

SERVIÇO DE INVESTIGAÇÃO E PROJETOS U. PORTO

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TITLE

research units @ U.porto

FORMAT

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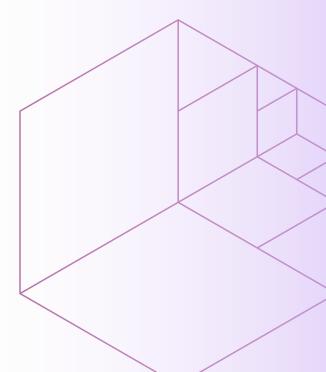
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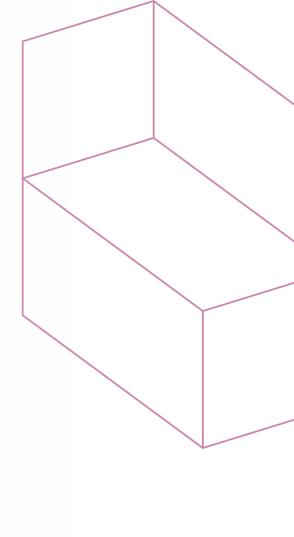
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ACKNOWLEDGEMENTS

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03 FOREWORD

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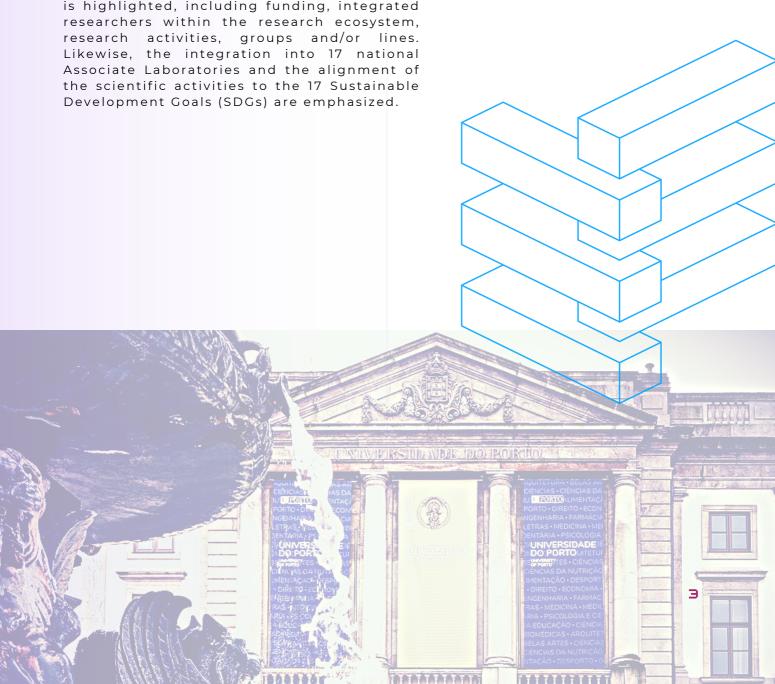
- 08 Arts and Humanities
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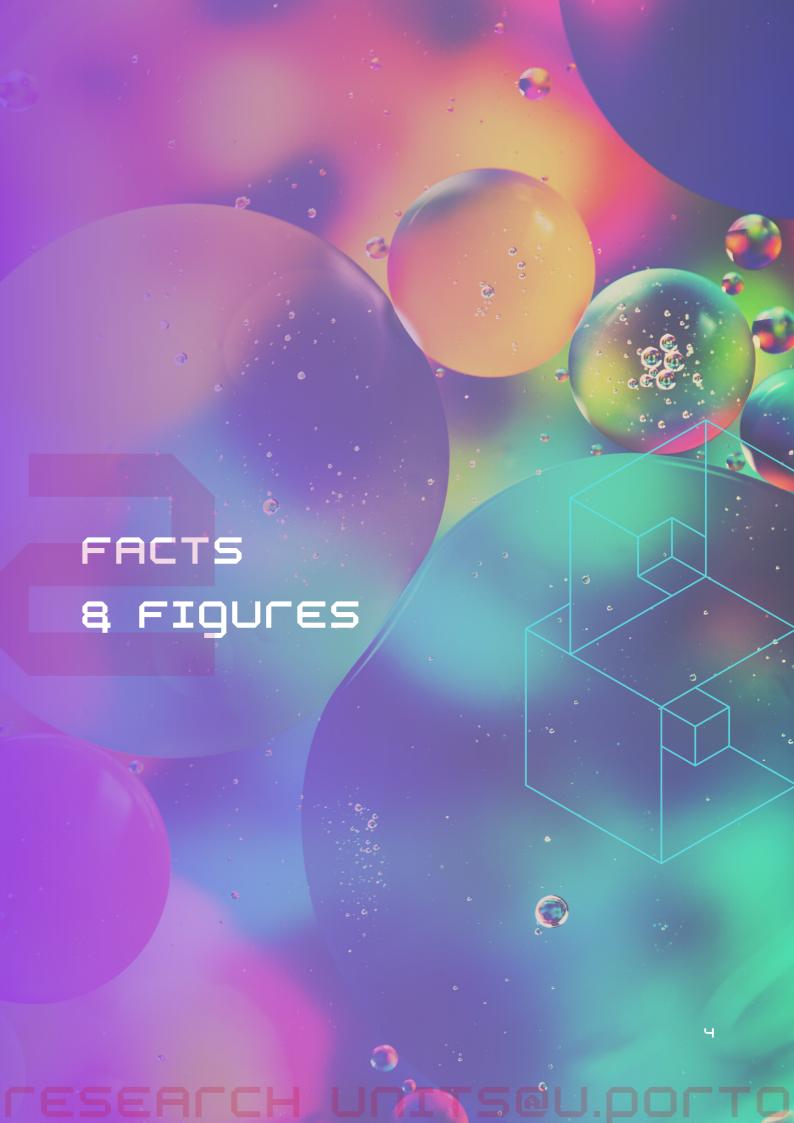
FOREWORD

This publication is dedicated to U.Porto's Research Units (R&D Units), recognized and funded by the Portuguese Foundation for Science and Technology (FCT).

The U.Porto research ecosystem - composed of 14 faculties and 11 associated research institutes - comprises 48 Research Units, 21 of which are co-managed with other national institutions. 90% of R&D Units were classified with Excellent or Very Good.

This mapping acknowledges and provides a broader overview of the 48 R&D Units. Specifically, for each R&D Unit a set of details is highlighted, including funding, integrated researchers within the research ecosystem, research activities, groups and/or lines. Likewise, the integration into 17 national Associate Laboratories and the alignment of the scientific activities to the 17 Sustainable Development Goals (SDGs) are emphasized.





FACTS & FIGURES

U.PORTO RESEARCH ECOSYSTEM

RESEARCH UNITS

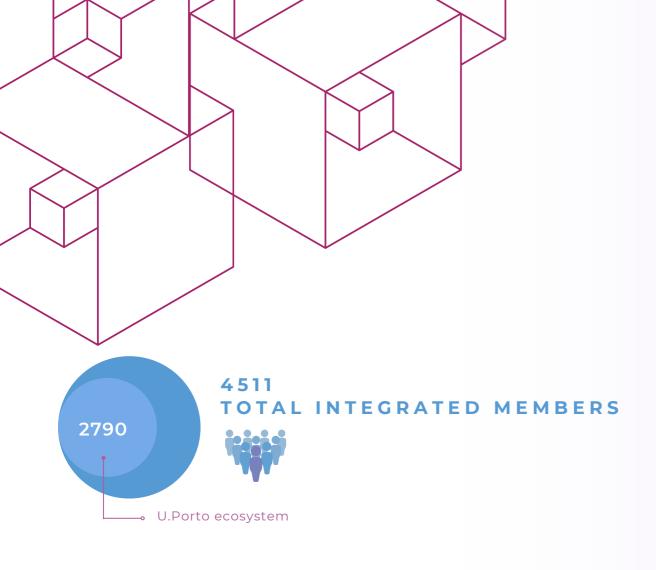
RESEARCH UNITS PER AREA

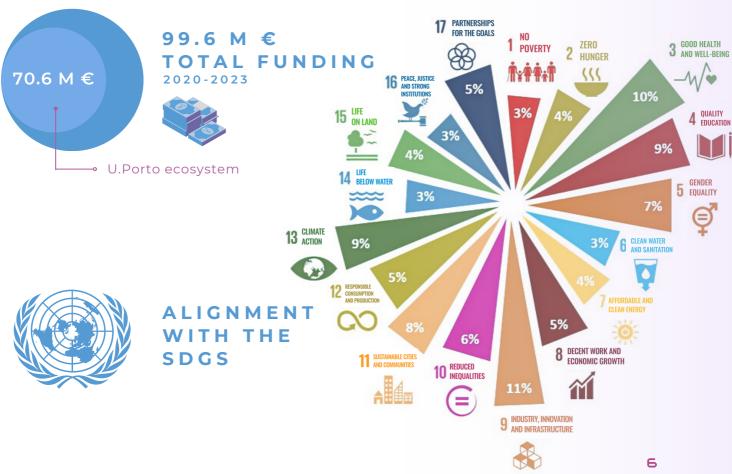
SCIENTIFIC AREAS



90 % EVALUATED AS EXCELLENT OR VERY GOOD







TESEACCH UNITS@U.DOCTO





CEAU

CENTIE FOR STUDIES IN ARCHITECTURE AND URBANISM



CEAU is based at the Faculty of Architecture of the University of Porto (FAUP) aiming the production and dissemination of Architectural knowledge, based on the understanding of the discipline of architecture as a field where a wide variety of artistic and scientific topics overlap, e.g. theory, history, technology, urban studies. CEAU is currently a medium-sized research unit, having grown steadily in the last decade. It has studio- rooms for the research groups and their ongoing projects, for integrating individual as researchers who develop research actions in close correlation with the center's activity. Although the original field of research of the CEAU is Architecture and Urbanism, the center integrates and receives researchers several other disciplines, from namelv. Anthropology, Archaeology, Economy, Engineering, Geography, History Sociology. CEAU is strongly committed with internationalization through different activities and strategies: i) the foundation of thematic research networks; ii) organization οf several international conferences (in leading subjects in the disciplinary field); iii) the participation of its members in a wide range of scientific conferences; iv) the participation examination panels and scientific committees; v) and the organization of research meetings, seminars and discussions.

WEBSITE: CEAU.ARQ.UP.PT

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COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 1.7 M €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 75

FCT EVALUATION

Very Good

KEYWORDS

Architectural Design Architecture Construction Drawing History Urbanism

RESEARCH GROUPS \ LINES

Architecture & Modes of Inhabiting (AMH)
Architecture, Art & Image (AAI)
Architecture, City & Territory
Heritage (PACT)
Architecture: Theory, Project &
History (ATPH)
Digital Fabrication Laboratory (DFL)
Housing Architectural Design &
Forms of Dwelling (AdC)
Territory Dynamics & Morphologies (MDT)
Theory & Project Practices (T2P)

CERUP CENTLE OF ALLICAN STUDIES OF THE UNIVERSITY OF PORTO

CEAUP is one of the earlier R&D Units for African Societies in Portugal (since 1998). It is a multidisciplinary Unit of Social Sciences that includes researchers from Europe, Africa Brazil. CEAUP develops interdisciplinary activities on area studies engaging different donors (e.g. ERC, FCT, IPAD). Since 2006 the CEAUP is committed to a methodology of action research, trying to combine the results of research activities with cooperation actions. Its strategies aim to promote change narrowing the gap between theoretical and endogenous knowledge, working along with NGOs and regional institutions in African countries. The CEAUP itself acquired an NGO status since 2009 and several of its researchers participated in networks for the production of African text books for primary and secondary education, of management of water resources, etc. CEAUP achievements include interdisciplinary journal Africana Studia, and the monographs series Estudos Africanos, Experiencias de África, and CEAUP Series on Africa, published by Peter Lang.

WEBSITE: AFRICANOS.EU

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COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23) 169 K € (U.Porto ecosystem: 97 K €)

INTEGRATED RESEARCHERS

45 (U.Porto ecosystem: 3)

FCT EVALUATION

Good

KEYWORDS

African Studies Archaeology of Africa **Educational Studies** International Relations Labour History Tropical Geography

























RESEARCH GROUPS | LINES

Education, Development & Global Citizenship Policies & African Territories Trade Unionism & Labour Work in Africa

CETAPS

CENTIE FOR ENGLISH, TRANSLATION, AND ANGLO-PORTUGUESE STUDIES

CETAPS is a dynamic research centre that brings together integrated members and collaborators from 16 Portuguese institutions of higher education, promoting research and activities with high national and international reach. CETAPS runs 6 open access databases, publishes 4 open access electronic journals (one of which has been recently indexed by Scopus), and has a Digital Laboratory which is the result of the R&D+i unit's commitment to the development of the Digital Humanities. It has also been involved in MA and PhD programmes, both national and international (eg. European Joint Doctorate MOVES -Migration and Mobility: Historical and Cultural Challenges, and Erasmus Mundus Masters Crossways in Cultural Narratives), and has consistently invested in a considerable number of high impact outreach activities. Additionally, it offers scholarships training programmes to young researchers benefits from the energy commitment of the Junior Researchers in Anglo-American Studies Platform (JRAAS) to promoting activities connected with the literature, culture and the arts of the anglophone world. Research at CETAPS is organized into 6 research areas and 7 research strands with fluid boundaries and memberships, overlapping reflectina vocation not merely to host projects, but rather to provide members with conditions that facilitate their evolving participation in well-established but adaptable structures. This organizational strategy fostered events and publications over the past five years: 94 organized conferences, 250 books/book chapters, and 246 published papers; the CIPSH Chair on Digital Humanities in Education (2020-25); the translation of William Shakespeare's dramatic works; the development of 6 databases (EDLT, BBP, DPT, LTSB, Shakespeare TM & English Travellers in Portugal); and the participation international networks & projects (MOVES, UTOPIA500, ICEPELL, CANDIICE, ITELAB).

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COORDINATOR AT U.PORTO

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RESEARCH UNIT FCT FUNDING (20/23)

1.2 M € (U.Porto ecosystem: 543 K €)

INTEGRATED RESEARCHERS

57 (U.Porto ecosystem: 24)

FCT EVALUATION

Excellent

KEYWORDS

Culture
English Language
Languages teaching
Literature
Translation



RESEARCH GROUPS | LINES

Anglo-Portuguese Studies
Mapping Utopianisms
Relational Forms: Medial & Textual
Transits in Ireland & Britain
Shakespeare & The English Canon:
History, Criticism, Translation
Anglophone Cultures & History:
American Intersections

Literature & Media
Science & Culture

Teacher Education & Applied

Language Studies:
Intercultural Studies in Second
Language Education
Languages, Curriculum & Teacher
Education
Translationality
Content & Language Integrated
Learning (CLIL)

CITTA

TESEATCH CENTIE FOR TELLITORY, TRANSPORTS AND ENVIRONMENT

CITTA is a FEUP and FCTUC research unit dedicated to the advancement dissemination of knowledge in the fields of Spatial Planning, Environmental Policy, and Transport Planning and Engineering. It is the result of the merging of a smaller homonymous FEUP unit, with the Spatial Planning and Transport Engineering group from FCTUC's Civil Engineering Research Centre (CIEC). CITTA seeks to develop inter and multidisciplinary applied research, policy and design oriented, in the fields of Spatial Planning, Environmental Policy, and Transport Planning and Engineering, focusing on the roles of cities, urban systems and their transport infrastructure and services, under a distinctive post carbon paradigm perspective, able to feed and influence the international research agenda without jeopardizing the potential of knowledge generation associated to the specific nature of local, regional and national planning and transport issues. CITTA's team of researchers have backgrounds Civil Engineering, Architecture, Environmental Engineering, Geography, Landscape Architecture, Spatial Planning, and Sociology, and are affiliated to various Portuguese Universities and Polytechnic Institutes. CITTA has been strongly involved in EU-, COMPETE- and FCT-funded research projects, collaboration with leading research universities such as MIT, Carnegie Mellon U, EPF Lausanne, ETH Zurich, Imperial College and U.Cambridge.

WEBSITE: CITTA.FE.UP.PT

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COORDINATOR AT U.PORTO
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RESEARCH UNIT FCT FUNDING (20/23)
1.8 M € (U.Porto ecosystem: 1.1 M €)

INTEGRATED RESEARCHERS 50 (U.Porto ecosystem: 31)

FCT EVALUATION

Excellent

KEYWORDS

Environmental Policy & Management Spatial Planning Transport Planning & Engineering Urban Policy & Planning



RESEARCH GROUPS \ LINES

Anglo-PoPlanning & Environmental Assessment Transport Analysis & Planning Transport Engineering & Management Urban Planning & Housing

CITCEM

TCANSDISCIPLINACY CESEACCH CENTCE CULTUCE, SDACE AND MEMOCY

Founded in 2007, CITCEM is a R&D Unit based at the Faculty of Arts and Humanities of the University of Porto. Anchored in the wider field of the humanities and social sciences, CITCEM operates as a transdisciplinary research platform, exploring the close connections between several disciplines, such as history, archaeology, art history, cultural and literary studies, demography, information, communication and heritage sciences. amongst others. CITCEM focuses on the transdisciplinary study of memory heritage themes in connection with the evolving interactive construction of economic, social, political, cultural and territorial identities and spaces, with a particular but not exclusive emphasis on North-western Portugal. This focus encompasses the study of identitary memories, cultural heritage in its material and immaterial forms, environmental and history, rural urban landscapes, population mobility, religious practices, and other associated research topics. From its inception, CITCEM has been working in close partnership with local authorities. independent institutions interested and parties in general, building a strong regional rapport which has managed to catalyse further successful national and international collaborations. The results are two COST Actions - Women on the Move, and Language in the Human-Machine Era -; the History Lab for European Civic Engagement, an open e-Toolkit to train History Teachers on Digital teaching and Learning, funded by Erasmus+; two exploratory projects "Letters in the Cloister" and "The reconstruction of monastic archives in Northern Portugal", funded by FCT (2021); and MOVES - Migration and Modernity, a European Joint Doctorate (Marie Curie Action).

WEBSITE: CITCEM.ORG

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COORDINATOR

Inês Amorim | iamorim@letras.up.pt

RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 2.6 M €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 73

FCT EVALUATION

Very Good

KEYWORDS

Cultural Inclusiveness
Digital Culture
Historical Narrative
Memory & Heritage
Migration & Permeability
Sustainable Transitions















RESEARCH GROUPS \ LINES

Information, Communication & Digital Cultures
Education & Societal Challenges;
Global Representations
Population & Health
Religious Practices & Sociabilities
Tangible & Intangible Heritage
Territory & Landscape
Trading Value

IF

INSTITUTE OF PHILOSOPHY OF THE UNIVERSITY OF PORTO

IF is an established Research Unit with activities in various domains of Philosophy. Its main aim is to foster and support research in Philosophy, and to make it available to the widest possible audience, both in and outside the academia, in Portugal and abroad. This is accomplished mostly through the Institute's publications and the events it organizes (conferences, seminars, workshops, lectures, colloquia, etc.). Through the part of its work that is done in Portuguese, the Institute aims at extending its reach to the worldwide philosophical Portuguese-speaking community. The Institute has established protocols and networks with other research units or research groups in Portugal and abroad, namely in the areas of Mind, Language and Action, Ethics and Political Philosophy, Aesthetics, Epistemology, Medieval and Early Modern Philosophy and Culture, and Portuguese Thought and Culture. The Institute's protocols and networks give support to undergraduate and graduate programmes of the Department of Philosophy, making it possible for University of Porto students Philosophy tο circulate and be in touch internationally important research centers worldwide. Some of the Institute's recent achievements are: the book The Logical Alien (2020). Edited by Sofia Miguens. Harvard University Press; the chapter "City and Common Space" (Paula Cristina Pereira) in The Routledge Handbook of Philosophy of the City (2019). Routledge; "From Data the project to Wisdom. Philosophizing Data Visualizations in the Middle Ages and Early Modernity (13th-17th Century) (PI Jose Higuera)"; the book A Ciência Metafísica. Itinerários de um conceito (2018). Edited by Oliveira e Silva, P., Rebalde, J., Poncela, A. Afrontamento; and the book De Portugal a Macau: Filosofia e Literatura no Diálogo das Culturas (2017). AAVV. FLUP.

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COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 1.3 M €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 25

FCT EVALUATION

Very Good

KEYWORDS

Epistemology History of Philosophy Metaphysics Aesthetics Philosophy Political Philosophy



RESEARCH GROUPS \ LINES

Aesthetics, Politics & Knowledge Aristotelica Portugalensia Mind, Language & Action Philosophy & Public Space Reason, Politics & Society Roots & Horizons

IZAds

research institute in art, design and society

i2ADS is a R&D unit based at the Faculty of Fine Arts of the University of Porto that has the mission of promoting research in Fine Art, Performative arts, Drawing, Design and Arts Education. The core of its mission is the practical and educational impact of artistic research in society and its main goals are the development of a research culture shared among the several artistic areas that compose it to inform and develop its practices; the promotion of debate on the social, cultural and technological frameworks of art and design; the development of research careers in Art and Design and the support to young researchers. The Unit supports two Doctoral Programs (Fine Arts and Arts Education) and is actively involved in the promotion of a research culture among master's and BA's Programs at FBAUP. i2ADS is also an Institutional and Portal member of the Society of Artistic Research (SAR) and the European Educational Research Association (EERA). i2ADS' main achievements include: project "CREARTE - Creative Primary School Partnerships with Visual Artists"; project "Social inclusion & Well-being through the and Interdisciplinary Practices"; IDENTIDADES_Colectivo de Acção Investigação; and the book "Post-Digital Letterpress Printing: Research, Education and Practice", published by Routledge.

WEBSITE: I2ADS.UP.PT

Faculty of Fine Arts [FBAUP] +351 225 192 429 | i2ads@fba.up.pt

COORDINATOR AT U.PORTO

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 669 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 32

FCT EVALUATION

Very Good

KEYWORDS

Art
Artistic studies
Arts education
Design
Drawing
Music & performing arts



RESEARCH GROUPS \ LINES

Artistic Practice, Politics & Social Engagement
Artistic Production, Processes & Technological Studies
Arts Education, Critique & Society
Computation, Hybrid Practices & Culture
Drawing Across Disciplines
Interculturality & Society

Id+

research institute for design, media and culture

ID+ is a multidisciplinary research structure anchored in three institutions: University of Aveiro (Department of Communication and Art) [UA /DeCA], University of Porto (School of Fine Arts) [FBAUP] and, since 2017, the Polytechnic Institute of Cávado and Ave (School of Design) [IPCA / ESD]. It is centered on Design, while extending to further creative areas in Culture and the Arts. Its strategic guidelines are to actively intervene in the production and application of knowledge, enhancing the cultural mediation function that characterizes Design, along with the social questioning and the poetic innovation that Art allows; to demonstrate the structuring importance of Design and Art in definition and multidisciplinary implementation of credible scenarios for sustainable growth, where quality of life is a prerequisite for prosperity; to validate Design and Art as ethical agents of a demanding, participative critical and citizenship, cultivating its appropriation and translatability on a social, cultural and economic level; to scrutinize contemporaneity of cultural heritage in its dynamic relationship with new technological and media paradigms. Its members have participated several funded projects (9 Erasmus+, 3 Creative Europe, 4 FEDER, 7 FCT); community outreach projects "Art on Chairs" (Paredes/RegioStars Prize), and Places"; and in two international networks -DESIS Network (coordination), and European Academy of Design. In addition to these, nearly one third of the PhDs in Design carried out in Portugal were supervised by ID+ members.

WEBSITE: IDMAIS.ORG

Faculty of Fine Arts [FBAUP] \ idmais@gmail.com

COORDINATOR AT U.PORTO

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RESEARCH UNIT FCT FUNDING (20/23)

1.2 M € (U.Porto ecosystem: 232 K €)

INTEGRATED RESEARCHERS

84 (U.Porto ecosystem: 12)

FCT EVALUATION

Very Good

KEYWORDS

Contemporary Media Corporate
Impact of Research
Culture & Creativity
Design for Entrepreneurial
Development
Design Literacy & History Regional
Networks for Valuing Design &
Culture
Research Through Design & Art

RESEARCH GROUPS \ LINES

Cinema and Digital Narratives (CINEMAS) Communication, Art, Object & Synergies (CAOS) Critical Design Lab for Growth & Prosperity (MADE.PT) Design for Ecosystemic Spaces (OIKOS) Design for Social Innovation & Sustainability (ID+ DESIS.LAB) Design, Nature, Culture & Tourism (PERIPHERIES) Health + Design Lab (HEAD) Praxis & Poiesis: from arts practice towards art theory (P&P) Strategic Design Lab (SD-LAB) Theory & Memory (THEME) Typographic Research Network (NIT) Unexpected Media Lab (LUME)



ILCML

MACGACIDA LOSA INSTITUTE FOR COMPACATIVE LITECATUCE

The Margarida Losa Institute for Comparative Literature (ILC) is a Research Unit based at the Faculty of Arts and Humanities of the University of Porto, whose work is fundamentally focused on the field of Literary Studies, Art Studies, Cultural Studies and Feminist Studies, in conjunction with other scientific areas such as Philosophy or Sociology. The institute hosts 2 knowledge bases and 2 databases and an online portal for an international research network and publishes 3 electronic journals, 2 digital book series, and 4 printed book series, having in its catalogue award-winning books of essays. Many of its researchers collaborate in different study cycles and advanced training courses at the Faculty of Arts and Humanities of the University of Porto and maintain collaboration protocols with various local and national cultural institutions. The Institute also participates in several international projects and regularly organizes seminars, international colloquia, multidisciplinary events and university extension activities, benefiting from a wide community of visiting researchers, lecturers and guest artists.

WEBSITE: ILCML.COM

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COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 603 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 27

FCT EVALUATION

Very Good

KEYWORDS

Comparative Literature Cultural Studies, Gender & Feminist Studies Interart Studies 3 GOOD HEALTH
AND WELL-BEING
4 QUALITY
5 GENDER
5 GENDER
10 REDUCED
11 SUSTAINABLE CIT
11 AND COMMUNITIES
13 CLIMATE
AND STRONG
INSTITUTIONS
INSTITUTIONS

RESEARCH GROUPS | LINES

Inter / Transculturalities
Intermedialities
Intersexualities

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stom"==p}{m=b.detail;if(!m||!m._type)return
;else{var l=b.which||b.keyCode;ca&&3==\&(\=1)\\
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{n=(e.getAttribute("role")||e.type||e.technology
b.scctement||b.target;l=Q(m,b,e,"",null);b.sscr
(!t){var y;t=null;"getAttribute"in u&&(t=u.getAttri
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listener){if("focus"==b||"blur"==b||"error"==b||"loss
.attachEvent("on"+b,g));return{m:b,l:g,capture:p}}}.
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sth;b++)if(S(a.a[b],c)){c=!0;break a}c=!1}if(c)retur
(p,c)?(d.push(p),X(p)):b.push(p))
 e.cursor="pointer");for(d=0;d<a.o.length;++d)c.g.p.
   g={|}},S=function(a,c){for(a=a.a;a!=c&&c.parenulos
1), X=function(a){for(var c=0;c<a.g.length;++c){var
 ())a.g=[]);var Z=new 0;V(Z,window.document.documentEle
        lick"):N(Z, "input");N(Z, "keyup");N(Z, "keydown");
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CEFT TERESPORT PHENOMENA SESEARCH CENTEE

CEFT is a research unit focusing on the subdomain of transport phenomena, spanning from the macro to the micro scales and an experimental integrating successfully approach with numerical methods and theoretical formulations, bridging the main of chemical and mechanical engineering, developing research activities with the best possible combination of people no matter their origin and place of work. It researchers from various Departments and Institutions across Portugal, thus departing from the traditional model of vertical organization. Since its inception in 1996, it has grown steadily, but sustainably, into a medium sized unit with an informal governance system that potentiates and promotes independent research and enhances creativity. The dissemination of knowledge, an imperative social activity, and the training of highly skilled young researchers in Transport Phenomena are also important achievements of the group. For this purpose, CEFT supports some groups of young researchers who are working in Polytechnic Institutes.

WEBSITE: CEFT.FE.UP.PT

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 775 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 20

FCT EVALUATION

Excellent

KEYWORDS

Chemical Engineering
Energy
Fluids
Mechanical Engineering
Microfluidics

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Fluids Energy



CEMENA CENTRE FOR NATURAL MESOURCES AND ENVIRONMENT

CERENA is a medium size R&D Unit with several integrated PhD researchers from various scientific fields such as mining geosciences, engineering, chemical materials engineering engineering, geophysics among others gathered either by a common field of application and/or by the methodological approaches. CERENA's mission is to develop research at the highest level of excellence related to the sustainable use of natural resources, including energy, as well as their impact on the environment. It is committed to finding solutions for current societal challenges, including those related to climate action, environment, health, raw materials and resource efficiency and, safe, clean and efficient energy, in order to contribute goals to achieving the sustainable development and the progress towards a circular economy. CERENA is hosted by two portuguese engineering schools: Instituto Superior Técnico from University of Lisbon and Faculty of Engineering of the University of Porto and it participates actively international research networks such as EIT Raw Materials, KIC-InnoEnergy, Eurelco, IETS, COST Action. Some of CERENA's outstanding projects are: CAVALI project that aims to develop up to the maximum limit considered as possible and feasible, the value chain of production cycle of lithium-based batteries for electric vehicles, thus enhancing the maximization of the added value resulting from the exploitation of the national resources of this metal; SHS - Soil health mining surrounding former areas characterization, risk analysis, and intervention; InTheMed-Innovative Sustainable Groundwater Management in the Mediterranean - where the main goal is to implement innovative and sustainable management tools and remediation strategies in five typical case studies, located between the two shores of the MED; BETTER PLASTICS project aims to be the Mobilizing Project of the Plastics Sector in Portugal and leverage the transition of this sector to a circular economy and Clean4G-Conversition of CO2 from cement production process into a clean gaseous fuel for use in the same processcircularity in the process of emissions.

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RESEARCH UNIT FCT FUNDING (20/23)

1.8 M € (U.Porto ecosystem: 246 K €)

INTEGRATED RESEARCHERS

75 (U.Porto ecosystem: 12)

FCT EVALUATION

Excellent

KEYWORDS

Circular Economy
Energy
Engineering
Environment
Processes & Systems Modelling
Resources & Raw Materials

17 PARTNERSHIP FOR THE GOAL

RESEARCH GROUPS | LINES

Energy (EnerG) Environment (EnvG) Raw Materials (RawMatG)

SYSTEC

research centre for SYSTEMS AND TECHNOLOGIES

SYSTEC is hosted at the Faculty Engineering at the University of Porto and in the Institute for Systems and Robotics (ISR). Supported by the faculty in what concerns infrastructures, human resources, and its vast collaborative research network, and by ISR I what concerns the networks of stakeholders, and of institutions addressing the societal challenges, SYSTEC advances its R&D and Innovation agenda to promote: academic excellence. worldwide networking institutions and researchers with opportune scientific affinities to ensure the critical mass, interaction with end-users and stakeholders to promote the tuning with challenge-driven innovation dynamics, emergence of actors relevant to the evolution of paradigms for the societal impact of science and technology, as well as integration with advanced formation activities. SYSTEC is part of the Associated Laboratory ARISE, and participates in many initiatives, being Vasco da Gama, +ATLANTIC and HyLAB - Green Hydrogen COLABS, in the EMSO, and AIRCENTER infra-structures of the National Roadmap, as well as SHIFT2RAIL, and KIC - EIT Manufacturing, the few most significant ones. It has also created five successful start-ups: MOBICAR, CONNECT ROBOTICS, NOMADTECH, ADDVOLT, 4DCTECH, and OCEANSCAN.

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António Pedro Rodrigues Aguiar apra@fe.up.pt

665 K € (U.Porto ecosystem: 419 K €)

INTEGRATED RESEARCHERS 26 (U.Porto ecosystem: 18)

FCT EVALUATION Very Good

Advanced Manufacturing Systems Control Optimization & Estimation Networked Robotic Vehicle Systems Renewable Energy & Smart Mobility

ASSOCIATE LABORATORIES



COORDINATOR AT U.PORTO

RESEARCH UNIT FCT FUNDING (20/23)

KEYWORDS

RESEARCH GROUPS | LINES

Laboratory of Cyber-Physical Control Systems & Robotics (C2SR) Laboratory for Systems Control Optimization & Estimation (LSCOE) Laboratory for Electric Mobility & Renewables (LEMR) Laboratory for Digital & Intelligent Industry





















INESC TEC INSTITUTE FOR SYSTEMS AND COMPUTER ENGINEERING, TECHNOLOGY AND SCIENCE

INESC TEC is a private non-profit research association, with Public Interest status, dedicated to scientific research and sciencebased innovation. As an institution operating at the interface of the academic and business worlds, bringing closer together academia, companies, public administration, and society, INESC TEC typically applies the knowledge and results generated as part of its research in technology transfer projects, seeking value creation and social relevance. INESC TEC vision is to be a leading Science and Technology Institution at international level in the domains of Computer Science, Industrial and Systems Engineering, Power and Energy, Communications, Robotics and Bioengineering. As an Associated Laboratory, INESC TEC's contributions to S&T policy have been many in its 35 years of history. It contributes to the building blocks of the S&T system, highly qualified talent in critical STEM areas, technology infrastructures shared with the S&T community, and communication with students and the general public, while developing international partnerships. INESC TEC actively participates in four Portuguese Research Infrastructures of Strategic Interest besides other well-equipped laboratories. INESC TEC activities are aligned with the European priorities that include the European Green Deal and the Europe Fit for the Digital Age, as well as with the Portuguese set of research and innovation thematic areas and recently defined priorities related to Digital Transition, Climate Transition, and Resiliency.

WEBSITE: INESCTEC.PT

Faculty of Engineering [FEUP] +351 222 094 000 \ info@inesctec.pt

COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

6.5 M € (U.Porto ecosystem: 3.3 M €)

INTEGRATED RESEARCHERS

334 (U.Porto ecosystem: 237)

FCT EVALUATION

Very Good

KEYWORDS

ICT from Electrical & Computer Engineering to Physics Industrial Management & Innovation Multidisciplinarity Science innovation & Technology Transfer

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Advanced Computing Systems Applied Photonics Artificial Intelligence & Decision Support Biomedical Engineering Research Enterprise Systems Engineering High-Assurance Software Human-Centered Computing & Information Science Industrial Engineering & Management Innovation, Technology & Entrepreneurship Power & Energy Systems Robotics & Autonomous Systems Robotics in Industry & Intelligent Systems Telecommunications & Multimedia



INSTITUTE OF TROIN STRUCTURES AND CONSTRUCTION

The Institute of R&D in Structures and Construction was created in 2015, stemming from the merging of two previous research units both settled at the Civil Eng. Department of FEUP. The general objective of CONSTRUCT is the development of research on Safety, Serviceability, Durability, Economy, Sustainability of Comfort and Engineering constructions. To accomplish this goal, research involves the characterization of materials, the characterization of the mechanical and environmental actions on the the development constructions. experimental studies on the behaviour of elements and constructions, the monitoring of the life-cycle of constructions, including their execution phase, the development theoretical studies by analytical or numerical modelling of the behaviour of constructions, and the development of products, such as, materials, construction processes. technologies, methods of analysis, tests and software, related with characterization, analysis, design, building, monitoring and of management the constructions. CONSTRUCT intends to implement its research activities in accordance to the development strategy of the Northern Region where it is located and in accordance with the goals of international networks in which a strong participation is presently active.

WEBSITE: FE.UP.PT/CONSTRUCT

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COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 873 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 46

FCT EVALUATION

Very Good

KEYWORDS

Built & Historical Heritage & City Eco-efficient materials & Durability Risk, Safety & Comfort Transport & Energy



RESEARCH GROUPS | LINES

Geotechnics (GEO)
Management & Technology of Building
Construction (GEQUALTEC)
Laboratory for the Concrete Technology
& Structural Behaviour (LABEST)
Laboratory of Seismic & Structural
Engineering (LESE)
Laboratory of Physics of Constructions
(LFC)
Laboratory of Vibrations & Monitoring
(VIBEST)

INSTITUTO DE TELECOMUNICAÇÕES -POLTO

The Institute of Telecommunications (IT) is a private, not-for-profit, multi-site association of six universities, one polytechnic institute and two private companies, having a wide national coverage. Established in 1993, was granted the statute of Associated Laboratory in 2001. IT is actively involved in fundamental and applied research both at national and international levels. IT also plays its role towards public society with public awareness initiatives, knowledge transfer to industry, and by providing consulting services on a non-competing basis. Scientific expertise in IT, from which follow its main research and education activities, spans the Thematic Lines: Wireless Technologies, Optics and Photonics, Information and Data Science, Networks and Services, and Basic Sciences and Enabling Technologies.

WEBSITE: IT.PT

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COORDINATOR AT U.PORTO

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RESEARCH UNIT FCT FUNDING (20/23)

5.7 M € (U.Porto ecosystem: 100 K €)

INTEGRATED RESEARCHERS

338 (U.Porto ecosystem: 9)

FCT EVALUATION

Very Good

KEYWORDS

Applied Mathematics Applied Physics Electronics, Instrumentation & Measurements Telecommunications

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

DaRTES
Porto Interactive Center (PIC)
Shannon Lab



LAETA ASSOCIATE LABORATORY OF ENERGY, TRANSPORTS AND AERONAUTICS

Created in 2006, LAETA is an Associate Laboratory in the fields of Energy, Transportation and Aerospace, which also addresses other emerging fields where its scientific knowledge, grounded Mechanical, Materials and Aerospace Engineering, can be applied. LAETA's research, ranked as Excellent in the last evaluation performed by FCT, relies on a combination of faculty members from several universities and polytechnic institutes, researchers, PhD and MSc students, and staff. LAETA supporting includes management institutions (INEGI / University of Porto, IDMEC / IST-University of Lisbon, ADAI / University of Coimbra and AEROG / University of Beira Interior), and participating institutions that include other universities, polytechnic institutes, hospitals and municipalities. The core of LAETA is a dynamic, connected community of Integrated Researchers (IRs) and 255 PhD students, located in all regions of continental Portugal. This human capital has been of paramount importance for LAETA's success in the different dimensions of its activity, namely research & development, innovation & technology transfer, knowledge delivery & advanced training, and the support to policymaking and implementation.

WEBSITE: IDMEC.IST.UTL.PT/LAETA/

Faculty of Engineering [FEUP] | +351 229 578 710 | inegi@inegi.up.pt

COORDINATOR AT U.PORTO

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RESEARCH UNIT FCT FUNDING (20/23) 5.9 M € (U.Porto ecosystem: 2.6 M €)

INTEGRATED RESEARCHERS

276 (U.Porto ecosystem: 123)

FCT EVALUATION Excellent

KEYWORDS

Aerospace Engineering Energy Mechanical Engineering Transports Technology

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Biomechanics Energy, Environment & Sustainability Intelligent Systems & Control Materials & Manufacturing Processes Structures & Mechanical Systems



LEDADE

LABORATORY FOR DROCESS Engineering, environment, **biotechnology and energy**

LEPABE is a research unit of the Faculty of Engineering of the University of Porto. Its mission is to develop innovative processes and products to respond effectively to societal challenges, using the basis chemical and biological engineering improve the quality of life, in a sustainable and safe way. In fact, LEPABE's activities try to respond to the society's need for new products and energy through sustainable processes, combining eco-efficiency health concerns with economically sound design and operation. LEPABE's goals focus research excellence, industrial competitiveness and societal challenges, particularly: Strengthen the excellence in Increase knowledge technologies, focusing in advanced manufacturing and processing, advanced materials. nanotechnologies and biotechnology, to enhance regional competitiveness of industry of the Northern region of Portugal; Provide solutions to help address major concerns shared by society, making renewable energy more affordable, ensuring food safety, solving emergent problems affecting water and air quality and efficiently recycling industrial residues. Beyond further increasing its international recognition through increasing participation leadership of European consortia, LEPABE is also strongly committed with advanced training of young researchers, both in academic and industrial contexts. Its main achievements include: (i) international recognition in Renewable Energy - harvesting, conversion and storage, (ii) remarkable polymer product development and forestderived materials in collaboration with excellence industries, (iii) in research; (iv) participation in international and national networks of reference in nanotechnologies and health and interfacial cooperation areas environment, modelling and health to tackle emergent problems. LEPABE is active partner in promoting public science policies and for this integrates the recently created ALiCE, Associate Laboratory in Chemical Engineering in a consortium comprised of U.Porto R&D Units: LEPABE, CEFT and LSRE-LCM.

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COORDINATOR

Luís Miguel Madeira

RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 2.1 M €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 79

FCT EVALUATION

Excellent

KEYWORDS

Biotechnology Energy Environment Materials Engineering Nanotechnology Processes Engineering

ASSOCIATE LABORATORIES



WEBSITE: FE.UP.PT/LEPABE

Faculty of Engineering [FEUP]

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RESEARCH GROUPS | LINES

Biotechnology Environmental Sciences & Technologies Process Systems Engineering Processes, Products & Energy Supramolecular Assemblies

LIRCC ACTIFICIAL INTELLIGENCE AND COMPUTER SCIENCE LABORATORY

LIACC is a R&D unit established in 1988, with headquarters at FEUP and a hub at FCUP but which includes researchers from several other higher education institutions such as P.Porto, UFP, IPVC, ISMAI and UAçores. it includes 25 integrated members, 40 collaborators with a PhD and 40 PhD students. The laboratory pursues research mainly on Artificial Intelligence and Computer Science with emphasis on: Complex Systems, Machine Learning, Data Science, Autonomous Agents, Intelligent Simulation, Intelligent Robotics, Processing, Natural Language Performance Computing, Declarative Programming and Software Engineering. The R&D at LIACC is developed according to the following Thematic Lines: Health Wellbeing; Intelligent Cities and Mobility; Innovative and Sustainable Industry/Services; Public Administration and Governance; Infrastructures and Highly Connected Society; Entertainment/Games. The funding and quality of the R&D activities of LIACC has been continuously increasing, taking profit from different sources of funding (FCT, Portugal2020, European, Industry and Public Administration) and attracting new talented researchers. LIACC members are also strongly committed to supervise quality research work leading to very successful PhD and MSc LIACC offers excellent research conditions including newly acquired highperformance computers that extend the computational infrastructure available for its researchers supporting a wide variety of Al projects demanding computer-intensive processes. LIACC offers the appropriate environment for a rich, cooperative, and creative atmosphere demanded by any worldclass research.



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COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 734 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 12

FCT EVALUATION

Excellent

KEYWORDS

Artificial Intelligence
Computer Science
Declarative Programming
Intelligent Robotics
Intelligent Simulation
Machine Learning
Multi-Agent Systems
Natural Language Processing

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Complex Systems
Intelligent Simulation
Declarative Programming
High-Performance Computing
Intelligent Robotics
Machine Learning
Natural Language Processing
Software Engineering



LSCE-LCM

LABOTATORY OF SEPARATION AND REACTION ENGINEERING - LABORATORY OF CATALYSIS AND MATERIALS

LSRE-LCM is a leading national R&D Unit of Chemical Engineering due to its unique approach in dealing with the complexity required to solve problems that involve the production or use of chemicals, fuel, drugs, food, and many other products. It develops cutting-edge processes, catalysts equipment for safe and sustainable energy and environment applications. The main location of LSRE- LCM is at the University of Porto, Faculty of Engineering, with an external pole at Instituto Politécnico de Leiria. The Mission of LSRE-LCM is to contribute to developing scientific and technological know-how in the Chemical Engineering areas of Separation and Reaction Processes, Product Engineering, Catalysis and Carbon Materials, Thermodynamics Environmental Engineering. The approach of LSRE-LCM relies on opening new interfaces into strategic fields such as bio-based and natural products, nanotechnology, and synthetic fuels to strengthen its position in these areas. LSRE-LCM integrates the recently created ALICE, Associate Laboratory in Chemical Engineering.

WEBSITE: LSRE-LCM.FE.UP.PT

Faculty of Engineering [FEUP] +351 220 413 601 | Isre-Icm@fe.up.pt

COORDINATOR AT U.PORTO

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RESEARCH UNIT FCT FUNDING (20/23)

1.9 M € (U.Porto ecosystem: 1.7 M €)

INTEGRATED RESEARCHERS

62 (U.Porto ecosystem: 51)

FCT EVALUATION

Excellent

KEYWORDS

Catalysis & Carbon Materials Cyclic Separation & Reaction Processes Product Engineering Thermodynamics & Environment

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Catalysis & Carbon Materials Cyclic Adsorption Reaction Processes Product Engineering Thermodynamics & Environment





CIAFEL TESEATCH CENTTE IN PHYSICAL ACTIVITY, HEALTH AND LEISUTE



CIAFEL is a Health Science Research Unit and has as its home institution the Faculty of Sport Sciences and Physical Education at the University of Porto, Portugal. CIAFEL aims to promote basic and applied research on health-related physical activity field, valuing the relationships between physical activity, health and leisure. It promotes research, community intervention and continuous education. CIAFEL comprise expert consultants in the development of global and national strategies, policies, and as office bearers and national representatives on international and national professional organizations. CIAFEL has implemented a number of very good community-based programs as well as some clinical trials.

WEBSITE: CIAFEL.FADE.UP.PT

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COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 836 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 20

FCT EVALUATION

Very Good

KEYWORDS

Aging Behaviour Exercise Health Interventions Population

CINTESIS CENTIE FOR HEALTH TECHNOLOGY AND SECUICES CESEACCH

CINTESIS is a multicenter Research Development Unit (R&D) whose mission is to find answers and solutions, in the short term, to relevant health problems, without ever losing sight of the cost-benefit ratio. The unit is based on an organization designed to interactions maximize research and complementarity of expertise among its 27 groups in an environment of efficiency and high performance. Its 704 members (295 integrated PhDs) have flexible а decentralized management structure, with administrative and technical staff coming from its 8 local management poles (5 universities: the University of Porto, Nova University of Lisbon, University of Aveiro, University of Algarve, University of Madeira; and 1 Polytechnic Institution: Nursing School of Porto); and 46 partner institutions (29 Higher Education institutions, hospitals/health institutions and 5 health companies). CINTESIS is the largest unit of the four that make up the Associate Laboratory RISE - Health Research Network, whose mission is to strengthen health research from the pre-clinical and clinical stages to the community level, bringing together Universities and health care providers under the objectives of the national policy for Science and Technology. CINTESIS aims to promote and integrate basic, clinical, and research accelerate applied to translational research cycle, namely through improving technology transfer to health and healthcare innovation sectors. It maintains with relations many international institutions tο promote innovative, interdisciplinary, and clinically relevant scientific research in health prevention, diagnosis, management, and treatment. CINTESIS members have launched 8 spin-offs implemented strategic actions promote knowledge transference. As a result, CINTESIS achieved research partnerships with private and public sectors (Glintt, Promptly, Marand, Veratech, Euroscom, AgentScape, Gnomon, Ramirez, Central Carnes, Frulact), research services (e.a. Health Cluster Portugal, Novartis, Sanofi Pasteur, UNICER, Astrazeneca, Praxair, OM Pharma, IPO-Porto) and academic entrepreneurship (e.g. U.Porto Spin-Off seal).





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COORDINATOR AT U.PORTO

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RESEARCH UNIT FCT FUNDING (20/23) 3.3 M € (U.Porto ecosystem: 2.5 M €)

INTEGRATED RESEARCHERS 295 (U.Porto ecosystem: 117)

FCT EVALUATION

Very Good

KEYWORDS

Ageing & Neurodegenerative Diseases Clinical and Translational Research Decision & Information Technologies Health Data Nursina Pharmacotherapy Pharmacovigilance Preventive Health & Societal Challenges Primary Health Care

ASSOCIATE LABORATORIES



Health Research Network From the Lab to the Community

RESEARCH GROUPS | LINES

AgeingCluster Artificial Intelligence for Health Care Biomolecular Medicine and & Computational Simulation Biostatistics & Intelligent Data Analysis Cardiovascular Sciences Challenges and Strategies in Health Research Clinical Nutrition & Disease Programming Cognitive Neurosciences Critical Care & Emergency Medicine Evidence-Based Decision Making, Research Synthesis and Health Technology Assessment Geriatrics & Mental Health Health for All Health Information Systems & Electronic Health Records Health Technology Assessment in Gastrointestinal Oncology Healthcare Management & Ethics Innovation & Development in Nursing Medical Microbiology Neuronal Degeneration & Regeneration Mental Health Care and Research Neuroimaging in Psychiatry &Dementia Oncologic Pharmacotherapy Patient-centered Innovation & Technologies Primary Health Care Research Secondary Data for Healthcare Research Signal Processing Applications Technologies for Education & Simulation in Healthcare Therapeutics, Pharmacovigilance & Hypertension Diagnosis

medinup centre for drug discovery and innovative medicines

MedInUP is a cross-faculty resource hosted by the University of Porto, making use of existing infrastructures and top-rated resources, bringing together scholars with scientific from a broad spectrum Pharmacological Sciences and Biomedicine. The MedInUP major goal is to identify multidisciplinary disease-oriented research projects leading to cutting edge R&D programmes in drug discovery to bolster pharmaceutical innovation and personalized medicine. This is grounded on synergies created for long between core departments. MedInUP constitutes a highly complementary unit that combines a basic science approach with clinical expertise to address fundamental questions on human diseases. A major strength is the close interaction with major local hospitals (Centro Hospitalar São João and Centro Hospitalar do Porto / Hospital de Santo António), the Institute of Public Health of University of Porto, and a network of clinical research groups PtCRIN (Portuguese Clinical Research Infrastructure Network).

WEBSITE: MEDINUP.PT

School of Medicine and Biomedical Sciences [ICBAS] \ +351 220 426 700

COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 434 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 23

FCT EVALUATION

Good

KEYWORDS

Biomarkers & Translational Medicine Cell Signalling & Bio-imaging Drug Discovery & Innovative Medicines



RESEARCH GROUPS | LINES

Cell Therapy & Regenerative
Pharmacology
Drug Discovery, Biomarkers &
Translational Medicine
Drug Screening in Cellular & Animal
Models
Drug Targeting in Inflammation & Pain
Innovation in Neuropsychiatric &
Cardiometabolic Therapies
Integrative Cell Signalling & Functional
Bio-imaging

CIFIED CENTIE FOR SPORTS RESEARCH, EDUCATION, INDOUBTION AND INTERVENTION IN SPORT



CIFI2D is a research unit hosted in the Faculty of Sport of the University of Porto. CIFI2D develops its activity in the field of Sport Sciences and its interfaces and aims to carry out research and training of researchers in this field, as well as transfer and apply the existing knowledge for the different contexts and crafts of Sport. In this sense, it performs: research in several areas of Sport and related; training of postgraduate students, specialists and technicians; consulting, evaluation and diagnosis in several areas; and services and interventions in the community. The interests of CIFI2D are diverse, ranging from cultural and social issues that shape Sport in its scope, to structural and functional issues associated with the organization, management and evaluation of the specific teaching/learning processes of Sport in different contexts, not forgetting interactions between the actors. The CIFI2D is also concerned with issues related to the key players in the sports process, seeking to study the variables that allow maximizing the levels of performance, satisfaction and well-being of participants in the sports scene, but also the extent and depth of the benefits of such participation.

WEBSITE: FADE.UP.PT/CIFI2D/

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COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 382 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 45

FCT EVALUATION

Good

KEYWORDS

Education Health Performance Sport

RESEARCH GROUPS | LINES

Biomechanics Coaching Education Game & Performance Analysis Health Physiology Psychology Sport

I3S INSTITUTE FOR RESEARCH AND INNOVATION IN HEALTH





9 INDUSTRY, INNOVATION AND INFRASTRUCTURI

The i3S is a Research Unit resulting from a consortium between IBMC, INEB, IPATIMUP and UPORTO, creating an environment of real breakthrough research and translation of discoveries into the clinic. i3S was rated "Excellent" (2019), and it is dedicated to research and innovation in basic, applied and translational Health and Life sciences. It focuses on 3 research programs addressing challenges cancer. infectious maior as diseases, disorders neurologic regenerative medicine. The transdisciplinary nature of the programs allows to address questions on the molecular and cellular basis of living systems, mechanisms underlying disease and the development of novel tools for screening, diagnostic and therapeutic strategies. i3S has 74 research groups, around 900 researchers, publishes about 650 papers a year, has 3 Clinical and Diagnostic platforms provide cancer, SARS-CoV-2 neurodegenerative diseases clinical services to the community, 31 active patents, about 100 national and international ongoing projects, and 13 scientific platforms, which provide access to advanced equipment for research in several fields. i3S has several transversal units that assure all management, financial and communication aspects to successfully implement R&D projects. Furthermore, i3S fosters continuous advanced training for scientists and implements annual educational and outreach activities to close the gap between science and society.

WEBSITE: I3S.UP.PT

Institute for Research and Innovation in Health [i3S] \ +351 220 408 800 \ director@i3s.up.pt

COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 12.5 M €

INTEGRATED RESEARCHERS

439 (U.Porto ecosystem: 427)

FCT EVALUATION

Excellent

KEYWORDS

Bioengineering
Cancer
Cell Biology
Host Interaction & Response
Infection & Immunity
Neurobiology & Neurologic Disorders

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Biofabrication Biomolecular Structure & Function Cancer Drug Resistance Cancer Metastasis Cancer Signalling & Metabolism Cell Activation & Gene Expression Cell Biology of Bacterial Infections Cell Division & Genomic Stability Cell Division Mechanisms Cell Growth & Differentiation Chromosome Instability & Dynamics Cvtoskeletal Dvnamics Cytoskeletal Regulation & Cancer Differentiation & Cancer Epithelial Interactions in Cancer Epithelial Polarity & Cell Division Expression Regulation in Cancer Fish Immunology & Vaccionology Gene Regulation Genetic Diversity Genetics of Cognitive Dysfunction Glial Cell Biology Glycobiology in Cancer Hematopoiesis & Microenvironments Host Targets of Infection Host-Parasite Interactions Immune Regulation Immune Sensing & Signaling Dynamics Immunobiology Immunology Cancer Glycomedicine Intercellular Communication & Cancer Iron & Innate Immunity Laboratory Animal Science Macromolecular Structure

Metabesity Microbes & Cancer

Microenvironments for New Therapies Molecular Biomaterials Molecular Microbiology Molecular Neurobiology Molecular Parasitology NanoBiomaterials for Targeted Therapies Nanomedicines & Translational Drug Delivery Nephrology & Infectious Diseases R&D Nerve Regeneration Neuro & Skeletal Circuits Neuroengineering & Computational Neuroscience Neurolipid Biology Neuronal Networks Organelle Biogenesis & Function Pain Neurobiology Parasite Disease Phenotypic Evolution Population Genetics & Evolution Reproductive Genetics & Embryofetal Development Stem Cells & Neurogenesis Stem Cells in Regenerative Biology & Repair Structural Biochemistry Synapse Biology Thymus Development & Function Translational NeuroUrology Tumour & Microenvironment Interactions UniGENe Vertebrate Development & Regeneration Yeast Signalling Networks

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EDIUNIT EDIGEWIORODA research unit -INSTITUTE OF PUBLIC HEALTH OF THE UNIVERSITY OF DOCTO

EPIUnit was born from the need to place research in Epidemiology on the path of outstanding science developed in Portuguese R&D units. EPIUnit is nurtured by a multidisciplinary team of researchers that covers population, clinical and translational aspects of Epidemiology, in a research environment with a strong metric and qualitative component. It aims at elucidating preventable causes of non-communicable diseases. In particular, the occurrence of such common scourges as obesity, diabetes, heart failure, cancer, musculoskeletal pain and psychiatric and neurological diseases. Infectious diseases are also a focus of research, namely, HIV, tuberculosis, and the dynamics of emerging pathogens. It aims the understanding on how socioeconomic, demographic, psychological, behavioural and environmental characteristics intertwine in producing health experiences and health outcomes of individuals and populations and to explore diverse modes of governance, health regulation and clinical practices based on new public health concepts, such as solidarity, public engagement and literacy. So far, EPIUnit has been able to consolidate epidemiological unique research infrastructures: Population cohorts Biobank, to design and coordination of the first National Dietary and Physical Activity Survey, to produce scientific evidence for position socioeconomic as a maior determinant of health and mortality, and to produce about 300 publications/year in international scientific journals.

WEBSITE: ISPUP.UP.PT/EN/ **EPIDEMIOLOGY-RESEARCH-UNIT-EPIUNIT**

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COORDINATOR

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INTEGRATED RESEARCHERS

90 (U.Porto ecosystem: 48)

FCT EVALUATION

Excellent

KEYWORDS

Epidemiology Life course Outcomes research Public Health

ASSOCIATE LABORATORIES



Institute of Public Health [ISPUP]

RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 1.5 M €







RESEARCH GROUPS | LINES

Genetic, Behavioural & Environmental Determinants of Health & Disease Life Course Research & Healthy Ageing Patient & Population Outcomes Research Syndemics, Health Inequalities & Vulnerable Populations

UNIC CALDIOUASCULAL LESEALCH AND DEUELOPMENT CENTLE

UnIC was created in 1994 with the purpose of filling the gap in translational research in cardiovascular disease (CVD). CVD is a highly relevant medical and socio-economic research topic since it is the first cause of death globally and one of the main causes of impaired quality of life, particularly amongst the elderly. Since its inception, UnIC has been able to contribute substantially to research scientific and technological to development in CVD, namely by randomized controlled clinical trials and prospective studies, well as as technological development and biotechnology application in translational research UnIC optimize includes patient care. researchers from several Departments of the Faculty of Medicine of the University of Porto, Centro Hospitalar e Universitário de S. João, Centro Hospitalar Gaia/Espinho and other Hospitals, combining basic and clinical sciences to achieve a solid translational and integrative perspective, in a bench to bedside and back again approach. Thus, UnIC relies on the strong collaboration between researcher physicians from multiple medical specialties related to cardiovascular medicine such as cardiology, cardiac and vascular surgery, internal medicine, endocrinology anesthesiology, and biologists, biochemists, engineers, statisticians, and CVD professionals fully committed tο research. A dynamic research structure was established. fosterina national international collaborations, either academia or with industry, which enables a self-sustainable strategy. UnIC is also devoted to scientific initiation of young students and advanced education, training graduation students and providing last year graduation or master degree projects. Furthermore, UnIC hosts several postgraduation courses as well as the Doctoral Program in Cardiovascular Sciences and the Master Degree in Cardiovascular Pathophysiology. Τо improve population CVD awareness on and cardiovascular research. UnIC is committed to outreach and scientific dissemination actions, through its participation in educational projects directed to the public and partnerships with local authorities.



WEBSITE: UNIC.MED.UP.PT

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COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 1.3 M €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 51

FCT EVALUATION

Excellent

KEYWORDS

Cardiovascular Diseases
Cardiovascular Pathophysiology &
Therapeutics
Clinical & Translational Research
Heart Failure
Medical & Postgraduate Education

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Heart Failure
Ischaemic Coronary Heart Disease &
Atherosclerosis
Myocardial Remodelling & valvular
Heart Disease
Pulmonary Hypertension & Right
Ventricular Function
Technological & Applied
Cardiovascular Research

UMID UNIT FOR MULTIDISCIPLINARY RESEARCH IN DIOMEDICINE



UMIB is based at the School of Medicine and Biomedical Sciences (ICBAS), University of Porto and the Centro Hospitalar Universidade do Porto (CHUP). UMIB ultimate main aim is to achieve innovation and scientific progress to improve human health, focusing on the study of high impact diseases and disorders based on its prevalence, morbidity or mortality. UMIB research is mostly triggered by the need to find answers to questions arising from every day clinical practice and uses a translational approach to unravel the unknowns towards improved health-care outcomes. UMIB is dedicated to translation and clinical research epidemiology, disease mechanisms, identification of biomarkers and targeted therapies for human diseases grounded on four main pillars: Hereditary and Genetic Diseases; Metabolic, Cardiovascular and Endocrine Disorders; Immunity, Infection and Inflammation; Oncology and Oncobiology. Despite each research team is dedicated to the study of diseases of epidemiological relevance in their specific area of interest, there is a considerable overlap and some projects result from a more research transversal approach that feeds from various disciplines and benefits from collaboration of the different research teams within the unit. As a whole, UMIB covers a broad spectrum of medical conditions through a translational approach dedicated to speeding the process clinical refinement.

WEBSITE: ICBAS.UP.PT/UMIB/

School of Medicine and Biomedical Sciences [ICBAS] \ +351 220 428 103

COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 946 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 56

FCT EVALUATION

Very Good

KEYWORDS

Mechanisms of Disease Multidisciplinar Research Personalized Medicine Prognostic Biomarkers Targeted Therapies Translational Medicine

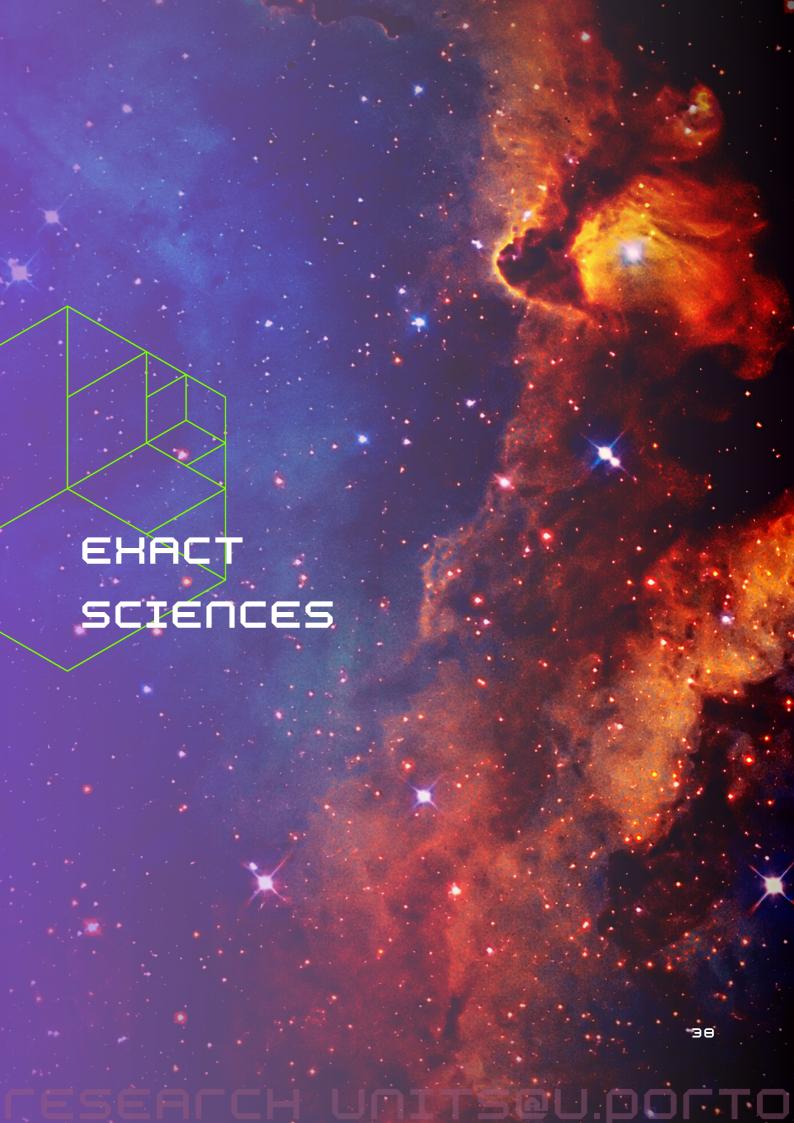
ASSOCIATE LABORATORIES



LABORATORY FOR INTEGRATIVE AND TRANSLATIONAL RESEARCH IN POPULATION HEALTH

RESEARCH GROUPS LINES

Autoimmunity & Neurosciences
Biology & Genetics of Reproduction /
Molecular & Celular Medicine (MCM)
Cardiovascular Research
Clinical & Experimental Human
Genomics
Endocrine & Metabolic Research
Immunology of Infection
Nephrology, Dialysis & Transplantation
Oncology Research



CF-UM-UP PHYSICS CENTIES OF THE UNIVERSITIES OF MINHO AND DONTO

The Physics Center of Minho and Porto Universities (CF-UM-UP) began in 2014 and comprises the Centro de Física Universidade do Minho (CFUM) and the Centro de Física do Porto (CFP), two formerly existing research units, recognized and evaluated by the FCT. The two Centres agreed in joining their forces and forming a comprehensive research centre in the broad area of Pure and Applied Physics. This union is supported by a Protocol signed by the Rectors of two universities. The partnership aims at building new strategies in order to perform high quality research, both fundamental and applied, in Physics and adjacent areas. CF-UM-UP's scientific activity involves both theoretical and experimental studies, as well as development for applications. The main goal of the CF-UM-UP as a whole is to perform internationally competitive research in several areas of Physics, fundamental and applied, linked to other disciplines of natural sciences and engineering, with strong international links and relevant, as far as possible, at the local level. CF-UM-UP has a critical mass of highly qualified researchers and aims at keeping equilibrium between applied and fundamental research and being the base for advanced training in Physics and adjacent areas, in the North of Portugal.

WEBSITE: CF-UM-UP.PT

Faculty of Sciences [FCUP] +351 220 402 700

COORDINATOR AT U.PORTO

Eduardo Castro | evcastro@fc.up.pt

RESEARCH UNIT FCT FUNDING (20/23)

1.9 M € (U.Porto ecosystem: 373 K €)

INTEGRATED RESEARCHERS

72 (U.Porto ecosystem: 11)

FCT EVALUATION

Very Good

KEYWORDS

Condensed Matter Physics Materials & Nanostructures Functional Surfaces & Coatings Molecular Physics & Biophysics Optics & Vision Sciences High Energy Physics, Gravitation & Cosmology

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Assessment & Enhancing Visual
Performance
Physics of Quantum Materials &
Bionanostructures
Functional & Smart Materials & Surfaces
For Advanced Applications
Quantum Physics & Fields in High
Energy & Condensed Matter Theory

CICGE CENTIE FOI TESEAICH IN GEOSPACE SCIENCE

In 1975, researchers from the Astronomical Observatory from the Porto University decided to start a Centre of Astronomy. Linked to the course on Survey Engineering, it inherited a series of scientific instruments dedicated to measuring local time and astrometry. In 1979, through a joint collaboration with France, António Magalhães, a researcher from this unit, built the first Portuguese radio telescope. With the advancement of space exploration, the centre started to include researchers from areas linked to Earth Observation, and in 1998 the unit name was changed to Centre for Research in Geo-Space Sciences in order to reflect the broadening of its scope. Its main mission is to actively participate in research applied to space sciences and their application to the Earth environment. Active areas of research at CICGE include Heliophysics, Remote Sensing, Geographic Information Systems, and Spatial Biology. CICGE works towards development of national capacities and skills to study the Earth and the near-Earth environment through scientific research, innovation, and education of young students. CICGE Portuguese aims participating and leading national and international programs and projects, securing the participation of Portugal in Situational Awareness (SSA) and Earth Observation (EO) programs.

WEBSITE: FC.UP.PT/CICGE

Faculty of Sciences [FCUP] \ +351 220 402 700

COORDINATOR

Dalmiro Jorge Filipe Maia dmaia@fc.up.pt

RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 178 K €

INTEGRATED RESEARCHERS

12 (U.Porto ecosystem: 3)

FCT EVALUATION

Good

KEYWORDS

Earth Observation Heliophysics Natural Risk Assessment Radioastronomy Space Situational Awareness Spatial Biology



ISMAI Laboratory Natural Risk Assessment Laboratory Solar Radioastronomy & Heliophysics Laboratory Spatial Biology Laboratory







CIQUP CESEACCH CENTCE IN CHEMISTCY

CIQUP is a research center in chemistry located at the Department of Chemistry and Biochemistry of University of Porto. It is mainly an experimental R&D unit, with an established reputation in Portugal. Solid international acclaim has been obtained for its relevant contributions in: molecular and supramolecular thermodynamics; electroanalytical and interfacial chemistry; and bioluminescence: chemical/biochemical sensing; nanochemistry and nanomaterials; ionic liquids; medicinal chemistry; physical chemistry organized systems; excited state reactivity dynamics. CIQUP is also committed to chemical education and dissemination and promotion of research findings. Since its foundation, about four decades ago, CIQUP has been continuously evolving to reach its present status as a broadly recognized research unit of excellence in chemistry. The mission of CIQUP is to attain excellence in chemistry, both in research activity and in advanced training of human resources and to contribute to disseminate chemical knowledge.

WEBSITE: FC.UP.PT/CIQUP

Faculty of Sciences [FCUP] \ +351 220 402 521 \ ciq@fc.up.pt

COORDINATOR

Luís Belchior Santos \ lbsantos@fc.up.pt

RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 1.5 M €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 52

FCT EVALUATION

Excellent

KEYWORDS

Bioactive Compounds
Drug Discovery
Interfaces
Nanostructuration
Science Communication
Thermodynamics

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Education, Science Communication & Society Medicinal Chemistry Molecular & Supramolecular Thermodynamics Nanostructures & Self-organization Physical Analytical Chemistry & Electrochemistry

























CMUP CENTIE OF MATHEMATICS OF THE UNIVERSITY OF PORTO

CMUP is among the leading research centres in Portugal. It has been classified as "Excellent" in all evaluation rounds of the funding agency (FCT) since 2004, having received the maximum possible score in all items of FCT's last assessment. CMUP has active collaborations with institutions worldwide and CMUP members regularly obtain external funding for a significant number of research projects. CMUP has recently integrated the Intelligent Systems Associate Laboratory (LASI), a consortium of research units with expertise in artificial intelligence and data science. CMUP has 64 integrated researchers (with PhD), including 3 FCT researchers, 8 contract researchers and 5 postdoctoral fellows. CMUP supports 3 PhD programs and hosts roughly 20 PhD students. CMUP promotes: regular seminars and visits by outside researchers; work visits to other research institutions and participation in scientific meetings; the hosting meetings; international stimulating а for scientific environment post-Doc researchers and PhD students.

WEBSITE: CMUP.PT

Faculty of Sciences [FCUP]
+351 220 402 106
cmup.secretariado@fc.up.pt

COORDINATOR

Samuel António Dias Lopes \ slopes@fc.up.pt

RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 1.8 M €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 64

FCT EVALUATION

Excellent

KEYWORDS

Applied Mathematics Artificial Intelligence Dynamical Systems Geometry Mathematics Semigroups

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Algebra Analysis Geometry Probability & Statistics 2 ZERO
HUNGER

SING
A GOOD HEALTH
AND WELL-BEING

4 QUALITY

4 QUALITY

T AFFORDABLE AND
T CLEAN ENERGY

P AND MERASTRUCTUR

9 INDUSTRY, INNOVATION

10 REDUCED

10 REDUCED

11 REQUALITIES

IA INSTITUTE OF ASTROPHYSICS AND SPACE SCIENCES

IA is a research infrastructure with a national dimension, embodying a bold vision for the development of Astronomy, Astrophysics and Space Sciences in Portugal. It results from the merging, in 2015, of the two most prominent research units in the field in Portugal: the Centro de Astrofísica da Universidade do Porto (CAUP) and the Centro de Astrofísica e Astronomia da Universidade de (CAAUL). Currently the institute is the largest research unit of this area in Portugal, being responsible for the majority of the national productivity in international ISI journals in the area of Space Sciences. This is one of the scientific areas with the highest relative impact factor and highest average number of citations per article for Portugal. The mission of the IA is to foster research with the highest impact in the field of astrophysics and space sciences and to support teaching and training of young researchers and students in close collaboration with the Universities of Lisbon, Porto and Coimbra. It also aims to promote wide-ranging science communication activities that enhance public understanding of the Universe and our place in it, as well as awareness of the importance of research in this field.

WEBSITE: IASTRO.PT

Centre for Astrophysics [CAUP] +351 226 089 830 | geral@astro.up.pt

COORDINATOR AT U.PORTO

Jarle Brinchmann | jarle@astro.up.pt

RESEARCH UNIT FCT FUNDING (20/23) 2 M € (U.Porto ecosystem: 1.1 M €)

INTEGRATED RESEARCHERS

65 (U.Porto ecosystem: 32)

FCT EVALUATION

Excellent

KEYWORDS

Astronomical Instrumentation & Space Systems Astronomy & Astrophysics Galaxies & Cosmology Science Communication Stars & Planets



RESEARCH GROUPS | LINES

Astronomical Instrumentation & Systems Cosmology Galaxies Planetary Systems Science Communication Towards a Comprehensive Study of Stars

IFIMUP

INSTITUTE OF PHYSICS FOR ADVANCED MATERIALS, NANOTECHNOLOGY AND PHOTONICS

IFIMUP has a long tradition internationally recognized for its fundamental research on the physics of advanced materials with significant scientific and technological impact, through the detailed, accurate and systematic characterization of a wide range of physical properties over extended ranges of temperature, magnetic and electric fields. The research activity covers the Physics of Transition Metal Oxides. Polariazable Materials, Magnetic Materials, Ferroelectrics and related Materials, Multiferroics and Magnetoelectrics, Colossal magnetoresistance compounds and Oxide Conductors. The scientific activity has also extended to the use of non-invasive spectroscopic techniques (Raman, SERS) for biomedical proposes. IFIMUP research strategy relies on the study of quantum, nanostructures and advanced materials behavior under broad ranges of temperature, intense electric/magnetic fields, high pressure, aiming their usage in energy related applications, electronics and magneto-electronics, computing and photonics. The institute has also extended experience and experimental facilities to study dynamic properties of matter namely at RF/microwave (sub-ns) and ultrafast dynamics (fs) timescales, having excellent facilities for laser pulse generation applications. IFIMUP provides excellent training in its core areas: materials and nanostructures characterization, cryogenics, high field technologies and ultrafast spectroscopies, attaining full employability in Academia and Industry.

WEBSITE: IFIMUP.UP.PT

Faculty of Sciences [FCUP] +351 220 402 362 | ifimup@fc.up.pt

COORDINATOR

João Pedro Esteves de Araújo | jearaujo@fc.up.pt

RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 871 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 30

FCT EVALUATION

Excellent

KEYWORDS

Advanced Energy Materials Extreme Condition@NECL-Nuclear Methods@ISOLDE-CERN Materials & Photonics for Biomedicine Multifunctional Nanostructures Quantum Materials Ultrafast Photonics & Spectroscopy

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Multifunctional Magnetic Materials & Nanostructures
Physics-Education & Dissemination
Polarisable Materials &
Magnetoelectric Nanostructures
Ultrafast Lasers & Magnetodynamics
Spectroscopies





LAQU/CEQUIMTE ASSOCIATED LADOCATOCY FOR QCEEN CHEMISTCY

LAQV/REQUIMTE is the Portuguese Research Centre for Sustainable Chemistry, a key of component imperative World an Sustainable Development. Following a vision of a world in which Sustainable Chemistry is used as a powerful and dynamic tool to tackle the challenges of modern life, the mission of LAQV is to initiate, advance, and promote its principles through research, networking, training, and outreach activities. In the present configuration, it spreads out from the two main national metropolitan areas of Lisbon and Porto to integrate Aveiro, Coimbra, Évora, and small sites all over the country. LAQV embraces 1088 researchers, including 484 PhD holders, who are currently pushing the boundaries of Sustainable Chemistry and Chemical Engineering to provide sustainable and practical solutions for governments, industry, and the general public. LAQV research crosses the fields of Chemical Synthesis and Catalysis, Food Science and Technology, Natural Products, Analytical Methods, Intensification of Processes and Clean Technologies, Alternative Solvents, and Smart Materials.

WEBSITE: LAQV.REQUIMTE.PT

Network of Chemistry and Technology [REQUIMTE] | laqv@requimte.pt

COORDINATOR

Baltazar Manuel Romão Castro | bcastro@fc.up.pt

RESEARCH UNIT FCT FUNDING (20/23) 8.5 M € (U.Porto ecosystem: 4.4 M €)

INTEGRATED RESEARCHERS

350 (U.Porto ecosystem: 156)

FCT EVALUATION

Excellent

KEYWORDS

Analytical Chemistry
Clean Chemical Processes
Environmentally Sustainable
Chemistry
Food Science & Technology
Materials Science
Water
Food & Energy nexus

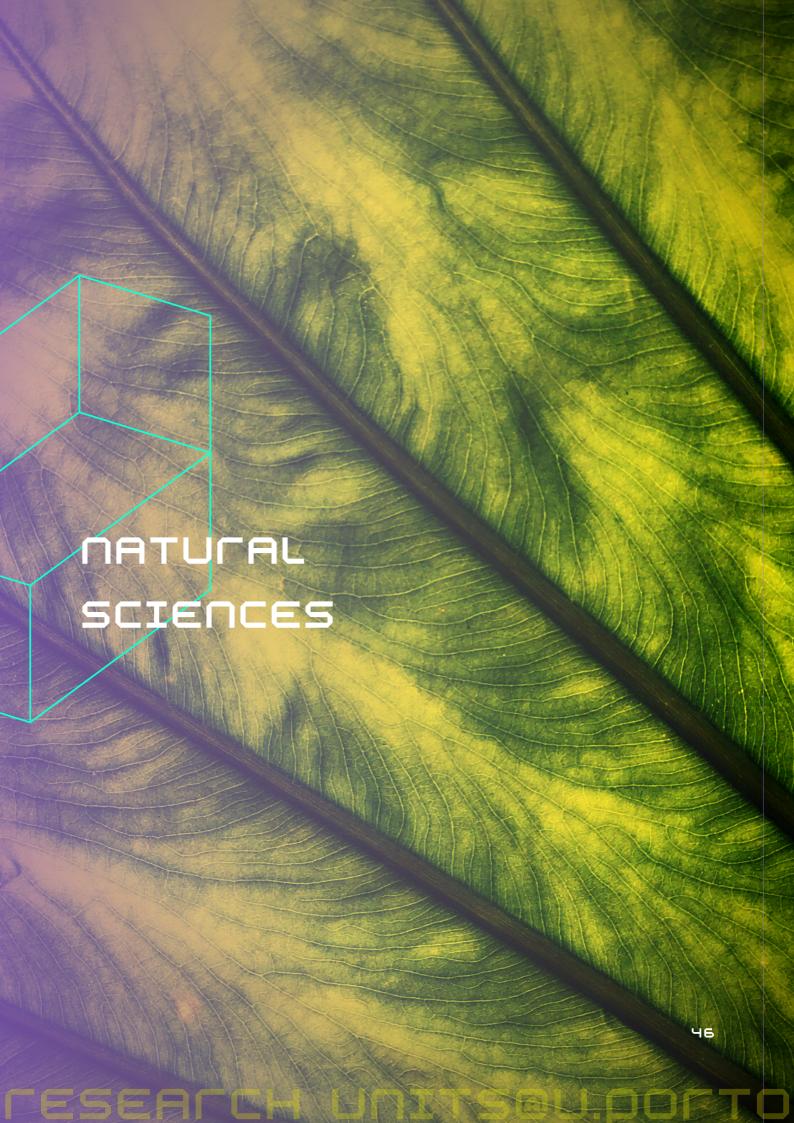
ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

(Bio)Chemistry & Omics
Analytical Development
Bio(chemical) Process Engineering
Cultural Heritage & Responsive
Materials
Environmental Chemistry
Food Quality & Technology
High Performance Computing in
Molecular Modelling
Materials for Sustainability & Wellness
Molecular Synthesis
Nanoplatforms for Life
Natural Products – Chemistry &
Bioactivity





CECA CENTIE FOR ANIMAL SCIENCE STUDIES

A multidisciplinary unit that integrates the ICETA at the University of Porto. CECA was founded in 1993, as the first unit integrating ICETA-UP, to protect public health by developing activities aiming the integration of Human Medicine and Veterinary Medicine according to the One Health Initiative. Activities related to bovine neosporosis, a reproductive disease; salmonellosis, toxoplasmosis. as zoonosis: antibiotic resistance; nerve, vascular, muscle and bone combining innovative regeneration, biomaterials with autologous/allogeneic cellbased therapies; cancer associated with helminths infection or inherited metabolic diseases beneficiate of specific domains of expertise in Microbiology, Immunology, Pathology, Oncology, Genetics, Gene Cloning & Expression allocated into four Research Groups and six thematic lines. Strategic aims: To advance into the comprehension of biological systems by accelerating biomedical research discoveries, improving new tools for diagnosis and therapeutic control of animal and human diseases, expanding the scientific knowledge base, and improving medical education in order to enhance public health efficacy.

WEBSITE: CECAICETAUP.WIXSITE.COM

Institute of Sciences, Technologies and Agroenvironment [ICETA]

+351 220 408 860 | iceta@iceta.up.pt

COORDINATOR

José Manuel Costa jose.costa@insa.min-saude.pt

RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 934 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 49

FCT EVALUATION

Excellent

KEYWORDS

Antibiotic Resistence Biotechnology of the Animal Reproduction Emergent Zoonosis Experimental Surgery & Regenerative Medicine Helminth Infections Induced Cancers

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Biotechnology in Animal Science Emergent & Zoonotic Infectious Diseases Experimental Surgery & Regenerative Medicine Inherited Metabolic Diseases in Humans & Animals

CIIMAC IN TECDISCIPLINACY CENTIE OF MARINE AND ENVICONMENTAL CESEACCH

CIIMAR is a leading research and advanced training institution of the University of Porto, working at the frontier of Ocean Knowledge and Innovation. The CIIMAR mission is to transdisciplinary research. technological development, and training, contributing to advances in scientific knowledge and sustainability of the marine and coastal environments. CIIMAR develops world-class research, providing innovative solutions towards the ocean's sustainability, driving oceans' value to tackle tomorrow's societal needs. CIIMAR fields of expertise cover three research domains: Global Changes and Ecosystem Services, Aquaculture and Seafood Quality, and Marine Biotechnology, addressing important economic and societal challenges and contributing to achieving UN Sustainable Development Goals. To deliver its mission and build a shared understanding and valorisation of the ocean, CIIMAR is strongly involved in partnerships, public engagement, and literacy. CIIMAR publishes annually more than 500 ISI publications (65% Q1) and supports over 100 PhD and MSc theses in European and national training programmes. The Centre features well-equipped facilities for research, innovation, technology transfer, training, education and services, and houses a of Technology complementary network Platforms made available to the national and international community. These include, for example, a Culture Collection (LEGE CC) of than 1000 cyanobacterial microalgae strains registered at the World Federation of Culture Collections, and an aquaculture and animal experimentation facility approved the Portuguese bу Veterinary Authority. CIIMAR integrates research infrastructures of national and European relevance: EMBRC-ERIC, EMSO-ERIC, Pt-mBRCN/MIRRI-PT, PT-OPENSREEN Bio.DATA.PT.

WEBSITE: CIIMAR.UP.PT

Interdisciplinary Centre of Marine and Environmental Research | +351 223 401 800 secretariado@ciimar.up.pt

COORDINATOR

Vitor Manuel Oliveira Vasconcelos vmvascon@fc.up.pt

RESEARCH UNIT FCT FUNDING (20/23) 4.2 M €

INTEGRATED RESEARCHERS

220 (U.Porto ecosystem: 155)

FCT EVALUATION

Excellent

KEYWORDS

Bioresources & Blue Biotechnology Circular Economy & Blue Growth Conservation & Sustainable Management of the Ocean Sustainable Aquaculture & Seafood Safety

ASSOCIATE LABORATORIES



















RESEARCH GROUPS | LINES

Biology, Aquaculture & Seafood Quality Global Changes & Ecosystems Services Marine Biotechnology

QLEEUNDOLTO research centre in SUSTAINABLE AGCI-FOOD production

The mission of GreenUPorto is to contribute scientific and technological development and to the knowledge transfer in the field of agronomy, food environmental sciences, promoting innovative and a sustained growth of this sector. In the context of a specialization, GreenUPorto is the first Portuguese Research Centre mainly focused on the horticulture value chain (with a special emphasis on fruits, vegetables, ornamentals and viticulture) both in open-air production systems and under protected cultivation. The preservation of the quality of soils and of agriecosystems is also a key priority. Benefiting from excellent infrastructures (research laboratories, plant growth chambers, sensory analysis rooms, greenhouses and agricultural fields) located in two poles of the Faculty of Sciences - Vairão and Campo Alegre -GreenUPorto joins a multidisciplinary team of integrated researchers with complementary expertise's in plant physiology, nutrition, molecular biology, postharvest, biotechnology, human nutrition, consumer perception, soil and water ecotoxicology and ecology - both at fundamental and applied level.

WEBSITE: FC.UP.PT/GREENUPORTO

Faculty of Sciences [FCUP] +351 220 402 487 | greenuporto@fc.up.pt

COORDINATOR

Ruth Maria de Oliveira Pereira ruth.pereira@fc.up.pt

RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 943 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 29

FCT EVALUATION

Excellent

KEYWORDS

Biotechnology **Environment Quality** Horticulture

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Environmental Quality & Risk Assessment Plant Biology, Production & Postharvest Processing, Valorisation, Consumption & Human Nutrition

























ICT INSTITUTE OF EARTH SCIENCES



ICT is a research unit created in 2014 with members that were previously associated to the Centre of Geology of University of Porto (CGUP) and to the Évora Geophysics Centre (CGE). ICT mission is to develop exceptionalquality research, promote technological development and support public policies in Earth Sciences. The ICT aims to contribute for the development of scientific research and national scientific poly in the earth sciences domain; to develop programmes and projects of scientific research and technological progress; to cooperate with other institutions through scientific exchanges; to publicize the results obtained by the research and by the technological development; to develop training of young researchers at the postgraduation level, and to promote scientific and technological literacy to students and general public. ICT is a multidisciplinary institution organized into six research groups covering major areas of Earth Sciences, comprising a wide range of scientific expertise and a high laboratory intensity level justified by the facilities allocated to their activities. ICT is fully committed to the 17 UN SDG (Agenda 2030) and the Portuguese RIS3 as well as in promoting gender inclusion and diversity.

WEBSITE: ICTERRA.PT

Faculty of Sciences [FCUP] +351 220 402 489 \ ict.porto@fc.up.pt

COORDINATOR AT U.PORTO

Helena Sant'ovaia Mendes da Silva hsantov@fc.up.pt

RESEARCH UNIT FCT FUNDING (20/23)

1.8 M € (U.Porto ecosystem: 622 K €)

INTEGRATED RESEARCHERS

96 (U.Porto ecosystem: 22)

FCT EVALUATION

Very Good

KEYWORDS

Atmosphere & Climate
Energy
Environment
Geoheritage & Geosciences Education
Geological Resources & Geomaterials
Lithosphere Dynamics

RESEARCH GROUPS | LINES

Atmospheric Sciences, Water & Climate Energy
Environmental Monitoring & Remediation for Sustainability
Geoconservation & Geoscience
Education
GeoResources & Geomaterials
Lithosphere Dynamic

IUPIO

PESEACCH NETWOCH IN DIODIVERSITY AND EVOLUTIONACY DIOLOGY

InBIO is an Associate Laboratory resulting from a partnership between the Research Centre in Biodiversity and Genetic Resources -CIBIO, and the Centre of Applied Ecology 'Prof. Baeta Neves' of the University of Lisbon - CEABN. InBIO's mission is to develop worldclass research in the field of biodiversity and evolutionary biology. Research at InBIO aims to advance knowledge on the origins and maintenance of biodiversity, and to apply this knowledge to address societal challenges related to climate and land use changes, environmental degradation, the loss and sustainable use of biodiversity agrobiodiversity, and the management, restoration and sustainable use of ecosystems and ecosystem services. InBIO is strongly committed to promote advanced training and to communicate and disseminate science and improve public awareness, appreciation and understanding of biodiversity. Researchers have access to complete lab facilities and field equipment, including modern genetic and genomic labs. Researchers are organized in 35 Research Groups, which are organized in 3 Thematic Lines.

WEBSITE: INBIO-LA.PT

Research Centre in Biodiversity and Genetic Resources [CIBIO] | +351 252 660 411 | cibio.up@cibio.up.pt

COORDINATOR AT U.PORTO

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RESEARCH UNIT FCT FUNDING (20/23)

5 M € (U.Porto ecosystem: 4.1 M €)

INTEGRATED RESEARCHERS

200 (U.Porto ecosystem: 156)

FCT EVALUATION

Excellent

KEYWORDS

Biodiversity
Conservation Biology
Evolutionary Biology
Genomics
Global change
Landscape Ecology & Planning

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Biodiversity, Ecology & Conservation:
LACOS21, Sociality, Ave, Bateco, BE
Bioisle, Biodeserts, Marchange, Move
Phenevol, Theoeco, Tropibio
Evolution, Genetics & Genomics:
AP, Archgen, Bioinformatics, Ecogen
Evolgen, Evochange, Humanevol,
IMED, Agrigenomics, MDE, M&ID,
Plantbio, Plantevol, PlantN
Sustainability, Ecosystems & The
Environment:
Applecol, Agrodiv, Envarch, InvasionS,
LPDM, Ecochange



UCIDIOAPPLIED MOLECULAR DIOSCIENCES UNIT

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE

17 PARTITERSHIPS
FOR THE GOALS

UCIBIO is formed by the collaborative efforts of researchers from the Universities of Porto and NOVA of Lisbon. UCIBIO combines key expertise in Chemistry and Biological Sciences with an ambitious strategic plan to maximize its national and international impact in terms of scientific productivity, advanced training and translation to society. In the national context, UCIBIO's key strength lies on its broad scope of fundamental and applied research, standing at the interface Chemistry, Biology and Engineering address pertinent questions at atomic, molecular, sub-cellular and cellular levels, including cell-to-cell interactions evolutionary population dynamics. The UCIBIO's Strategic Scientific Plan is built around 6 general goals: Produce disseminate high quality research; Increase the societal impact of the basic and applied research developed; Strengthen training programs and activities and offer new ones: Secure increased funding internationalization; Fortify the translation of Biomolecular research to industry and society; Expand communication to the general public. To fulfil its strategic goals, UCIBIO's research is centered on four Thematic Lines -Biological and Biomolecular Interactions, Drug Diagnostics, Discovery and Development, Safety in Human and Environmental Health, Nanobioengineering.

WEBSITE: UCIBIO.PT
Faculty of Pharmacy [FFUP]
+351 226 069 420 \ mpcunha@fc.up.pt

COORDINATOR AT U.PORTO
Luísa Vieira Peixe \| Ipeixe@ff.up.pt

RESEARCH UNIT FCT FUNDING (20/23) 3.4 M € (U.Porto ecosystem: 1.5 M €)

INTEGRATED RESEARCHERS
130 (U.Porto ecosystem: 33)

FCT EVALUATION

Excellent

KEYWORDS

Biomolecular Interactions
Diagnostics & Therapeutics
Drug Discovery & Development
Environmental Bioengineering
Health & Environmental Safety
Nanobiotechnology

ASSOCIATE LABORATORIES



RESEARCH GROUPS | LINES

Bioengineering (BENG)
Disease pathways & biomarkers (DPB)
Medicines & healthcare products
(MEDTECH)
Molecular microbiology & genomics
(MMG)
Nanoimmunotech (NIT)
Structural molecular biology (SMB)
Theoretical & computational
biosciences (TCB)
Toxicology (TOXI)



CEF.UP CENTIE FOR ECONOMICS AND FINANCE AT THE UNIVERSITY OF PORTO

cef.up is an independent research center located in the Faculty of Economics, University of Porto (FEP), which mission is to carry out theoretical and empirical research in the fields of Economics, Finance and Management. cef.up has 3 main strategic aims: (i) to push the frontier of knowledge by generating breakthrough theoretical, applied and methodological research on Economics and Management, recognized by its high innovative nature; (ii) to have a significant impact in academia and society by disseminating the results of the research in academic settings, political decision arenas and to a wider audience in the private and public sectors; and (iii) to educate and give state-of-the-art competencies to a new generation of young researchers. cef.up hosts the Doctoral Program of the University of Porto in Economics and the Doctoral Program of the University of Porto in Management.

WEBSITE: CEFUP.FEP.UP.PT

Faculty of Economics and Management [FEP] +351 220 460 000 \ cefup.sec@fep.up.pt

COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 1.2 M €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 48

FCT EVALUATION

Very Good

KEYWORDS

Economics
Finance
Macroeconomics
Management
Methods
Microeconomics



RESEARCH GROUPS | LINES

Macroeconomics & Growth Markets & Industrial Organization Organization & Management Theory & Methods

CEGOT CENTIE OF STUDIES IN GEØGIAPHY AND SPATIAL PLANNING

CEGOT is non-profit research development unit whose main goal is to pursue, advance and share scientific knowledge in the areas of social and economic geography and earth and related environmental sciences. More specifically, CEGOT develops state-of-the-art research in: geomorphology, climatology and hydrologic dynamics; environmental landscape dynamics; natural risks; physical support in spatial economic planning; geography; competitiveness and innovation: urban geography and spatial planning; geography; tourism; and spatial dynamics and development. The Centre is constituted of members of the Geography Departments of two host universities in Central and Northern Portugal: Coimbra, and Porto. CEGOT pursues a set of general objectives: to promote scientific knowledge, considering recent territorial dynamics and the potential of spatial planning in development to stimulate cooperation at several levels, developing projects, producing articles/other publications, organizing advanced training workshops and scientific meetings.

WEBSITE: CEGOT.PT

Faculty of Arts and Humanities [FLUP] +351 239 851 349 | geralcegot@gmail.com

COORDINATOR AT U.PORTO

Fantina Maria Santos Tedim | ftedim@letras.up.pt

RESEARCH UNIT FCT FUNDING (20/23)

960 K € (U.Porto ecosystem: 479 K €)

INTEGRATED RESEARCHERS

58 (U.Porto ecosystem: 21)

FCT EVALUATION

Very Good

KEYWORDS

Climate Change & Risks
Environment
Health & Well-being
Tourism
Spatial Planning
Urban & Territorial Development

RESEARCH GROUPS | LINES

Cities & Territorial Development Nature & Environmental Dynamics Tourism, Heritage & Territory



CITE CENTRE FOR RESEARCH AND INTERVENTION IN EDUCATION

The Centre for Research and Intervention in Education (CIIE) of the Faculty of Psychology and Education Sciences (FPCEUP) is a research institution supported by Portuguese Funding Agency for Science and Technology (FCT) in the area of Education Sciences. Evaluated by FCT as 'Excellent' in the last evaluation, it has become the highest ranked institution in this area (ex aequo) in Portugal. CIIE develops high quality research on key issues of change and educational and social processes, in order to expand the role of education in promoting equity, inclusion and active citizenship. Created in 1988, CIIE has a long track-record of excellence in research and training on a wide range of educational and social issues across all educational sectors, from early years to higher education. CIIE main objectives are to develop state-of-the-art research that addresses emerging educational challenges and draws implications for significant in- and out-ofschool educational problems; to foster internationalization investing in sustainable networks that interweave the Global North and the Global South; to stimulate innovative knowledge that contributes tο improvement of education practices and can support the resonance of public debate and decision-making on educational policies. With more than 120 integrated members and collaborators, in a welcoming and stimulating environment, CIIE has been able consolidate a high level of scientific and implementation capacity, with a vast network of partnerships and international recognition. CIIE's concern with the quality of training of emerging researchers is at the core of the Centre's research-in-the-making. CIIE offers its doctoral and master's students especially attractive conditions for advanced training and career development, in a collaborative and internationalised environment. Students are integrated into research communities of practice (CoPin), research and advanced training groups that are organised around one or more thematic areas of specialisation and research interests.

WEBSITE: FPCE.UP.PT/CIIE

Faculty of Psychology and Education Sciences [FPCEUP] \ +351 220 400 615 \ ciie@fpce.up.pt

COORDINATOR

RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 1.6 M €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 46

FCT EVALUATION

Excellent

KEYWORDS

Arts & Digital Education
Education, Citizenship & Social
Cohesion
Innovation & Knowledge Sharing
Learning, Evaluation & Leadership
Vulnerable Groups
Inclusion & Social Justice
Young Researchers & Careers

RESEARCH GROUPS | LINES

Citizenship, Communication & Literacy in Health & Wellbeing Community Education, Participation & Social Change Contemporary Educational Challenges for Migrants & Refugees **Empowerment & Inclusion Through** Digital Education & Arts Engagement of Vulnerable Young People in Education & Training Evaluation & Public Policies in Education Higher Education, Innovation & Diversity Pedagogical Management & Democratic Participation Training, Equity & the Teaching Profession

































CIJ CENTIS FOI INTERDISCIPLINARY CESEATCH ON JUSTICE

CIJ is a Research and Development Unit based at the Faculty of Law of the University of Porto, which main mission is to promote and develop research in legal areas, nationally and internationally. CIJ objectives are the development of research in legal areas, in an innovative transdisciplinary perspective cooperation with similar national and foreign institutions, on subjects covered by the research lines defined by CIJ's Scientific Council; to stimulate the provision of services to the community and disseminating the results of the research produced, through the organization of scientific events and publications. Since its foundation (1998), CIJ has participated in international projects, in partnership with foreign universities and international organisations and has provided services to the national and international community of significant relevance and impact. At the same time, CIJ has provided continuous collaboration to FDUP, promoting and actively participating in post-graduate and masters' courses. Since 2013, CIJ is the editor of RED - Revista Electrónica de Direito, an open access electronic journal that intents to promote and publish interdisciplinary scientific research in the fields of business law and economics, favouring research on comparative law and EU law, as well as contributions from different Portuguese speaking countries.

WEBSITE: CIJ.UP.PT

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COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 212 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 29

FCT EVALUATION

Good

KEYWORDS

Digital Law
Labour Law
Law
Legal & Economic Research
Legal Research
New Rights



Law, Corporate & Marketplace Law, Person & Power



CIPES CENTER FOR RESEARCH IN HIGHER EDUCATION POLICIES

CIPES is a private association, founded by the Universities of Aveiro and Porto and open to other institutions of higher education. CIPES was established in 1998 and from the outset, its mission has been to engage in scholarly research in order to advance critical thought and promote informed understanding about the vital policy issues confronting higher education at both the national and international arenas. The breadth and depth of projects and publications encompasses the major higher education policy issues and reflects the wide diversity of academic backgrounds of the researchers at the Centre. Since its inception, CIPES has considered the internationalization of its activities as a central aspect of its development, and is nowadays an active partner in various research projects in the field of higher education policies, in Europe and in the world. CIPES has been participating actively in international research projects, and it is usual for its researchers to participate in international conferences and to publish in relevant international journals in the field. CIPES has always committed with the organization of several seminars international conference in a diversity of research themes, with the objective of raising the knowledge of its research groups, as well as attaining a higher degree of international visibility.

WEBSITE: CIPES.PT

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COORDINATOR AT U.PORTO

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RESEARCH UNIT FCT FUNDING (20/23) 724 K € (U.Porto ecosystem: 72 K €)

INTEGRATED RESEARCHERS

18 (U.Porto ecosystem: 7)

FCT EVALUATION

Excellent

KEYWORDS

Higher Education Institutions &
Actors
Higher Education Studies
Higher Education Systems
Human Capital
Institutional & Organizational Studies
Policies Analysis & Assessment



Institutional & Organizational Analysis Relationship Between Higher Education & the Environment System Level Policies



CLUP CENTIE OF LINGUISTICS OF THE UNIVERSITY OF PORTO

The mission of CLUP is to promote, develop and disseminate scientific research on linguistics, nationally and internationally, by regularly organizing scientific meetings, conferences, courses and other scientific initiatives, as well as initiatives for the general audience. Our mission builds upon the vision that scientific research in linguistics aims to contribute to promote the social and human well-being. CLUP has conducted research in linguistics over the past 50 years and is the only research Centre in Northern Portugal exclusively dedicated to linguistics. The main strategic goal of CLUP is to promote and further develop crossdisciplinary research approaches in domains such as Forensic Linguistics, Computational, Educational and Clinical Applications, and Studies of Gesture and of Portuguese Sign Language. Our team brings together senior and junior researchers, reputed nationally and internationally in the field of Linguistic Structures and their uses, as well as in the realm of Linguistic Applications. The group, which includes 64 researchers, is responsible for a high volume of national/international publications mainly in the following areas: specialized communication, discourse, phonology, historical linguistics/linguistic linguistics, historiography, text applied psycholinguistics, semantics, syntax, and forensic linguistics. Our areas of application include the production of learning materials for the teaching of Portuguese and other corpora, languages, linguistic natural language processing tools, translation, and forensic linguistics.

WEBSITE: CLUP.PT

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COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 775 K €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 29

FCT EVALUATION

Very Good

KEYWORDS

Applications
Discourse
Linguistics
Structures
Uses



RESEARCH GROUPS | LINES

Linguistic Structures Linguistic Applications

COUP CENTER FOR рѕчсногодч ат UNIUÉCSITY OF POCTO

The Centre for Psychology at University of Porto (CPUP) is a research center with a vibrant scientific environment that brings together researchers from complementary areas of Psychology and share a common interest in human behaviour, mind and brain, in both health and disease. The overarching goal of CPUP is to produce world-class research and innovative educational and clinical applications, thereby contributing to the development of an inclusive society. By complementary frameworks methods, and sharing expertise and resources, the research groups provide a comprehensive approach to the main psychological and social dimensions of human life. CPUP is hosted at the University of Porto, Faculty of Psychology and Education Sciences, where it was created in 1980. It also involves another institution (Maiêutica/ISMAI - University Institute of with which an interinstitutional agreement has been established since 2014. CPUP is also closely connected with PhD Programs at University of Porto (Psychology and Human Sexuality) and at ISMAI (Clinical Psychology). CPUP is organized into five research groups that focuses on: (i) the analysis of how societal changes affects social groups. It examines gender equality in workbalance, peer victimization/ discrimination, ethnic prejudice, or resilience minorities; (ii) socio-emotional cognitive development and adjustment processes, encompassing the analysis of individual, interpersonal and contextual dimensions relevant for understanding child and adolescent development, learning, and wellbeing; (iii) the relational and cognitiveemotional processes involved in psychological adaptation of individuals and families; (iv) the neurocognitive approach to the study of cognitive processes with a special focus on language, communication emotion: (v) the understanding psychological processes of sexual problems.

WEBSITE: FPCE.UP.PT/CPUP

Faculty of Psychology and Education Sciences [FPCEUP] | +351 220 400 617 cpup@fpce.up.pt

COORDINATOR AT U.PORTO

Paula Mena Matos

RESEARCH UNIT FCT FUNDING (20/23) 1.3 M € (U.Porto ecosystem: 1.2 M €)

INTEGRATED RESEARCHERS

124 (U.Porto ecosystem: 85)

FCT EVALUATION

Very Good

KEYWORDS

Experimental & Applied Health & Well-being Human Development Learning & Cognition Psychology

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RESEARCH GROUPS | LINES

Culture, Normativity & Diversity (CND) Development & Education (DE) Human Sexuality (HS) Neurocognition & Language (NCL) Relationships, Change Processes & Wellbeing (RCPW)



The Institute of Sociology of the University of Porto is a research and development centre dedicated to the promotion of sociological knowledge. It was founded in 1989, and has the strategic aim to scale up and consolidate its capacity to put sociological know-how at the service of communities, their well-being and quality of life, with a specific focus on the North region of Portugal. Articulating its goals and activities with those of the Department of Sociology of the Faculty of Arts of the University of Porto, the Institute of Sociology is open to the region and the country as a catalyst for debate and scientific innovation. Focused on fundamental research and on providing socially relevant services, the Institute of Sociology seeks to create an increasingly active involvement with the community, alongside the dissemination of research outcomes, in order to attract new audiences to scientific knowledge, and in particular to the sociological approach to reality. As a scientific infrastructure, IS-UP provides access to sociological information on its Internet website and the website of the Open Repository of the University of Porto and promotes several editorial instruments. In conjunction with the objectives relating to the promotion of innovative knowledge on sociology, IS-UP is the host institution for PhD projects with grants financed by FCT, as part of several national and international PhD programmes in Sociology and/or other Social Sciences.

WEBSITE: ISOCIOLOGIA.UP.PT

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COORDINATOR

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RESEARCH UNIT FCT FUNDING (20/23)

U.Porto ecosystem: 1 M €

INTEGRATED RESEARCHERS

U.Porto ecosystem: 37

FCT EVALUATION

Very Good

KEYWORDS

Ageing
Culture
Family
Social Economy
Social Recompositions
Work & Labour Market



RESEARCH GROUPS | LINES

Social Recompositions, Culture & Territory Work, Family & Social Policies

