



UNIVERSITÀ
DEGLI STUDI DI TRIESTE

Area dei Servizi Istituzionali
Unità di staff Dottorati di ricerca

ATTACHMENT 10

LAST REVISED 05/05/2021

**PhD IN
NEURAL AND COGNITIVE SCIENCES
OVERVIEW**

IN BRIEF									
Lines of research	<ol style="list-style-type: none"> 1 Neurobiology, neurogenesis, and cellular neurophysiology 2 Clinical neurosciences 3 Perception, action and attention 4 Memory, language, and executive control 5 Thinking, judgment and decision making 6 Comparative psychology 7 Cognitive neuroscience 8 Typical and atypical development 9 Personality and social psychology 10 Sport psychology 								
Administrative location	University of Trieste								
Organizing Department	Department of Life Sciences								
Duration	3 years								
Attendance abroad that entitles to a scholarship increase - min. max. of months for each PhD student (over 3 years)	2 - 18								
Official language	Italian								
Language (alternative to Italian) partially used in PhD activities	Some of the seminars proposed by invited speakers will be in English. Monthly-based journal club meetings will consist of a presentation from the doctoral candidate and a discussion with colleagues and the school members in English. The doctoral candidate will present his/her annual report of the activities in English to an external examiner.								
Subject Areas <i>(in alphabetical code order)</i>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100px;">05</td> <td>BIOLOGY</td> </tr> <tr> <td>06</td> <td>MEDICINE</td> </tr> <tr> <td>11b</td> <td>PSYCHOLOGY</td> </tr> </table>	05	BIOLOGY	06	MEDICINE	11b	PSYCHOLOGY		
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Macro Research Fields <i>(in alphabetical code order)</i>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100px;">05/D</td> <td>PHYSIOLOGY</td> </tr> <tr> <td>05/E</td> <td>EXPERIMENTAL AND CLINICAL BIOCHEMISTRY AND MOLECULAR BIOLOGY</td> </tr> <tr> <td>06/D</td> <td>MEDICAL SPECIALITIES</td> </tr> <tr> <td>11/E</td> <td>PSYCHOLOGY</td> </tr> </table>	05/D	PHYSIOLOGY	05/E	EXPERIMENTAL AND CLINICAL BIOCHEMISTRY AND MOLECULAR BIOLOGY	06/D	MEDICAL SPECIALITIES	11/E	PSYCHOLOGY
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Scientific Disciplinary Sectors <i>(in alphabetical code order)</i>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100px;">BIO/09</td> <td>PHYSIOLOGY</td> </tr> <tr> <td>BIO/10</td> <td>BIOCHEMISTRY</td> </tr> <tr> <td>M-PSI/01</td> <td>GENERAL PSYCHOLOGY</td> </tr> <tr> <td>M-PSI/02</td> <td>PSYCHOBIOLOGY AND PHYSIOLOGICAL PSYCHOLOGY</td> </tr> </table>	BIO/09	PHYSIOLOGY	BIO/10	BIOCHEMISTRY	M-PSI/01	GENERAL PSYCHOLOGY	M-PSI/02	PSYCHOBIOLOGY AND PHYSIOLOGICAL PSYCHOLOGY
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	M-PSI/04	DEVELOPMENTAL AND EDUCATIONAL PSYCHOLOGY
	M-PSI/05	SOCIAL PSYCHOLOGY
	M-PSI/08	CLINICAL PSYCHOLOGY
	MED/26	NEUROLOGY
Domain European Research Council	SH	SOCIAL SCIENCES AND HUMANITIES
	LS	LIFE SCIENCES
ERC Panels	SH4	THE HUMAN MIND AND ITS COMPLEXITY: COGNITIVE SCIENCE, PSYCHOLOGY, LINGUISTICS, THEORETICAL PHILOSOPHY
	LS5	NEUROSCIENCE AND DISORDERS OF THE NERVOUS SYSTEM: NERVOUS SYSTEM DEVELOPMENT, HOMEOSTASIS AND AGEING, NERVOUS SYSTEM FUNCTION AND DYSFUNCTION, SYSTEMS NEUROSCIENCE AND MODELLING, BIOLOGICAL BASIS OF COGNITIVE PROCESSES AND OF BEHAVIOUR, NEUROLOGICAL AND MENTAL DISORDERS
	LS2	INTEGRATIVE BIOLOGY: FROM GENES AND GENOMES TO SYSTEMS: FOR ALL ORGANISMS: GENETICS, EPIGENETICS, GENOMICS AND OTHER 'OMICS STUDIES, BIOINFORMATICS, SYSTEMS BIOLOGY, GENETICDISEASES, GENE EDITING, INNOVATIVE METHODS AND MODELLING, 'OMICS FOR PERSONALISED MEDICINE

WHO'S WHO	
Chair	Prof. Tiziano Agostini - Department of Life Sciences – University of Trieste - tel. +39 040.9828875; email agostini@units.it
Vice	Prof. Cinzia Chiandetti - Department of Life Sciences – University of Trieste - phone +39 040.5588677; email cchiandetti@units.it
PhD Academic Board	List of members
Web site	https://www.biologia.units.it/corsi/9/dottorato-in-neuroscienze-e-scienze-cognitive
Courses and seminars	https://www.biologia.units.it/pagine/373/Syllabi
Email	ncs.program@units.it
Course description and objectives	<p>The Ph.D. program in Neural and Cognitive Sciences (NCS) provides advanced research training focused on the interdisciplinary study of the central and peripheral nervous systems, the mind/brain system, cognition, and on applications in clinical, social, ergonomic, and sport contexts.</p> <p>The students will develop competencies in: cellular neurophysiology; neurogenesis; neuropsychology and clinical psychology; psycholinguistics; perception, action and attention; memory and executive control; thinking, judgment, and decision making; sport psychology; typical and atypical development; personality; social psychology; community psychology; comparative psychology. At the end of the course, the students will be able to formulate an independent project; to coordinate data collection integrating methods of biological and psychological sciences; to evaluate results; to propose technological innovations for clinical and rehabilitation purposes; to operate in multidisciplinary teams in public and private institutions.</p> <p>Taking into account students' CV, the PhD board defines individual programs, including a component focused on interdisciplinary knowledge and a component on specific advanced research abilities. Formal learning opportunities will include: lectures; journal club; seminars; scientific reporting; stages in foreign institutions; participations in national and international meetings; summer schools for young researchers.</p>
Job placement opportunities	<p>PhDs in NCS will be able to conduct:</p> <ul style="list-style-type: none"> - qualified jobs that require specific and high-level knowledge in neurobiology, neuroengineering, psychology, and related disciplines, to be employed in public

and private research centres and institutes, industries and clinics;

- qualified jobs concerning the development of technology and experimental methodologies relevant for neural and cognitive sciences, with applications to basic, pharmacological, and clinical research, to cognitive ergonomics, to the improvement of sport performance, to rehabilitation;
- qualified jobs concerning the promotion of the public understanding of neural and cognitive sciences and the communication of their theoretical and experimental achievements, as well as of the relevance of their applications.

Main cooperating international Universities and Research Institutions

- 1 German Sport University Cologne, Institute of Psychology, Germany
- 2 Department of Psychology, Stockholm University, Sweden
- 3 School of Psychology, Bangor University - Adeilad Brigantia, Penrallt Road, Gwynedd LL57 2AS, United Kingdom
- 4 De Montfort University, United Kingdom
- 5 Queen Mary University of London, United Kingdom