



**Allegato 1: Macroaree e aree scientifiche ERC**

Macroarea PE: Physical Sciences and Engineering	Macroarea LS: Life Sciences	Macroarea SH: Social Sciences and Humanities
<p><b>PE1 Mathematics:</b> All areas of mathematics, pure and applied, plus mathematical foundations of computer science, mathematical physics and statistics</p> <p><b>PE2 Fundamental Constituents of Matter:</b> Particle, nuclear, plasma, atomic, molecular, gas, and optical physics</p> <p><b>PE3 Condensed Matter Physics:</b> Structure, electronic properties, fluids, nanosciences, biophysics</p> <p><b>PE4 Physical and Analytical Chemical Sciences:</b> Analytical chemistry, chemical theory, physical chemistry/chemical physics</p> <p><b>PE5 Synthetic Chemistry and Materials:</b> Materials synthesis, structure-properties relations, functional and advanced materials, molecular architecture, organic chemistry</p> <p><b>PE6 Computer Science and Informatics:</b> Informatics and information systems, computer science, scientific computing, intelligent systems</p> <p><b>PE7 Systems and Communication Engineering:</b> Electrical, electronic, communication, optical and systems engineering</p> <p><b>PE8 Products and Processes Engineering:</b> Product design, process design and control, construction methods, civil engineering, energy processes, material engineering</p> <p><b>PE9 Universe Sciences:</b> Astro-physics/chemistry/biology; solar system; stellar, galactic and extragalactic astronomy, planetary</p>	<p><b>LS1 Molecular and Structural Biology and Biochemistry:</b> Molecular synthesis, modification and interaction, biochemistry, biophysics, structural biology, metabolism, signal transduction</p> <p><b>LS2 Genetics, Genomics, Bioinformatics and Systems Biology:</b> Molecular and population genetics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, computational biology, biostatistics, biological modelling and simulation, systems biology, genetic epidemiology</p> <p><b>LS3 Cellular and Developmental Biology:</b> Cell biology, cell physiology, signal transduction, organogenesis, developmental genetics, pattern formation in plants and animals, stem cell biology</p> <p><b>LS4 Physiology, Pathophysiology and Endocrinology:</b> Organ physiology, pathophysiology, endocrinology, metabolism, ageing, tumorigenesis, cardiovascular disease, metabolic syndrome</p> <p><b>LS5 Neurosciences and Neural Disorders:</b> Neurobiology, neuroanatomy, neurophysiology, neurochemistry, neuropharmacology, neuroimaging, systems neuroscience, neurological and psychiatric disorders</p> <p><b>LS6 Immunity and Infection:</b> The immune system and related disorders, infectious agents and diseases, prevention and treatment of infection</p>	<p><b>SH1 Individuals, Markets and Organisations:</b> Economics, finance and management</p> <p><b>SH2 Institutions, Values, Environment and Space:</b> Political science, law, sustainability science, geography, regional studies and planning</p> <p><b>SH3 The Social World, Diversity, Population:</b> Sociology, social psychology, demography, education, communication</p> <p><b>SH4 The Human Mind and Its Complexity:</b> Cognitive science, psychology, linguistics, philosophy of mind</p> <p><b>SH5 Cultures and Cultural Production:</b> Literature, philology, cultural studies, anthropology, study of the arts, philosophy</p> <p><b>SH6 The Study of the Human Past:</b> Archaeology and history</p>



<p>systems, cosmology, space science, instrumentation</p> <p><b>PE10 Earth System Science:</b> Physical geography, geology, geophysics, atmospheric sciences, oceanography, climatology, cryology, ecology, global environmental change, biogeochemical cycles, natural resources management</p>	<p><b>LS7 Diagnostics, Therapies, Applied Medical Technology and Public Health:</b> Aetiology, diagnosis and treatment of disease, public health, epidemiology, pharmacology, clinical medicine, regenerative medicine, medical ethics</p> <p><b>LS8 Evolutionary, Population and Environmental Biology:</b> Evolution, ecology, animal behaviour, population biology, biodiversity, biogeography, marine biology, microbial ecology</p> <p><b>LS9 Applied Life Sciences and Non-Medical Biotechnology:</b> Applied plant and animal sciences; food sciences; forestry; industrial, environmental and non-medical biotechnologies, nanobiotechnology, bioengineering; synthetic and chemical biology; biomimetics; bioremediation</p>	
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