
NZ9_004	Horticulture
NZ9_005	Aquaculture, fisheries
NZ9_006	Environment protection
NZ9_007	Nutrition and food sciences
NZ9_008	Environmental microbiology
NZ9_009	Environmental biotechnology
NZ9_010	Bioremediation
NZ9_011	Biohazards, biological containment, biosafety, biosecurity
NZ9_012	Conservation of genetic resources
NZ9_013	Other related subjects