





NOVA SCIENCE

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TITLE NOVA Science

PROPERTY

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104 NOVA SCIENCE DAY 2018

WELCOME TO NOVA





Founded in 1973, NOVA University Lisbon (NOVA) is a public university that has adopted since its inception an innovative multidisciplinary model in the Portuguese university context.

The mission of NOVA is to serve society through knowledge and education on a local, regional and global level. Delivering high quality teaching that assures the preference of employers and the success of graduates in the job market is a key priority for NOVA together with the development of topnotch research that contributes to tackle major societal challenges.

The recognition of this quality, both in teaching and research, guarantees the presence in prestigious international rankings, and the participation in networks such as YERUN – Young European Research Universities Network.

Considered one of the 50 best young universities in the world, NOVA stands out for its comprehensive nature, internationalization culture and commitment to the grand challenges of society.

NOVA is the Portuguese university with the best performance in the Horizon 2020 Programme and boasts a track record of 19 ERC grants awarded to its researchers.

The university has more than 20.000 students and 1.800 teaching staff and researchers, and over 2.500 international students from 109 nationalities enrolled in its programmes.

With nine academic units distributed throughout the metropolitan area of Lisbon, NOVA offers an intense and unique academic experience to its community.

Δ WORD FROM THE RECTOR

João Sàágua NOVA UNIVERSITY LISBON



2 **SCIENCE AT NOVA:** A GLIMPSE OF THE FUTURE | 2018

NOVA University fully endorses the vision that takes knowledge and knowledge-based innovation as two crucial springs for sustainable development, both at national and global levels. And for NOVA this entails five general lines of action:

- to assume and develop international agendas for research and innovation with a focus on impact and value creation;
- to pursue smart specialization by identifying our strong research areas;
- to enhance our capability for interdisciplinary research;
- to foster collaboration with top level research groups, national and international, with corporations and with other social sectors (Municipalities, NGOs, and others);
- to outreach some other regions besides Europe, namely but not exclusively, Portuguese speaking countries and Portuguese speaking communities.

To implement these general lines of action, several measures and initiatives were taken or are forthcoming. They focused mostly, although not exclusively, on three aspects: scientific employment and talent attracting; NOVA's interdisciplinary capability; creating impact and value.

In order to support the talented people working at NOVA, and they are plenty, and also the ones that are going to be hired in the near future, we created a special program: "Talent@NOVA" with several subprograms - NOVA Doctoral School; "Preparing for my ERC Grant Application" Program; Individual Hiring Regulations; Merit Reward Regulation; and Merit Prizes Regulation.

The future of research at NOVA University Lisbon will be a creative tension between: fundamental research and innovative value creation, disciplinary hyper-specialization and interdisciplinary approaches to complex issues.

In what concerns social impact and value creation at national level, it should be said that this is a challenge where NOVA has made many recent progresses and has still plenty of room to progress. We coined this overarching project "NOVA Value Creation Project". Its mission is to contribute to the social and economic development of the country and, in particular, to its exporting activity. Here I will emphasize the Collaborative Laboratories, a true cornerstone of this value creation project (presented in this brochure).

I foresee that the future of research at NOVA will be a dynamic balance between four different poles: fundamental research and innovative value creation with social and economic impact; disciplinary hyper-specialization and interdisciplinary approaches to complex issues.

These four poles will generate, so to speak, a permanent creative tension and to cope with this dynamic tensional equilibrium in the right way, NOVA will progress on four fronts: enhancing the profiling of our researchers; stimulating them by designing systems of incentives; developing clear ways for *rotating* people; and keep on communicating in all sorts of ways: to increase mutual knowledge, to enhance mutual trust, and to engage with society. 'Silo culture' is not an option anymore at NOVA, nor is an ivory tower. All open inside and out, that's the name of the game now.

I think it may be appropriate to use a metaphor here, one that put us close to the Portuguese character itself, let's just imagine the future of research at NOVA as a fleet of very diverse but well-coordinated boats, with plenty of busy sailors boldly searching the seas of knowledge.

João Sàágua

MESSAGE FROM THE **VICE-**RECTOR FOR RESEARCH

Elvira Fortunato NOVA UNIVERSITY LISBON



3 **NOVA'S HORIZON**

Research at NOVA is our most important asset that will make the difference and will shape the future of NOVA University Lisbon for the coming years, the Horizon of our ambition as a great **University** is to reach excellence in all areas.

NOVA is proud to host 41 Research Units covering all the scientific and technological areas, where one third are research partnerships between NOVA and other national institutions.

In terms of key performance scientific and technical indicators I would like to highlight the following ones:

- Since the launch of the European Research Council Grants programme in 2008, NOVA's researchers have been awarded a total of 19 grants, placing NOVA as one of the top national institutions with a national share of 25%:
- NOVA is the Portuguese University with the best performance at H2020 Framework Program;
- According to the Leiden ranking 2018, NOVA University Lisbon is the Portuguese institution with the greatest impact in terms of published scientific articles on a global scale, with 11.8% of all scientific production on the TOP 10% of the most cited publications;
- NOVA participates in 10 Collaborative Laboratories funded by FCT.I.P. and coordinates two of them;
- 77% of NOVA's Research Units have been classified with "Exceptional", "Excellent" or "Very Good" during the last evaluation performed by FCT.I.P.;
- Strengthening of the Collaborative Research

Research at NOVA is our most important asset.

Award SANTANDER-NOVA with 11 successful editions:

NOVA integrates the Young European Research Universities Network due to the excellent results achieved in the main rankings of Universities with less than 50 years.

The new Rectoral Team aims to strengthen and to increase the scientific visibility inside and outside NOVA, by promoting cross-cutting issues collaboration, providing tools to the different types of Research Units of NOVA, aiming to explore and take profit of the existing different synergies, to which we would like to associate the societal impacts, as the driving element of our strategies for the future.

Targeting this goal, we promoted the first edition of the NOVA Science Day 2018 that had more than 350 participants.

In order to materialize and share our "best" with NOVA community and their national and international partnerships, we launched in 2018 the NOVA Science journal (paper/digital edition) covering all the research activities at NOVA.

At NOVA we believe that the combined strengths of a collaborative team is by far bigger than the sum of the individuals, and at the end we want to prepare the future generations in order to promote a Strong Academia, a Powerful Industry and a Respect Society.

It is a time of great challenges as well as opportunities for the university community and our partners to work together to increase NOVA's impact, by applying research to address critical global missions.

All of you are welcome at NOVA.

Elvira Fortunato

RESEARCH



4 RESEARCH

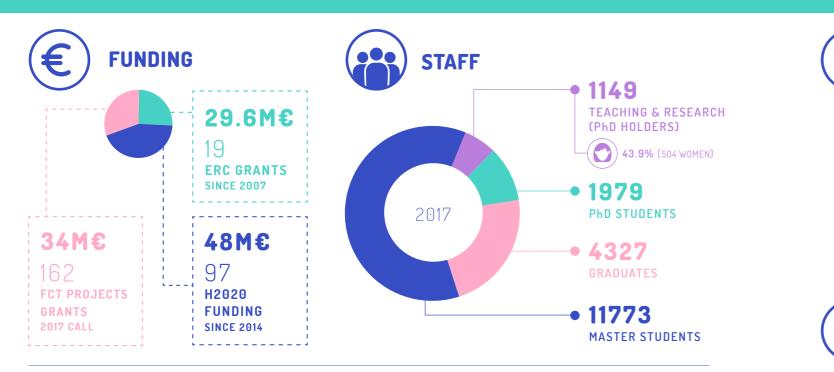
NOVA University Lisbon hosts 41 Research and Development Units (R&D), 15 of which are research partnerships between NOVA and other national institutions. In 2013, the Portuguese Foundation for Science and Technology (FCT, I.P.) evaluated 77% of NOVA's R&D Units with "Exceptional", "Excellent" and "Very Good". These results were way above the national average of Portuguese Universities.

Research at NOVA has been growing and developing, both at quantitative and qualitative level. NOVA is responsible for approximately 10% of the national research papers indexed to the Web of Science (source: DGEEC – Directorate General for Education and Science Statistics and NOVA University Lisbon).

NOVA is the Portuguese University with the best performance (scores/FTE) in the Horizon 2020 Framework Programme. It is worth highlighting that, since the launch of the European Research Council (ERC) Grants programme in 2007, NOVA's researchers were awarded a total of 19 grants, placing NOVA as one of the top national institutions. Given the competitiveness of current funding programmes, NOVA has started a capacitation programme for researchers, TALENT@NOVA, aiming at increasing their competitiveness both at national and international levels.

The improved performance of NOVA in terms of research can be seen in the international rankings' scores and positioning. The good results achieved in the main rankings of Universities with less than 50 years, have granted NOVA the inclusion in YERUN (Young European Research Universities Network). The goal of YERUN is to have young research universities to cooperate towards increasing the influence of the young universities on research policies promoted by the European Union. NOVA participates in 10 Collaborative Laboratories (CoLAB) funded by FCT, I.P. and is the Coordinator Institution of two of them.

FACTS AND FIGURES



2242	INDEXED PUBLICATIONS SCOPUS & WEB OF SCIENCE
1.4*	NORMALIZED IMPACT (40% ABOVE WORLD AVERAGE)
47 %	OF ALL PUBLICATIONS WITH INTERNATIONAL COLLABORATI
14.5%	OF ALL PUBLICATIONS IN TOP 1 Of Most Cited Worlwide
SCOPUS PUBLICAT	TONS 2016

COLLABORATIVE LABORATORIES





RESEARCH HIGHLIGHTS



European Research Council

19 European Research Council (ERC) Grants.



77% of NOVA's Research Units evaluated by the Portuguese Foundation for Science and Tecnology (FCT, I.P.) with "Exceptional", "Excellent" and "Very Good".



co-funded by the Horizon 2020 programme

NOVA is the Portuguese University with the best performance at H2020 Framework Programme.



Integrates YERUN (Network of Young European Research Universities.

> FCT ^{Fundação} para a Ciência e a Tecnologia

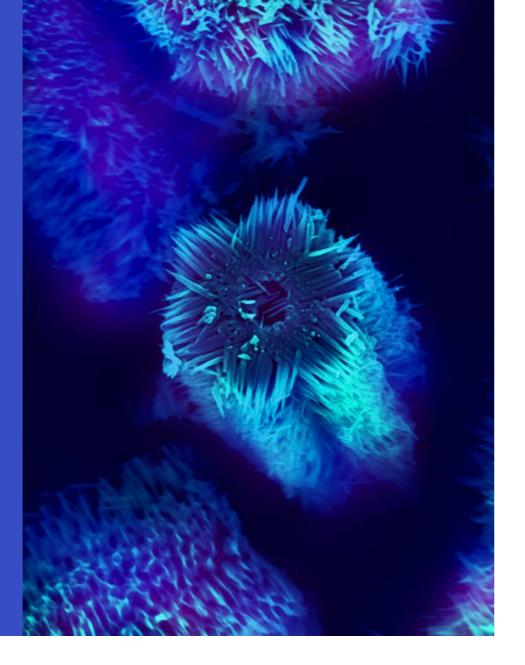
> NOVA participates in 10 Collaborative Laboratories (CoLAB) funded by FCT, I.P. and is the Coordinator Institution of two of them.



Leiden Ranking

NOVA is the Portuguese institution with the greatest impact in terms of published scientific articles on a global scale, with 11.8% of all scientific production on the TOP 10% of the most cited publications.

RESEARCH UNITS



NOVA SCHOOL OF SCIENCE AND TECHNOLOGY

CEFAGE	Centre for Advanced Studies in Management and Economics	
CEFITEC	Centre of Physics and Technological Research	
CENIMAT I i3N	Institute for Nanostructures, Nanomodeling and Nanofabrication	
CENSE	Centre for Environmental and Sustainability Research	
CIUHCT	Interuniversity Centre for the History of Science and Technology	
CMA	Centre for Mathematics and Applications	
CTS	Centre of Technology and Systems	
GeoBioTec	GeoBioSciences, GeoTechnologies and GeoEngineering	
LAQV-REQUIMTE	Associated Laboratory for Green Chemistry - Clean Technologies and Processes	
LIBPhys	Laboratory for Instrumentation, Biomedical Engineering and Radiation Physics	
MARE	Marine and Environmental Sciences Centre	
MEtRICs	Mechanical Engineering and Resource Sustainability Centre	
NOVA LINCS	NOVA Laboratory for Computer Science and Informatics	
UCIBIO	Applied Molecular Biosciences Unit	
UNIDEMI	Research and Development Unit in Mechanical and Industrial Engineering	
VICARTE	Glass and Ceramic for the Arts	

NOVA SCHOOL OF SOCIAL SCIENCES AND HUMANITIES

050514
CESEM
CETAPS
CHAM
CIC.DIGITAL
CICS.NOVA
CITI
CLUNL
CRIA
IAP
IELT
IEM
IFILNOVA
IHA
IHC
INET-md
IPRI

CISP

Musical Aesthetics and Sociological Studies Research Centre Centre for English, Translation and Anglo-Portuguese Studies Centre for the Humanities Centre for Research in Communication, Information and Digital Culture Interdisciplinary Centre of Social Sciences Interactive Technologies Research Centre Linguistics Research Centre of NOVA University Lisbon Centre for Research in Anthropology Institute for Archaeology and Palaeo Sciences of NOVA University Lisbon Institute for the Study of Literature and Tradition – Heritage, Arts and Cultures's Institute of Medieval Studies NOVA Institute of Philosophy Art History Institute Institute of Contemporary History Ethnomusicology Institute - Music and Dance Research Centre Portuguese Institute for International Relations

NOVA SCHOOL OF BUSINESS & ECONOMICS

NOVA SBE	Nova School of Business & Economics
NOVA MEDICAL	SCHOOL
iNOVA4HEALTH ToxOmics	iNOVA4Health Advancing Precision Media Centre for Toxicogenomics and Human H
NOVA SCHOOL C	IF LAW
CEDIS	Research Center on Law and Society
NOVA INSTITUT	E OF HYGIENE AND TROPICAL
GHTM	Global Health and Tropical Medicine
NOVA INFORMA	TION MANAGEMENT SCHOOL
MagIC	Information Management Research Cent
NOVA INSTITUT	E OF CHEMICAL AND BIOLOGIC
MOSTMICRO-ITQB GREEN-IT iNOVA4Health	Molecular, Structural and Cellular Microb bioresources4sustainability iNOVA4Health Advancing Precision Medio
NOVA NATIONAL	SCHOOL OF PUBLIC HEALTH
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Public Health Research Centre

licine Health

MEDICINE

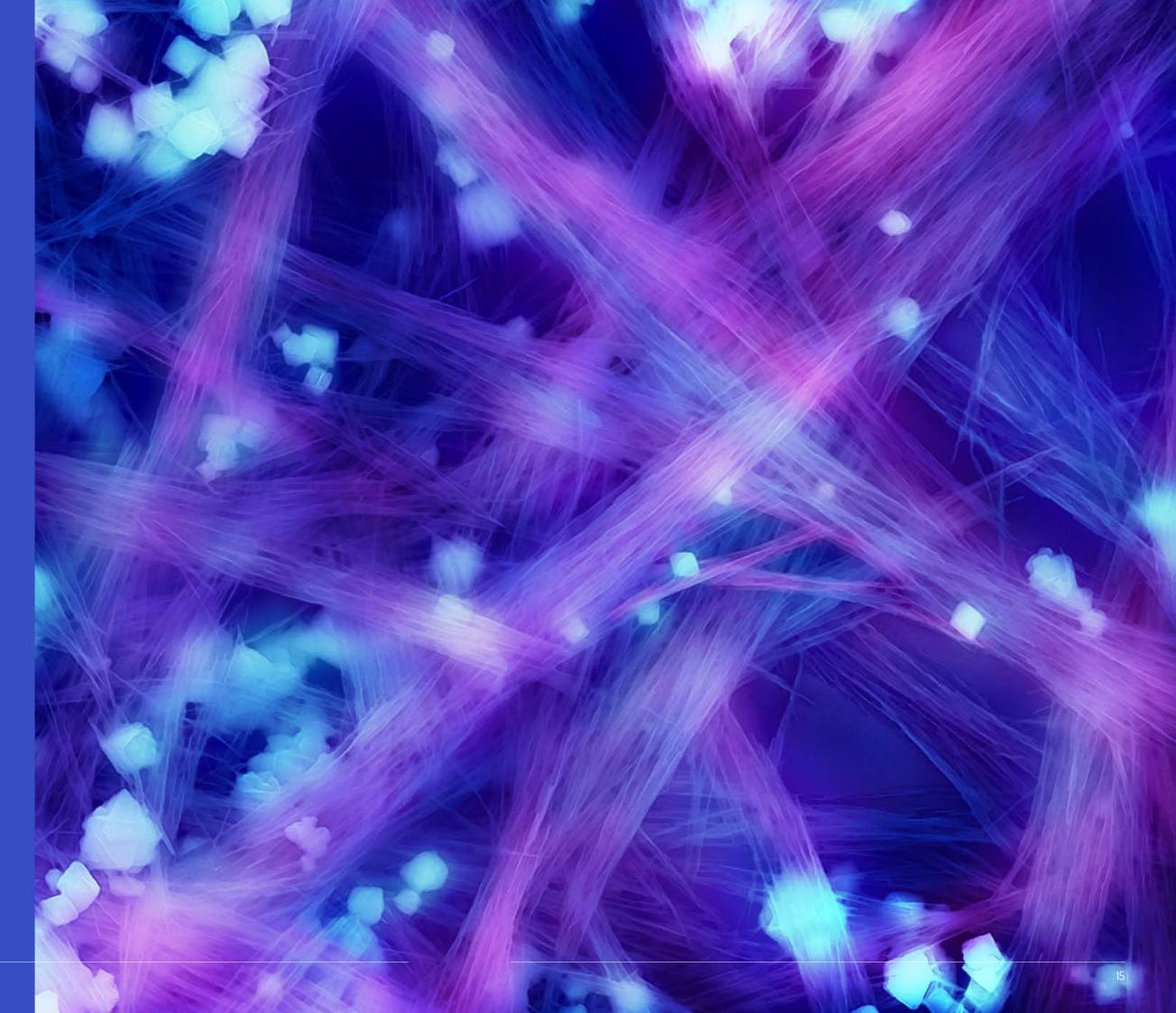
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CAL TECHNOLOGY ANTÓNIO XAVIER

biology Unit

icine

RESEARCH UNITS AT A GLANCE



> NAME

CENTER FOR ADVANCED STUDIES IN MANAGEMENT AND ECONOMICS

> ACRONYM CEFAGE - FCT/UNL

> COORDINATOR Joaquim Pina

> CONTACTS, LOCATION

NOVA School of Science and Technology Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 300

> WEBSITE

www.cefage.uevora.pt



BRIEF DESCRIPTION

The Center for Advanced Studies in Management and Economics at NOVA School of Science and Technology (CEFAGE-FCT/UNL) was created by the end of 2013, as a branch of the Center for Advanced Studies in Management and Economics (CEFAGE), which was founded in 2006 with the aim of promoting research in the areas of Management and Economics. Since 2009, CEFAGE is funded by the Portuguese Foundation for Science and Technology (FCT, I.P.) and, in its first evaluation, achieved the highest FCT grade: "Excellent". In 2014, it was evaluated as "Very Good" by the FCT, I.P. panel. CEFAGE has a main office at the University of Évora, with Professor Jacinto Vidigal da Silva as current Director, and branches at the University of Algarve, University of Beira Interior and NOVA School of Science and Technology.

In the near future, the two main goals of CEFAGE are to promote the production and diffusion of high-quality research in Economics and Management and to educate PhD students in Economics and





Management, providing them with an education that combines academic rigor with the excitement of discovery associated with doing research.

CEFAGE's research activities are currently organized in 4 research groups (Strategy, Entrepreneurship & Operations; Finance; Industrial, Labor & Spatial Economics; Macroeconomics, Growth & Development) which are defined according to our main areas of research, and 4 thematic strands (Tourism; Agrifood & Forestry; Education & Health; Sustainability & Performance) which are transversal to the various research groups.

CEFAGE possesses and subscribes to several databases of scientific journals and historical economic and financial data. CEFAGE possesses also a server where many software packages are available for its members.

Subscribed databases of journals available to CEFAGE-UE members include b-on – Biblioteca do Conhecimento Online (which allows access to, among others, ISI – Web of Knowledge, EBSCO, Elsevier Science Direct, Springer Link, Taylor & Francis Journals), CEPR Discussion Papers, JSTOR, NBER.

Subscribed databases of historical data available to CEFAGE-UE members include Amadeus, Datastream 5.1, EIU – Country Data, EU-SILC: European Union Statistics on Income and Living Conditions, Moody's Ultimate Recovery Database, Quadros de Pessoal.

In CEFAGE-UE's server, the following software packages are available: Adobe Acrobat 9 Pro Extended, EViews 7.2, GAUSS 12 x64, GAMS 23.9.3, LIMDEP 9.0, Maple 16, Mathematica 8, MATLAB R2012b, R 2.12.1, Scientific WorkPlace 5.5, SPSS 19, StatTransferStata/SE 12.0 (64 bits).

RESEARCH HIGHLIGHTS

The integrated members have been distinguished with The International Journal of Industrial Organization Best Paper Award 2015 and a NET Institute (competitive) Summer Grant, 2013 and have also taken part in several research projects, as principal investigators, consultants or team members. Examples include:

The Welfare Effects of Bundled Discounts in Oligopoly FCT (PTDC/EGE-ECO/111558/2009)

Regulation in Telecommunications Industries FCT (PTDC/EGE-ECO/115451/2009)

Modelos Económicos Sobre Inovação e Empreendedorismo FCT (PTDC/EGE-ECO/117932/2010)

Urban Wins | Urban metabolism accounts for building Waste Management Innovative Networks and Strategies H2020 programme | Grant No 690047



SCIENTIFIC AREAS

Economics Finance Business Management and Entrepreneurship

FACTS AND FIGURES



> SCIENTIFIC OUTPUT

5 MAIN PUBLICATIONS (2013-2017 PERIOD)

Brito, D., R. Ribeiro and H. Vasconcelos, 2018, "Quantifying the Coordinated Effects of Partial Horizontal Acquisitions", European Economic Review, 110, 108-149.

Pires, A., J. Sargedas, M. Miguel, J.P. Pina, G. Martinho, 2017, "A case study of packaging waste collection systems in Portugal – Part II: Environmental and economic analysis", Waste Management, 61, 108–116.

Catalão-Lopes, M., J.P. Pina, A. Branca, 2016, "Social responsibility, corporate giving and the tide", Management Decision, 54(9), 2294-2309.

Brito, D. and Vasconcelos, H., 2015, "Interfirm Bundling and Vertical Product Differentiation", The Scandinavian Journal of Economics,117(1), 1-27.

García, N. Georgantzís, A. Jaramillo-Gutiérrez, P. Pereira and J. Pernías-Cerrillo, 2014, "On the Evolution of Monopoly Pricing in Internet-Assisted Search Markets", Journal of Business Research, 67(5), 795-801.

> NAME

CENTRE OF PHYSICS AND TECHNOLOGICAL RESEARCH

> ACRONYM CEFITEC

> COORDINATOR Paulo Manuel Limão-Vieira

> CONTACTS, LOCATION

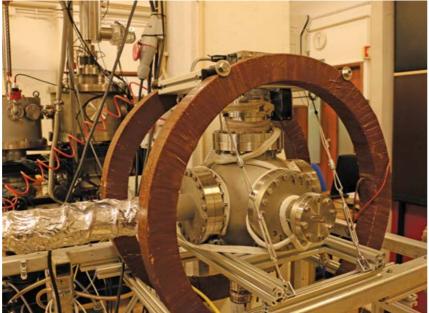
NOVA School of Science and Technology Campus de Caparica, 2829-516 Caparica, Portugal +351 212 947 831

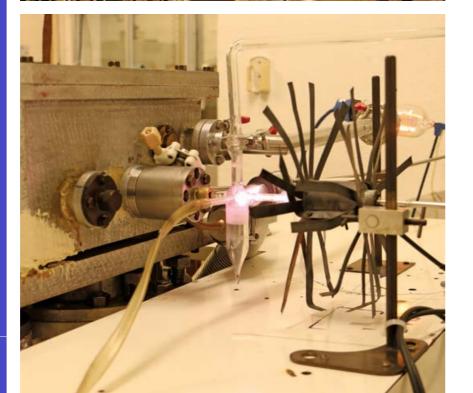
> WEBSITE

www.cefitec.fct.unl.pt









BRIEF DESCRIPTION

CEFITEC (Centre of Physics and Technological Research) is a research centre of NOVA School of Science and Technology, NOVA University Lisbon, bringing together researchers devoted to explore activities in Engineering Physics, Applied Physics, Physics, Technological Physics and Biophysical sciences. Research within CEFITEC focuses on scientific and technological developments on Surface Science and Vacuum Technology, Atomic and Molecular Interactions, Thin Films production, Solar Pumping Laser and Functional Molecular Systems. We approach these fundamental and applied areas of science by applying unique analytical and technical methodologies with complementary techniques and facilities within an international environment. Currently we keep fruitful exchange collaborations with universities/research units in Spain, France, UK, Belgium, Austria, Denmark, Poland, Morocco, Algeria, Brazil, Japan and Australia.

RESEARCH HIGHLIGHTS

An effective technology for cork contaminants extraction has been developed. Electronic state spectroscopy of biological and aeronomic molecules, the latter with particular role to global warming and ozone depletion.

Indirect treatments with a Cold Atmospheric Pressure Plasma jet device selectively kill human squamous carcinoma cells leaving the non-cancerous ones almost unaffected.

Portuguese Virgin Olive Oils classification using lipidic layer-by-layer films as an Electronic nose and an Electronic Tongue.

SCIENTIFIC AREAS

Surface Science and Vacuum Technology Molecular Physics Plasmas and Applications Functional Molecular Systems & Lasers Solar Pumped Laser

FACTS AND FIGURES



SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS (2013-2017 PERIOD)

Visible-Light Photocatalysis in Ca0.6Ho0.4Mn03 Films Deposited by RF-Magnetron Sputtering Using Nanosized Powder Compacted Target, B. Barrocas, S. Serio, A. Rovisco, and M. E. Melo Jorge, J. Phys. Chem. C, 118 (2014) 590 – 597.

Energy Thresholds of DNA Damage Induced by UV Radiation: An XPS Study, P. J. Gomes, A. M. Ferraria, A. M. Botelho do Rego, S. V. Hoffmann, P. A. Ribeiro, and M. Raposo, J. Phys. Chem. B, 119 (2015) 5404 – 5411.

Selective bond cleavage in potassium collisions with pyrimidine bases of DNA, Diogo Almeida, Filipe Ferreira da Silva, Gustavo García, and Paulo Limão-Vieira, Phys. Rev. Lett. 110 (2013) 023201.

Solar-pumped Nd:YAG laser with 31.5 W/m2 multimode and 7.9 W/m2 TEM00-mode collection efficiencies, Dawei Lianga, Joana Almeida, Claudia R. Vistas, Emmanuel Guillot, Sol. Energy Mater Sol. Cells 159 (2017) 435 – 439.

Vacuum physics applied to the transport of gases through cork, O. M. N. D. Teodoro, A. L. Fonseca, H. Pereira, A. M. C. Moutinho, Vacuum 109 (2014) 397–400.

NOVA SCHOOL OF SCIENCE AND TECHNOLOGY CENIMAT 1 i3N

> NAME

MATERIALS RESEARCH CENTER OF INSTITUTE OF NANOSTRUCTURES, NANOMODELLING AND NANOFABRICATION

> ACRONYM CENIMAT I i3N

> COORDINATOR Elvira Fortunato

> CONTACTS, LOCATION

NOVA School of Science and Technology Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 562

> WEBSITE

www.cenimat.fct.unl.pt www.i3n.org

CENIMAT

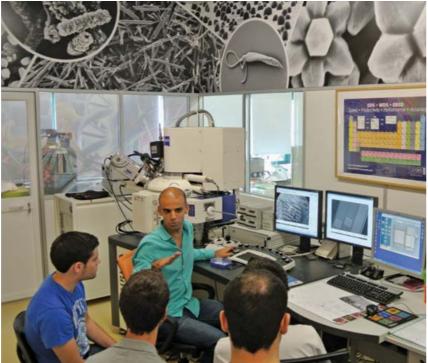
i3N

BRIEF DESCRIPTION

Created in 2006 as Associate Laboratory by the Portuguese Minister of Science, Technology and Higher Education, i3N is a partnership between 2 leading research units in fundamental and applied science: CENIMAT (Materials Research Center, NOVA University Lisbon) and FSCOSD (Physics of Semiconductors, Optoelectronics and Disordered Systems, Aveiro University). Since 2018 i3N follows a strategic refocus of the main scientific activities in advanced functional materials/ devices for nanosciences and nanotechnologies.

i3N has demonstrated over the last years an excellent attractiveness for European funded projects, going from ideas (6 ERC grants: 2 AdG, 2 StG; 1 CoG; 1 PoC) to innovative applications, demonstrating a good potential of financial independence, considered an international reference in the area of Materials Science and Nanotechnologies.







i3N is an interdisciplinary institute built on existing institutional strengths, offering innovative, world class research and education. It is organized in 6 research groups in order to address the challenges of its strategic research fields:

- Sustainable Micro and Nanotechnology
- Energy Efficiency
- Nanomaterials Engineering
- Biomedical Engineering

During the last years, i3N has consolidated its strategic research activity in order to overcome the innovation challenges associated to Nanotechnologies, Nanomaterials and Nanosciences in accordance with the policies established by Horizon 2020, with the purpose of improving the level of materials science and technology understanding and their use as enabler to serve multi-sector applications.

We believe that the combined strengths of a collaborative team are by far, orders of magnitude larger than the sum of the individuals. Nanoscience and Nanotechnology in strong relation with Advanced Functional Materials are the front of modern research. The fast growing economy here requires experts with outstanding knowledge in these areas in combination with the skills to apply it in new products. At i3N we are also training the future generations for academia and industry.

i3N integrates top facilities as required by high level research groups having as objective to be in forefront edge of research, technological development and innovation in the demanded areas of advanced micro/nano materials, nanotechnologies and nanosciences, and being responsible for boosting all known industry/applied research. This involves the use of sophisticated labs for characterization and processing activities, such as clean rooms; use of sophisticated equipments, in some cases highly expensive, such as SEM/FIB or ultra-high vacuum units to process materials and devices; use of raw materials, special gases and components, among others.

RESEARCH HIGHLIGHTS

6 ERC GRANTS SINCE THE BEGINNING OF THE PROGRAM

2 AdG, 1 CoG, 2 StG and 1 PoC representing one third of all the ERCs granted to NOVA (10.8 M€).

INTERNATIONAL PHYSICS OLYMPIAD - LISBON 2018

400 secondary school students from 87 countries came to Portugal to learn about and share their passion for Physics having an experimental competition focused **on paper transistors**.

SANTANDER AWARD EDITION 2015/2016

"Singing bronze" - Attributed to Professors Rui Silva, Vincent Debut, and Elin Figueiredo.

E. FORTUNATO AND R. MARTINS

Finalists for the European Inventor Award 2016 from the European Patent Office. The invention of paper-based transistors by E. Fortunato and R. Martins offers a cost-saving and energy-efficient alternative to silicon chips. Applications in daily life include biosensors, "smart" product packaging, networked shipping labels and animated billboards.

SCIENTIFIC AREAS

Transparent Electronics Paper Electronics Nanoelectronics Biosensors, Microfluidics & Bioelectronics Nanoplasmonics & Photovoltaic Solar Cells Flexible Electronics Thermoelectric Materials Chromogenic Materials Nanocomposites & Nanostructured Polymers Cultural Materials Biomaterials New Glasses and Ceramics New Alloys for Bio/Aerospace Applications

FACTS AND FIGURES



45 PhD HOLDERS 26 PhD STUDENTS 55 GRANT HOLDERS



480 SCOPUS Articles
34 Books and Book Chapters
11 granted / 7 pending Patents



8.5M€ FCT, I.P. National Funding 10.5M€ International Funding

2M€ Industry

> SCIENTIFIC OUTPUT

5 MAIN PUBLICATIONS (2013-2017 PERIOD)

Oliveira, J. P.; Miranda, R. M.; Braz Fernandes, F. M., Welding and Joining of NiTi Shape Memory Alloys: A Review. *Progress in Materials Science* **2017**, 88, 412-466.

Fernandes, S. N.; Almeida, P. L.; Monge, N.; Aguirre, L. E.; Reis, D.; de Oliveira, C. L. P.; Neto, A. M. F.; Pieranski, P.; Godinho, M. H., Mind the Microgap in Iridescent Cellulose Nanocrystal Films. *Advanced Materials* **2017**, 29, 1603560.

Liu, A.; Zhu, H.; Guo, Z.; Meng, Y.; Liu, G.; Fortunato, E.; Martins, R.; Shan, F., Solution Combustion Synthesis: Low-Temperature Processing for p-Type Cu:Ni0 Thin Films for Transparent Electronics. *Advanced Materials* **2017**, 29, 1701599.

Goswami, S.; Nandy, S.; Banerjee, A. N.; Kiazadeh, A.; Dillip, G. R.; Pinto, J. V.; Joo, S. W.; Martins, R.; Fortunato, E., Electro-Typing" on a Carbon-Nanoparticles-Filled Polymeric Film using Conducting Atomic Force Microscopy. *Advanced Materials* **2017**, 29, 1703079.

Panigrahi, S.; Jana, S.; Calmeiro, T. S.; Nunes, D.; Martins, R.; Fortunato, E., Imaging the Anomalous Charge Distribution Inside CsPbBr3 Perovskite Quantum Dots Sensitized Solar Cells. *ACS nano* **2017**, 11, 10214-10221.

CENSE

> NAME

CENTER FOR ENVIRONMENTAL AND SUSTAINABILITY RESEARCH

> ACRONYM CENSE

> COORDINATOR Rui Ferreira dos Santos

> CONTACTS, LOCATION

NOVA School of Science and Technology Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 397

> WEBSITE

www.cense.fct.unl.pt

{%} CENSE

BRIEF DESCRIPTION

CENSE is a research unit of NOVA School of Science and Technology, which mission is to carry out interdisciplinary research in environmental sciences and engineering, on the interaction between human and natural systems, to promote sustainable development. Our Vision is "to be a centre for excellence in interdisciplinary research and advanced education on sustainability. In an atmosphere of collaboration and freedom to innovate, we explore new pathways for building a sustainable society".

In the Ecological Economics and Environmental Management domain we research on circular economy, eco-innovation and green procurement topics. Exploring natural capital and ecosystem services concepts as a language for valuation and to support the design of policy instruments is another key research topic in this field with a high societal impact. Research on methods development focuses on a portfolio of analytical-deliberative approaches (e.g., participatory system dynamics, sustainability assessment, multicriteria analysis, scenarios, mixed-method approaches).





In the Energy and Climate (E&C) area we work to innovate towards 'prosperity with minimal resources and no emissions', integrating future trends on climate change impacts, massive digitalization and 'glocal' cultural heritage. We study emerging local/hyperlocal energy and food production/consumption systems based on shared resources & services and circular models, yet interconnected with the global sphere. The Open E&C Initiative is developed with ASHOKA to increase social impact, making available data & knowledge on households' energy consumption and on energy & food systems climate risks.

In the Computation for Sustainability area we work to assure the development of the Internet of Everything (IoE). Both the strategic "Man in the Moon" type project for the IoE and the craftsmanship associated with more experimental projects translate in targeted outcomes, embodied in this area's strategy namely in patents, Creative Commons software licenses, doctoral theses and scientific publications. The area follows an Apprenticeship model in students' training and will work with listed companies it created in the past such as YDreams Global, Ynvisible or Aromni.

In the Bioresources and Green Technologies research area we work on cutting-edge topics such as electrokinetics, phyto and bioremediation and chemical ecology, aiming at the removal of heavy metals/ organic pollutants and recovery of raw materials, E-tech elements and degradation of emergent contaminants; targeting environmentally relevant signalling molecules. RESOLUTION LAB is a research infrastructure, boosting specialized analytical expertise in instrumentation and methodology, integrating academic knowledge with industry needs.

In the Sustainable Water Sanitation, Wastes and Resources Recovery area we work in resource efficiency by 'closing the loops' through greater recycling and reuse, which is a cornerstone of sustainability policies where wastes and water are seen as resources. Our investigation includes advanced research on sustainable products for water treatment; optimisation of anaerobic digestion in wastewater treatment systems; removal of emergent compounds and particles at micro and nano scales; and testing of new methods to assess the risks induced by wastewater discharge to surface waters.

CENSE is integrated in networks of research activities worldwide and is actively involved in the following educational programs: Master in Environmental Engineering – MIEA; Master in Renewable Energy Engineering – MEER; European Master in System Dynamics – EMSD; PhD in Environment and Sustainability – PDAS; PhD in Climate Change and Sustainable Development Policies – PDACPDS.

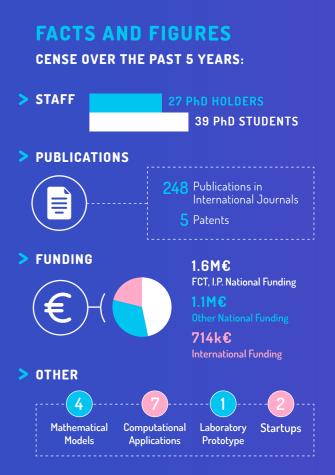
RESEARCH HIGHLIGHTS

Contributions to the uptake of circular economy and eco-innovation. Design of innovative policy Instruments for biodiversity conservation and ecosystem services.

Future trends on climate change impacts and decarbonization pathways. Electrokinetics, phyto and bioremediation and chemical ecology targeting environmental relevant signaling molecules.

SCIENTIFIC AREAS

Ecological Economics and Environmental Management Energy and Climate Computation for Sustainability Bioresources and Green Technologies Sustainable Water Sanitation, Wastes and Resources Recovery



> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Forkel, M., Carvalhais, N., Rödenbeck, C., Keeling, R., Heimann, M., Thonicke, K., Zaehle, S., Reichstein, M., 2016. Enhanced seasonal C02 exchange caused by amplified plant productivity in northern ecosystems. Science, 351(6274), 696–699.

Seixas, J., Simões, S., Dias, L., Kanudia, A., Fortes, P., Gargiulo, M. 2015. Assessing the cost-effectiveness of electric vehicles in European countries using integrated modeling. Energy Policy, 80, 165–176.

Ribeiro A. B., Mateus, E.P., Couto, N. (Editors), 2016. Electrokinetics across disciplines and continents – New strategies for sustainable development. Springer International Publishing, 427 pp. ISBN: 978-3-319-20178-8 (Print) 978-3-319-20179-5 (Online).

Coutinho, V., Domingues, A. R., Caeiro, S., Painho, M., Antunes, P., Santos, R., Videira, N., Walker, R. M., Huisingh, D., Ramos, T. B., 2018. Employee-Driven Sustainability Performance Assessment in Public Organisations. Corporate Social Responsibility and Environmental Management.

Clemente, P., Calvache, M., Antunes, P., Santos, R., Cerdeira, J., Martins, M.J., 2018. Combining social media photographs and species distribution models to map cultural ecosystem services: the case of a Natural Park in Portugal. Ecological Indicators, 96, 59-68.

> NAME

INTERUNIVERSITY CENTER FOR THE HISTORY OF SCIENCE AND TECHNOLOGY

- > ACRONYM CIUHCT
- > COORDINATOR Maria Paula Diogo

> CONTACTS, LOCATION

NOVA School of Science and Technology Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 503

> WEBSITE

www.ciuhct.org



CIUHCT is a leading European research unit in the field of social studies in Science, Technology and Medicine (STM). Using a multidisciplinary approach and focusing mainly on Portuguese case studies, it aims at asserting the relevance of History of STM in building citizenship and European identity. CIUHCT participates actively in international debates on the concepts of center(s) and



Francisco de Arruda Furtado (1854-1887), Discípulo de Darwin OB março até 07 junho 2015

seu Nacional de História Natural e da Clência



Retratar as Doenças Tropicais: Imagens Escolhidas e Histórias Diversas 10 novembro ató 18 dezembro 2014



periphery(ies), on the relevance of STM knowledge in the construction of modern and contemporary societies, using an innovative methodological framework centered on the trilogy circulation, appropriation and innovation. CIUHCT participates in international research projects, networks and innovative pedagogical platforms and it is a hub for a new generation of Portuguese and foreign scholars. CIUHCT is also committed to outreach activities mainly by promoting and supporting exhibitions and public lectures.

CIUHCT's organization is based on two transversal thematic groups:

- Instruments and Practices, Visual and Material Cultures. It addresses STM actors and practices, objects, and their representations, including but not restricted to instruments, with a view to contribute to a renewed history of knowledge, encompassing scholarly and artisanal forms, bridging traditional conceptual, socio-professional and disciplinary barriers, and contributing to recent historiographical debates.
- Experts, institutions and globalization. Aims at building an integrated historical narrative by focusing on the coproduction of STM knowledge and its various forms of circulation and the political agendas of the various political regimes in Portugal and its colonies since the 18th century. It is particularly suited to enlighten contemporary hot topics such as innovation, knowledge and reflexive societies, through the seldom used, but extremely useful, lenses of history, philosophy and sociology of STM.

RESEARCH HIGHLIGHTS

Making Europe Book Series www.makingeurope.eu

disasters, divisions and re-unions.

By focusing on key dimensions of technological change, Making Europe's six volumes offer broad scope, sharp analysis, and critical knowledge, blending 14 distinguished historians' skills to learn how, where, and why technologies were fundamental to shaping modern Europe and how experts, innovators, and technological institutions helped generate 150 years of European advances and

InsSciDE - Inventing a shared Science Diplomacy for Europe www.insscide.eu

H2020 project centered on the development of a shared science diplomacy across Europe through international, interdisciplinary and groundbreaking research. The project aims to create an inclusive and innovative dialogue, highlighting the contribution of Science Academies and networks of Science Diplomats to address global challenges. InsSciDE explores the history of science diplomacy, offers a framework for understanding, and delivers stakeholdersupported strategy and policy recommendations.

The Anthropocene Curriculum and Campus www.anthropocene-curriculum.org

In demanding structurally novel commitments, the Anthropocene predicament offers us the opportunity to make previously uncharted transdisciplinary connections, and to experiment with new forms of higher education. Universities, academies, research platforms, and cultural institutions, as situated spaces of knowledge production and dissemination, must deeply integrate cross-disciplinary thinking, mutual learning, new modes of research, and civic commitment in order to secure their future.

History of Global Health, Colonial and Tropical Medicine eventos.fct.unl.pt/conghmt/home

Based strongly, although not exclusively, on the Portuguese-Brazilian Meetings on the History of Tropical Medicine the network aims at bringing together historiographical reflections and comparative analysis and case-studies examining different national, colonial, post-colonial, international and global contexts. https://congressomanaus.wixsite.com/congresso2018

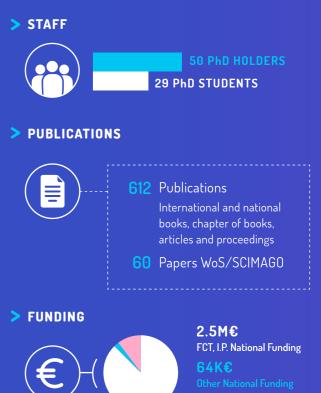


CIUHCT Centro Interuniversitário de História das Ciências e da Tecnologia FCUL | FCT - UNL

SCIENTIFIC AREAS

History of Science History of Technology History of Medicine Philosophy of Science and Technology Social Studies of Science, Technology and Innovation Science, Technology and Literature Material Culture and Heritage

FACTS AND FIGURES



290K€ International Funding

SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS (2013-2017 PERIOD)

Isabel Amaral, Maria Inês Nogueira, Francisco Monte Ferreira, "Entre neurónios e sinapses: as contribuições de Cajal e Athias para a medicina ibérica entre os séculos XIX e XX," História, Ciências, Saúde, Manguinhos 24 (2017).

António Abreu, Paula Urze, "System thinking shaping innovation ecosystems." Open Engineering 6, 1 (2016).

Maria Paula Diogo, Kostas Gavroglu, Ana Simões, eds., "FORUM STEP Matters", Technology & Culture, 57 (4) (2016).

Maria Paula Diogo, Dirk Van Laak, Europe Globalizing - Mapping, Exploiting, Exchanging (Palgrave McMillan, 2016).

Palmira Fontes da Costa, Medicine, Trade and Empire. Garcia de Orta's Colloquies on the Simples and Drugs of India (1563) in Context (Surrey: Ashgate Publishing Ltd, 2015).

CMA

> NAME

CENTER FOR MATHEMATICS AND APPLICATIONS

> ACRONYM CMA

> COORDINATOR António Malheiro

> CONTACTS, LOCATION

NOVA School of Science and Technology Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 388

ECT.UNL

centro de mat<u>emática</u>

e aolicações

> WEBSITE

www.cma.fct.unl.pt







BRIEF DESCRIPTION

The CMA (Centre for Mathematics and Applications), located at the Caparica Campus, is the only research unit dedicated primarily to mathematics at NOVA University Lisbon. It develops, promotes and funds research in various areas of mathematics. The centre is organized into four research groups: Algebra and Logic (AL), Analysis (An), Operations Research (OR), and Statistics and Risk Management (SRM). Our focus is on cutting edge research in both pure and applied mathematics, with its subsequent publication in top journals. CMA also promotes interdisciplinary research, being currently developed along three main lines: "Mathematical Biology", "Mathematics for Health", and "Maths for Big Data". It is part of CMA's strategic plan to engage with society by transferring knowledge to industry and business, either through providing specialized training courses or by giving solutions to real-world problems. CMA also values outreach activities and is probably the leading unit in Portugal for educational and outreach activities in Mathematics. The CMA is associated with national and international doctoral programs. In the last assessment made by the Foundation for Science and Technology, CMA received a rating of "Very Good".

RESEARCH HIGHLIGHTS

3 FCT projects led by CMA researchers, with more than 200K€ each.
1 EU-sponsored programme involving 4 other EU countries.
2 Network COST Actions funded by the European Commission.
Integrates PT-MATHS-IN (Portuguese Network for Industrial Mathematics and Innovation).

SCIENTIFIC AREAS

Algebra and Logic Analysis Statistics and Risk Management Operations Research

FACTS AND FIGURES



> SCIENTIFIC OUTPUT

5 MAIN PUBLICATIONS (2013-2017 PERIOD)

M. Aguiar, N. Stollenwerk, and S. B. Halstead. The Impact of the Newly Licensed Dengue Vaccine in Endemic Countries. PLoS Negl Trop Dis 10(12): 2016.

M. Marcolli, and **G. Tabuada**. Noncommutative numerical motives, Tannakian structures, and motivic Galois groups. J. Eur. Math. Soc., 18(3):623-655, 2016.

M. L. Morgado and **M. Rebelo**. Numerical approximation of distributed order reaction-diffusion equations. Journal of Computational and Applied Mathematics, 275:216-227, 2015.

A. J. Cain, R. D. Gray, and A. Malheiro. Finite Gröbner-Shirshov bases for Plactic algebras and biautomatic structures for Plactic monoids. Journal of Algebra, 423(1):37-53, 2015.

B. Mota, **M. I. Gomes**, A. Carvalho, and A. P. Barbosa-Povoa. Towards supply chain sustainability: economic, environmental and social design and planning. Journal of Cleaner Production, 105:14-27, 2015.

CTS

> NAME

CENTRE OF TECHNOLOGY AND SYSTEMS

> ACRONYM CTS

> COORDINATOR Luís Camarinha-Matos

> CONTACTS, LOCATION

NOVA School of Science and Technology Campus de Caparica, 2829-516 Caparica, Portugal +351 212 944 545

> WEBSITE

cts.uninova.pt

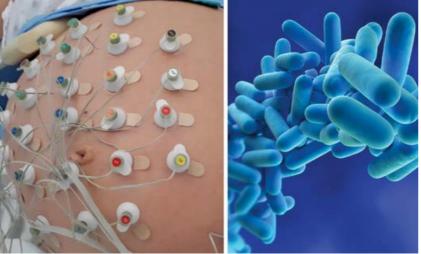


BRIEF DESCRIPTION

CTS is a research center hosted by the UNINOVA Institute, bringing together researchers of the School of Science and Technology of NOVA University Lisbon, Polytechnic Institute of Lisbon (ISEL), Polytechnic Institute of Setubal, and Polytechnic Institute of Beja.

CTS research activities focus on systems with growing levels of intelligence, autonomy, and hyper-connectivity. This entails data-rich environments, distributed intelligence, mobility and autonomy, where sensing, micro-electronics, embedded systems, machine learning, computational intelligence and qualitative reasoning, robotics and automation, interoperability and collaborative networks, security,







and balanced human-systems collaboration play a major role. Global concerns of sustainability, including energy efficiency and systems optimization, encompass the developments. Addressing such systems requires contributions from multiple knowledge areas. CTS covers a wide spectrum of competences and seeks an interdisciplinary integration of these multiple knowledge areas to cover the whole range of abstraction layers, from smart devices to large and networked cognitive systems-of-systems.

CTS is committed to: (i) Plan and conduct high quality research on advanced engineering systems [research excellence], (ii) Create value and societal impact with research results [society engagement excellence], (iii) Train the future generation of researchers in the area [education excellence].

CTS has become internationally recognized as a leading research center on inter-connected and cognitive cyber-physical systems. It will guarantee a supportive and agile interdisciplinary research environment, and a culture of excellence and responsible research for its members.

CTS pursues its objectives guided by the following values: Academic honesty and responsibility; Appreciation of excellence; Appraisal of creativity and entrepreneurial spirit; Respect for individual intellectual freedom; Attention to societal concerns.

CTS is concerned with contributing to contemporary societal challenges, including a strong component of applied research in industry and services, guiding its action by continuous strive for excellence in research and effective value creation and valorization of research results. This aim also includes a strong commitment to train young and early career researchers, and have an active presence in international networks, contributing to strategic research agendas and engaging with societal stakeholders. As part of its internationalization strategy, CTS members have a strong presence in scientific committees of international conferences, in partnership with relevant societies such as IEEE, IFIP, IFAC, and CIRP. Special attention is devoted to early career researchers with the organization of the series of annual international conferences DoCEIS and YEF-ECE.

RESEARCH HIGHLIGHTS

WORLD-CLASS ADVANCES IN ELECTRONIC TECHNOLOGIES FOR SMART DEVICES: Energy-efficient sensor-to-digital interfaces in deep nanoscale CMOS Technology I Photodetector devices and transducers in a-SiC:H & related materials.

ADVANCES IN SENSOR NETWORKS, SIGNAL PROCESSING AND EMBEDDED SYSTEMS DESIGN: Tools for analysis of time-series of microscopy images with automatic cell.

Segmentation | New methods for Fractional Signal Processing | Target Localization and Tracking in Wireless Sensor Networks (WSN).

CONTRIBUTIONS TO COMPUTATIONAL INTELLIGENCE: Self-healing systems based on Artificial Immune Systems I Intelligent dynamic and adaptable multicriteria decision model for information fusion I Advanced Control in Human-Machine Interaction Systems.

WORLD-CLASS CONTRIBUTIONS TO COLLABORATIVE NETWORKS: Novel models and mechanisms for collaborative networks (CN) and collaborative business services creation | Progress on understanding and modeling behavioral aspects towards collaboration sustainability in business ecosystems |Concept of cooperative Net-Zero Community Building.

SCIENTIFIC AREAS

COGNITIVE CYBER-PHYSICAL SYSTEMS Electronic and Embedded Systems micro- and nano-electronic systems reconfigurable and embedded systems signal processing

Energy Efficiency and Decision Support Systems energy systems control and decision computational intelligence

Computer Engineering Systems collaborative networks and distributed systems robotics and automation interoperability and complexity systems

FACTS AND FIGURES



39 PhD HOLDERS INTEGRATED MEMBERS 34 COLLABORATORS WITH PHD 100 PhD STUDENTS



330 Journal Articles (WoS)
747 Articles in peer reviewed international conferences
51 Book Chapters

- 11 Books
- 5 Patents



2.6M€ FCT, I.P. and Other National Funding 10.8M€ EU and International Funding 616K€ Services

> SCIENTIFIC OUTPUT

5 MAIN PUBLICATIONS (2013-2017 PERIOD)

B. Nowacki; N. Paulino; J. Goes (2017). A Third-Order MASH ΣΔ Modulator Using Passive Integrators. *IEEE Transactions on Circuits* and Systems I: Regular Papers, Volume: 64, Issue: 11, pp 2871 – 2883.

S. Tomic, M. Beko and R. Dinis (2015). RSS-Based Localization in Wireless Sensor Networks Using Convex Relaxation: Noncooperative and Cooperative Schemes. *IEEE Transactions on Vehicular Technology*, vol. 64, no. 5, pp. 2037-2050, May 2015.

D. Rocha, P. Lima-Monteiro, M. Parreira-Rocha, J. Barata (2017). Artificial Immune Systems Based Multi-Agent Architecture to Perform Distributed Diagnosis. *Journal of Intelligent Manufacturing*.

P. Macedo, L. M. Camarinha-Matos (2013). A Qualitative Approach to Assess the Alignment of Value Systems in Collaborative Enterprises Networks, *Journal Computers & Industrial Engineering* 64, 412–424.

R. Jardim-Goncalves, A. Grilo, C. Agostinho, F. Lampathaki, Y. Charalabidis (2013). Systematisation of Interoperability Body of Knowledge: the foundation for Enterprise Interoperability as a science. *Enterprise Information Systems*, 7(1), pp.7–32.

GeoBiotec

> NAME

GEOBIOSCIENCES, GEOTECHNOLOGIES AND GEOENGINEERING

> ACRONYM GeoBiotec

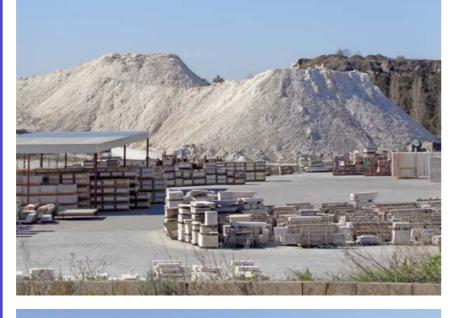
> COORDINATOR José Almeida

> CONTACTS, LOCATION

NOVA School of Science and Technology Department of Earth Sciences Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 573

> WEBSITE sites.fct.unl.pt/geobiotec









BRIEF DESCRIPTION

GEOBIOTEC is a research partnership between the University of Aveiro (UA, general coordination) and the Universities of NOVA of Lisboa (FCT NOVA) and Beira Interior. GeoBioTec develop interdisciplinary studies in geophysics, geochemistry, biology, soil, petrology, mineralogy, industrial minerals, geo materials, geotechnics, isotopic geology, hydrogeology, structural geology, volcanology and remote sensing. It integrates 71 researchers and 65 collaborators and is organized in five research groups, three with researchers from FCT NOVA:

- Georesources, Geotechnics and Geomaterials (3G) geological and geotechnical mapping, modelling and geostatistics, prospection, exploitation and processing of geomaterials, risk analysis.
- Sedimentary Basins and Paleontology sedimentology, tectonics, biostratigraphy, evolution, global changes, geological heritage (FCT NOVA coordination).
- Agro-Forestry biofortification, phytoremediation, production and transformation of raw materials (FCT NOVA coordination).

RESEARCH HIGHLIGHTS

BIOFORTIFICATION | Development of functional vegetable foods, through calcium, magnesium, selenium, zinc biofortification, with potential prophylactic characteristics against several public health problems.

GEOENVIRONMENTAL ENGINEERING | Application of emerging technologies for the assessment, modelling and rehabilitation of degraded industrial areas and with the management of natural, anthropogenic and technological risks. It particularly covers issues related to the characteristics and the behaviour of contaminated ground (soils, rocks and groundwater) and addresses problems associated to waste management and contaminated sites.

GEOLOGICAL MODELLING | Development of computational applications for the construction of 3D geological models by objects of complex structures (fractures and sand channels) and mapping of grades in mineral deposits evidencing strong zoning effects (massive, stockwork, and lenticular mineral deposits), integration of different sources of data.

GEOMATERIALS I Nowadays, more than ever, geomaterials (which include dimension stone, residues and ceramics) research is fundamental for a sustainable human society. The evaluation of the suitability of reusing different residues (foundry industry, waste bricks, sewage sludge, rock sawing waste, bottom ash) in clay mixtures to sintering clay ceramics is very important for construction purposes and is a way to promote the circular economy.

SCIENTIFIC AREAS

Georesources, Geotechnics and Geo-environmental engineering Sedimentary Basins and Paleontology Agro-Forestry – biofortification, phytoremediation



> SCIENTIFIC OUTPUT

5 MAIN PUBLICATIONS (2013-2017 PERIOD)

Antunes MT, Legoinha P, Balbino A (2015) Megalodon, mako shark and planktonic foraminifera from the continental shelf off Portugal and their age. Geologica Acta, 13 (3): 181-190.

Charifo G, Almeida JA, Ferreira A (2013) Managing borehole samples of unequal lengths to construct a high-resolution mining model of mineral grades zoned by geological units. Journal of Geochemical Exploration 132, 209-223.

Haque U, Blum P, da Silva PF, Andersen P, Pilz J, Chalov SR, Malet JP, Auflič MJ, Andres N, Poyiadji E, Lamas PC, Zhang WI, Peshevski I, Pétursson HG, Kurt T, Dobrev N, García-Davalillo JC, Halkia M, Ferri S, Gaprindashvili G, Engström J, Keellings D (2016) Fatal landslides in Europe. Landslides, 1-10. DOI: 10.1007/s10346-016-0689-3.

Kullberg JC, Prego A (2017) The Historical Importance and Architectonic Relevance of the "Extinct" Arrábida Breccia. Geoheritage.

Martins MQ, Rodrigues WP, Fortunato AS, Leitão AE, Rodrigues AP, Pais IP, Martins LD, Silva MJ, Reboredo FH, Partelli FL, Campostrini E, Tomaz MA, Scotti-Campos P, Ribeiro-Barros AI, Lidon FC, DaMatta FM, Ramalho JC (2016) Protective Response Mechanisms to Heat Stress In Interaction With High [C02] Conditions in Coffea spp. Frontiers in Plant Science, 7: art 947.

LAQV

> NAME

ASSOCIATED LABORATORY FOR GREEN CHEMISTRY

> ACRONYM LAQV-REQUIMTE

> COORDINATOR João Crespo

> CONTACTS, LOCATION

NOVA School of Science and Technology Associated Laboratory for Green Chemistry Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 575

> WEBSITE

www.requimte.pt/laqv



BRIEF DESCRIPTION

Associated Laboratory for Green Chemistry, LAQV, is the Portuguese Research Centre for Sustainable Chemistry affiliated to REQUIMTE, a network of Chemistry and Technology originally set up by researchers of the Chemistry Departments of the School of Sciences and Pharmacy of the University of Porto and of the School of Science and Technology of NOVA. In its present configuration, LAQV spreads out of its original location in the two main national metropolitan areas of Porto and Lisbon to cover most of the national territory. Researchers from University of Aveiro have joined LAQV, and the research unit also gathers researchers from the Universities of Coimbra, Évora and Vila Real.

LAQV team made important scientific contributions in Chemical Synthesis and Catalysis, Food Science and Technology, Natural Products, Analytical Monitoring, Intensification of Processes and Clean Technologies, Alternative Solvents, Smart Materials. Remarkably,





Conservation and Restoration of Cultural Heritage at FCT NOVA has been a distinctive contribution of LAQV, where chemical analysis, photochemistry, synthesis of responsive materials paired with history and art studies to provide authoritative reports of art authenticity, and restoration of ancient artefacts.

Likewise, our modern society relies on chemicals and chemical processes for its way of living, but to preserve life and for Sustainable Development a new way of thinking Chemistry has emerged aiming the implementation of clean chemical reactions and processes that reduce the amount of materials, energy, costs and risks.

LAQV aims to promote Sustainable Chemistry through research, networking, training and outreach activities actively contributing to Sustainable Development Goals. To achieve these goals LAQV focuses its activity in six Thematic Lines (TL) aligned with SUSCHEM Research Agenda, EU Horizon 2020 and the UN Sustainable Development Agenda.

The complementary proficiencies to stimulate innovation across these Thematic Lines are provided by ten Research Groups which aggregate scientists who share similar backgrounds: 1. Molecular synthesis, 2. Natural products: chemistry and bioactivity, 3. Analytical development, 4. (Bio)Chemistry & omics, 5. Environmental chemistry, 6. Cultural heritage and responsive materials, 7. (Bio)Chemical process engineering, 8. Materials for sustainability and wellbeing, 9. Nanoplatforms and 10. Food quality and technology.

In conclusion, LAQV is a research-based organization fully integrated in the international environment. LAQV at FCT NOVA will pursue to increase the impact of publications, especially onto the international Green Chemistry community. Furthermore, as a University-based research center, improving training at PhD level and attract the best young researchers is a second key objective. Fulfilling these two core objectives will allow LAQV to: a) seek industrial partners focused on implementing clean technologies and processes; b) co-operation with industrial partners and creation of spin-offs; c) share the principles of Sustainable Chemistry and research outputs with general public, government and industry, thereby increasing its presence in the community; d) assist stakeholders in making decisions on health and safety issues related to (bio)chemical products or processes.

RESEARCH HIGHLIGHTS

LORVÃO BEATUS (1189) UNESCO'S MEMORY OF THE WORLD REGISTER | Interdisciplinary chemical and historical research on the Manuscripts of the Commentary to the Apocalypse (Beatus of Liébana) in the Iberian tradition, leading to the successful entry of 12th century Portuguese Beatus into UNESCO's Memory of the World Register.

HYDROGENATION OF CARBON DIOXIDE TO METHANE BY RUTHENIUM NANOPARTICLES IN IONIC LIQUID | Transformation of carbon dioxide (CO2) into fuels, from methane (CH4), is an excellent alternative to methanol processes.

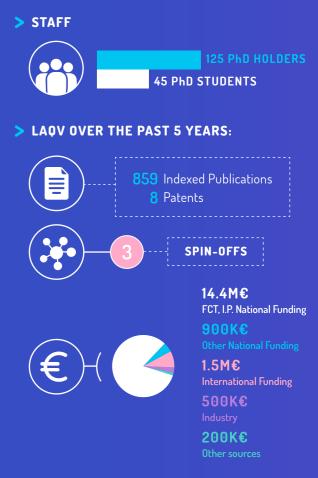
PREDICTION OF CONTAMINATION IN REFINERY WASTEWATER THROUGH MULTIVARIATE STATISTICAL MODELLING | Implementation of this work allowed GALP to save 500 k€/year in wastewater costs and target additional savings of 1.5 M€/year.

WHEN SOLIDS BECOME LIQUIDS: NATURAL DEEP EUTECTIC SOLVENTS FOR CHEMICAL PROCESS ENGINEERING | ERC Consolidator Grant (ERC-2016-CoG 725034).

SCIENTIFIC AREAS

Energy - Clean & Renewable Environment - Monitoring & Analysis Food & Nutrition Functional Materials Health & Wellbeing Resource Efficiency - Sustainable Processing

FACTS AND FIGURES @ FCT NOVA



> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

AB Pereiro et al. JOURNAL OF PHYSICAL CHEMISTRY B, 117, 10826-33. On the formation of a third, nanostructured domain in ionic liquids. 2013.

MB Gawande et al. GREEN CHEMISTRY, 15, 1895-99. Magnetitesupported sulfonic acid: a retrievable nanocatalyst for the Ritter reaction and multicomponent reactions. 2013.

S. Pawlowski et al. JOURNAL OF MEMBRANE SCIENCE, 471, 72–83. Mass transfer in reverse electrodialysis: Flow entrance effects and diffusion boundary layer thickness. 2014.

C Melo et al. CHEMSUSCHEM, 9, 1081-84. Hydrogenation of Carbon Dioxide to Methane by Ruthenium Nanoparticles in Ionic Liquid. 2016.

EM Johnston et al. JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 139, 4462-76. Spectroscopic Definition of the Cu-Z degrees Intermediate in Turnover of Nitrous Oxide Reductase and Molecular Insight into the Catalytic Mechanism. 2017.

LIBPhys

> NAME

LABORATORY FOR INSTRUMENTATION, BIOMEDICAL ENGINEERING AND RADIATION PHYSICS

> ACRONYM LIBPhys

> COORDINATOR José Paulo Santos

Jose Paulo Santos

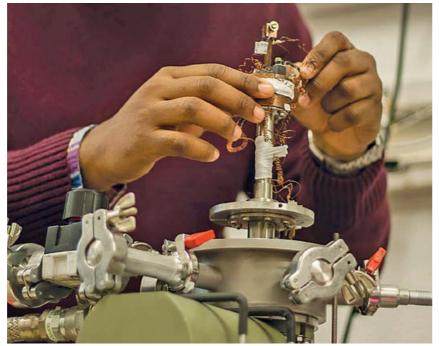
> CONTACTS, LOCATION

NOVA School of Science and Technology Laboratory for Instrumentation, Biomedical Engineering and Radiation Physics Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 576 I +351 212 947 866

> WEBSITE www.libphys.fct.unl.pt









BRIEF DESCRIPTION

The R&D activities of LIBPhys (Laboratory for Instrumentation, Biomedical Engineering and Radiation Physics) develop in three institutions (NOVA University Lisbon, University of Lisbon and University of Coimbra) in the areas of atomic, molecular, nuclear physics and electronic & industrial automation instrumentation with applications to analytical methods, radiation detection and biomedical engineering. To coordinate the scientific research interests, four thematic strands (TS) have been identified, compromising researchers from the three research groups, with several R&D programs established in each TS.

The Fundamental Parameters and Metrology focus on the ability to characterize new materials and products, and detailing chemical and structural (in a wider sense) analysis by electromagnetic radiation, from the infra-red to the x- and gamma-rays ranges, obtaining theoretically and experimentally data related to the interaction of the radiation with matter.

The Cryogenic, Electronics and Radiation Detection Instrumentation aims the R&D of innovative techniques for radiation detection with gaseous detectors, electronics for pulse acquisition and processing, contribution to the R&D of new instrumentation, innovation in cryo energy storage units, heat switches and domestic & industrial energy management systems, also extended to ambient-assisted living, healthcare and security.

The Analytical Techniques Development and Applications aims to promote innovative, high sensitivity & efficiency x-ray spectrometry fluorescence systems for imaging and trace elements detection, combined with vibrational spectrometry, to promote the interdisciplinary of the research and application to preventive conservation, archaeometry, forensic sciences, biophysics, food chemistry, toxicology and environmental control.

The Biomedical Engineering aims at developing new and efficient devices able to provide more detailed information to be used as diagnostics support or to improve therapeutic strategies, e.g. hemodynamic status assessment (macrocirculation and microcirculation), proposal of new methods for electrophysiological signal processing, development of monitoring and tracking devices on the scope of ambient assisted living, rehabilitation and well-being and vegetal and animal living tissue characterization through the use of bio-impedance spectroscopy and tomography techniques.

RESEARCH HIGHLIGHTS

MUONICA ATOMS | Test of fundamental physical models CRYOGENIC ENERGY STORAGE | 300k-5mk cryogenic chain PROJECT HAPPY | Development of toys for children with disabilities using PDA Scientific and Historical Study of Wall Paintings

SCIENTIFIC AREAS

Fundamental Parameters and Metrology Cryogenic, Electronics and Radiation Detection Instrumentation

Analytical Techniques Development and Application

Biomedical Engineering

FACTS AND FIGURES

> STAFF

32 PhD HOLDER: 18 PhD STUDENTS

> LIBPhys OVER THE PAST 5 YEARS:

361 Publications in referee journals (WoS)Patents
43 Publications (other journal or books)
115 Conference proceedings

CONFERENCES AND SEMINARS



170K€ Industry

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Observation of 2p3d(IPo) - 1s3d(IDe) radiative transition in Helike Si, S and Cl ions, S. Kasthurirangan, J. K. Saha, A. N. Agnihotri, S. Bhattacharyya, D. Misra, A. Kumar, P. K. Mukherjee, JP Santos, AM Costa, P. Indelicato, TK Mukherjee, LC Tribedi, Physical Review Letters, 111, 243201 (2013).

Theoretical and experimental determination of L-shell decay rates, line widths, and fluorescence yields in Ge, M Guerra, JM Sampaio, TI Madeira, F Parente, P Indelicato, JP Marques, JP Santos, J Hoszowska, J-Cl Dousse, L Loperetti, F Zeeshan, M Müller, et al., Physical Review A, 92, 022507 (2015).

Determination and Demineralization depth in tooth emanel exposed to abusive use of whitening gel using micro-Energy Dispersive X-ray Fluorescence, Pessanha, S., Coutinho, S., Carvalho, M. L., Silveira, J.M., Mata, A. Spectrochimica Acta - Part B Atomic Spectroscopy 138, 8 (2017).

Quantitative analysis of human remains from 18th-19th centuries using X-ray fluorescence techniques: the mysterious high content of mercury in hair, S. Pessanha. M. Carvalho, M. L. Carvalho and A.A.Dias, Journal of Trace Elements in Medicine and Biology, 33, 26 (2016).

Early-stage white matter lesions detected by multispectral MRI segmentation predict progressive cognitive decline. H Jokinen, N Gonçalves, R Vigário, J Lipsanen, F Fazekas, R Schmidt, F Barkhof, P Scheltens, S Madureira, A Verdelho et al., Frontiers in Neuroscience, 9, 455 (2015).

MARE

> NAME

MARINE AND ENVIRONMENTAL SCIENCES CENTRE

> ACRONYM MARE

> COORDINATOR

Maria Helena Costa

> CONTACTS, LOCATION

NOVA School of Science and Technology Marine and Environmental Sciences Centre Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 576 | +351 212 947 866

> WEBSITE

www.mare-centre.pt











BRIEF DESCRIPTION

MARE was established in 2013. MARE - NOVA constitutes a Unit of MARE - Marine and Environmental Sciences Centre for research, technological development and innovation. Its mission is to seek excellence in the study of environment and disseminate knowledge to support policies for sustainable development. This mission is achieved through scientific research, education and knowledge and technology transfer to industry, as well as through the dissemination of science, establishing collaborative networks at the regional, national and international levels. MARE-NOVA has 41 integrated members, working mainly in the mentioned five research lines, being the coordinator of the Environmental Risk and Governance and literacy thematic lines. Its main research projects address the issues: Environmental toxicology & biotechnology, Microplastics and marine litter, Governance and Wastes management.

Main objectives:

- Advance the knowledge on the functioning of marine ecosystems, and interrelated estuarine and freshwater systems;
- Develop scientific and technological tools towards the sustainable use of freshwater, estuaries and marine ecosystems under the framework of regional, national and international priorities;
- Develop scientific knowledge and sound technology to help providing food and other biotic and non-biotic resources to society;
- Promoting good ecological and healthy status of oceans and seas, estuaries and river basins;
- Drive international cooperation to advanced education and training resulting in a new generation of scientists and professionals prepared for the Blue Economy;
- Promote Ocean literacy and contribute to a participative Blue Society.

RESEARCH HIGHLIGHTS

ENVIRONMENTAL TOXICOLOGY & BIOTECHNOLOGY

Project **HERA** | Environmental Risk Assessment of a contaminated estuarine environment.

WASTES MANAGEMENT

Project **Be Nature** | Exploiting carbohydrates leather and footwear biodegradable development.

MARINE LITTER

Project **MARLISCO** | MARine Litter in Europe Seas: Social AwarenesS and CO-Responsability.

GOVERNANCE

Project MARGov | Collaborative Governance of the Protected Marine Areas.

SCIENTIFIC AREAS

Study of aquatic ecosystems, hydraulics, hydrology and sedimentary environments

Environmental toxicology, biotechnology and environmental risk

Marine litter and Waste valorisation and management

Governance and environmental literacy of marine areas

FACTS AND FIGURES

> STAFF



41 PhD HOLDERS 11 PhD STUDENTS

> PUBLICATIONS (2015-2017 PERIOD)



85 Articles (WoS) 12 Book chapters

Conference communications



258K€ FCT, I.P. National Funding

238K€

66K€

Public Sources

249K€ Other Services

> SCIENTIFIC OUTPUT

5 MAIN PUBLICATIONS (2013-2017 PERIOD)

Almeida, M. C.; Coelho, P. S.; Rodrigues, A. C.; Diogo, P. A.; Maurício, R.; Cardoso, R. M.; Soares, P. M. (2015). Thermal stratification of Portuguese reservoirs: potential impact of extreme climate scenarios. Journal of Water and Climate Change, 06.3.pp. 544–560.

Pires, A.; Martinho, G.; Chang, N.-B. (2011). Solid waste management in European countries: a review of systems analysis techniques. Journal of Environmental Management, 92 (4), 1033-1050.

Caeiro, S.; Costa, M. H.; Ramos,T. R.; Fernandes, F.; Silveira, N.; Coimbra, A.; Medeiros, G.; Painho, M. (2005). Assessing heavy metal contamination in Sado Estuary sediment: an index analysis approach. Ecological indicators, 5(2), pp. 151-169.

Frias, J.P.G.L.; Sobral, P.; Ferreira, A.M. (2010). Organic pollutants in microplastics from two beaches of the Portuguese coast. Marine Pollution Bulletin, 60 (11), pp. 1988-1992.

Vasconcelos, L.; Ramos Pereira, M.J.; Caser, U., Gonçalves, G.; Silva, F., Sá, R. (2013) MARGov -Setting the ground for the governance of Marine Protected Areas. Ocean & Coastal Management, 72, pp. 46-53.

MEtRICs

> NAME

MECHANICAL ENGINEERING AND RESOURCE SUSTAINABILITY CENTER

> ACRONYM MEtRICs

> COORDINATOR Benilde Mendes

> CONTACTS, LOCATION

NOVA School of Science and Technology Mechanical Engineering and Resource Sustainability Center Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 543

> WEBSITE

www.metrics.unl.uminho.pt



Mechanical Engineering and Resource Sustainability Center







BRIEF DESCRIPTION

METRiCS is a research centre in association, bringing together researchers of Engineering Schools – University of Minho and School of Science and Technology – NOVA University Lisbon, on the forefront of Mechanical, Materials and Biomedical Engineering, Energy and Bioenergy and Food Quality. The research activities focus on scientific and technological developments on advanced engineering design of mechatronic systems for health support, green mobility systems, conversion of renewable resources in biomaterials, bioliquids and biofuels, sustainable agriculture and forestry, food security and quality and recycling of biomass wastes. The centre activities are also embedded in the Centre for Residue Valorisation (CVR) and the Network for Bioenergy (CEBio). The centre cooperates with SMEs, European countries, emerging economies and developing countries for fostering industrial innovation and competitiveness.

RESEARCH HIGHLIGHTS

Strong collaboration with industry

- 36 technology transfer projects and 82 industrial projects with national companies (2014-2017)
- Average of 90 MSc thesis per year in corporate environment (partnerships with national companies)

Provider of technical solutions and scientific knowledge for a cleaner, safer and sustainable world.

Regular participation in European and International Networks

 EIP-Agri - Agricultural European Innovation Partnership | EUBREN - The European Biomass Research Networkl RedSumas - Sustentabilidad Energética, Medio Ambiente y Sociedad | AAIC - Association for the Advancement of Industrial Crops)

Regular participation in European projects - 15 (2014-2017).

SCIENTIFIC AREAS

Bioenergy & biofuels Energy crops Waste valorization Food technology and packaging

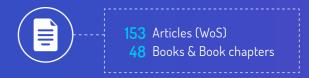
FACTS AND FIGURES



> STAFF

24 PhD HOLDERS (5@NOVA) 50 PhD STUDENTS (28@NOVA)

> MEtRICs OVER THE PAST 5 YEARS:





1.4M€ FCT, I.P. National Funding 4.9M€ Other National Funding

953K€ International Funding

SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Benites, A.J., Fernandes, M., Boleto, A.R., Azevedo, S., Silva, S., Leitão, A.L. (2017) Occurrence of ochratoxin A in roasted coffee samples commercialized in Portugal. Food Control 73: 1223-1228.

Correia R, Gonçalves M, Nobre C, Mendes B (2017) Impact of torrefaction and low-temperature carbonization on the properties of biomass wastes from Arundo donax L. and Phoenix canariensis, Bioresource Technology, 223, 210–218.

Fernando AL, Costa J, Barbosa B, Monti A, Rettenmaier N (2018) Environmental impact assessment of perennial crops cultivation on marginal soils in the Mediterranean Region, Biomass & Bioenergy, 111, 174-186.

Souza VGL, Fernando AL, Pires JRA, Rodrigues PF, Lopes AAS, Braz-Fernandes FM (2017) Physical properties of chitosan films incorporated with natural antioxidants, Industrial Crops and Products, 107, 565-572.

Sánchez, C., Vasilenko, P., Santos, M., Duarte, M.P., Loebler, M., Cruz, A.S., Gonçalves, M. (2016) Potential Application of Portuguese Propolis to Control Blue Mold Disease in "Rocha" Pear. Acta Horticulturae, 1144, 359-364.

NOVA SCHOOL OF SCIENCE AND TECHNOLOGY NOVA LINCS

> NAME

NOVA LABORATORY FOR COMPUTER SCIENCE AND INFORMATICS

> ACRONYM NOVA LINCS

> COORDINATOR

Luís Caires

> CONTACTS, LOCATION

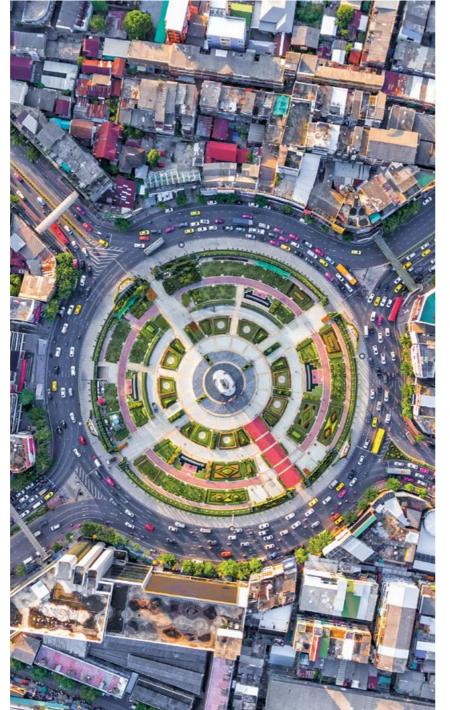
NOVA School of Science and Technology NOVA Laboratory for Computer Science and Informatics Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 536

> WEBSITE

nova-lincs.di.fct.unl.pt







BRIEF DESCRIPTION

NOVA LINCS is a leading research unit in Computer Science and Informatics Engineering, hosted at the Informatics Department of School of Science and Technology of NOVA University Lisbon (FCT NOVA), a pioneering national institution in the field. The mission of NOVA LINCS is to develop cutting edge scientific research in key areas of Computer Science and Informatics, contribute to advanced education in the field, and share the produced knowledge, results, and innovation with users and communities within society. Our research roadmap targets the theme "Science and Engineering for the Global Software Ecosystem". It unfolds in two lab-wide interacting streams: one on creating new foundations and engineering for the emergent computing and software ecosystems, another on developing innovative IT powered solutions for diverse technical, societal, and interdisciplinary fields such as service innovation, creative industries, healthcare, engineering, cyberphysical environments, sustainability and territory, cultural heritage, sports, arts, and entertainment.

RESEARCH HIGHLIGHTS

LEVERAGING CLOUD AND EDGE COMPUTING

New principles and methods to make global-scale information systems faster, more reliable, and more secure, leveraging cloud computing and georeplication. I New solutions and tools to build services that span from the cloud to the edge, including mobile devices, sensors, and all kinds of smart "things".

SOFTWARE FOR BUILDING BETTER SOFTWARE SYSTEMS

New principles, methods, languages, and tools for automating software development, making it more trustworthy, more flexible, and more usable. I Smarter development environments will help everyone to build better, bug free, and easy to adapt software.

BIG DATA AND INTELLIGENT DATA ANALYSIS

New artificial intelligence principles and solutions to deal with dynamic heterogeneous knowledge sources, automate reasoning in the web, and extract explanations from neural-based systems. Leveraging big data sources for supporting intelligent decision-making.

INTERACTIVE MULTIMODAL SOLUTIONS

New techniques to process and interact with multimodal content in different contexts using multiple devices and modes, based on computer vision, touch and other devices to augment user interaction. Tools for interactive authoring and multimodal data search and classification.

SCIENTIFIC AREAS

Computation and Information sciences

Computer Systems Knowledge-Based Systems Multimodal Systems Software Systems

FACTS AND FIGURES

> STAFF

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57 PhD HOLDERS

> NOVA LINCS OVER THE PAST 5 YEARS:

106 Articles

Articles in peer review

international conferences

1 Patent



702K€

FCT, I.P. National Funding

2.6M€ Competitive Funding

1.3M€ International Funding 1.1M€

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Valter Balegas, Sérgio Duarte, Carla Ferreira, Rodrigo Rodrigues, Nuno Preguiça, Mahsa Najafzadeh, and Marc Shapiro. 2015. Putting consistency back into eventual consistency. In Proceedings of the Tenth European Conference on Computer Systems (EuroSys '15). ACM, New York, NY, USA, Article 6, 16 pages.

Tobias Kaminski, Matthias Knorr, and João Leite. 2015. Efficient paraconsistent reasoning with ontologies and rules. In Proceedings of the 24th International Conference on Artificial Intelligence (IJCAI'15), Qiang Yang and Michael Wooldridge (Eds.). AAAI Press 3098-3105.

Luísa Lourenço and Luís Caires. 2015. Dependent Information Flow Types. In Proceedings of the 42nd Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages (POPL '15). ACM, New York, NY, USA, 317–328.

Flávio Martins, João Magalhães, and Jamie Callan. 2016. Barbara Made the News: Mining the Behavior of Crowds for Time-Aware Learning to Rank. In Proceedings of the Ninth ACM International Conference on Web Search and Data Mining (WSDM '16). ACM, New York, NY, USA, 667-676.

Catarina Gralha, Daniela Damian, Anthony I. (Tony) Wasserman, Miguel Goulão, and João Araújo. 2018. The evolution of requirements practices in software startups. In Proceedings of the 40th International Conference on Software Engineering (ICSE '18). ACM, New York, NY, USA, 823-833.

UCIBIO

> NAME

APPLIED MOLECULAR BIOSCIENCES UNIT

> ACRONYM UCIBIO

> COORDINATOR Maria João Romão

> CONTACTS, LOCATION

NOVA School of Science and Technology Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 575

> WEBSITE

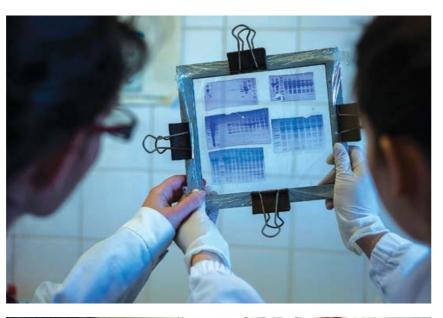
www.ucibio.pt



BRIEF DESCRIPTION

UCIBIO, the Research Unit on Applied Molecular Biosciences, develops and disseminates scientific knowledge at the frontier of Chemistry and Biology, providing solutions for today's societal challenges towards improving health and wellbeing and promoting the bioeconomy.

Created in 2015, UCIBIO results from the collaborative efforts of researchers from NOVA and from University of Porto.







UCIBIO's key strength lies on its broad scope of fundamental and applied research, standing at the interface of Chemistry, Biology and Engineering to address pertinent questions at atomic, molecular, sub-cellular and cellular levels.

By combining key expertise in Chemistry and Biological Sciences, the UCIBIO team has led to important contributions with potential applications at areas of interface, addressing major societal challenges, such as: drug development and discovery; mechanisms of drug resistance; the fight of microbial virulence; nano(formulations) for smart therapeutics; renewable sources for innovative biopolymers; safety assessment in human and environmental health.

Research at UCIBIO is highly interdisciplinary and integrative being organized around 8 Research Groups (RG) with different but complementary backgrounds that reflect our research strengths: Structural Molecular Biology (SMB); Molecular Microbiology & Genomics (MMG); Theoretical & Computational Biochemistry (TCB); Toxicology (TOXI); Drugs Targets & Biomarkers (DTB); NanolmmunoTech (NIT); Bioengineering (BENG) and Medicinal Technology (MEDTECH).

To fulfill its strategic goals, UCIBIO's research is centered on four Thematic Lines (TL) that define focus areas of research to which the Research Groups contribute with their expertise: TL1 - Biological & Biomolecular Interactions; TL2 - Diagnostics, Drug Discovery & Development; TL3 - Safety In Human & Environmental Health; TL4 - (Nano)Bioengineering.

The organizational structure of UCIBIO supports its strategic plan, echoing the research strengths and synergies within and between TLs and RGs. UCIBIO's portfolio of competences allows addressing complex problems from different but complementary angles, using fundamental and applied perspectives.

UCIBIO facilities and infrastructures (www.ucibio.pt) support our researchers and provide services to Industry and Academia (e.g. Biological and Chemical Analysis Facility, BioLab (https://sites. fct.unl.pt/biolab); NMR Facility; X-ray Facility; Portuguese Yeast Culture Collection, (pycc.bio-aware.com), Pilot Installation.

RESEARCH HIGHLIGHTS

NON-INVASIVE DIAGNOSTICS | Hybrid Gels for Rapid Microbial Detection ERC Starting grant (SCENT-ERC-2014-STG-639123) Patent PCT/IB2016/050697, EP16709585.0 & US 15/549,920

EXPLOITING CARBOHYDRATES IN CANCER AND IMMUNE SYSTEM FOR DIAGNOSIS AND THERAPY | Impact & Outcomes: Molecular mechanisms of disease; New biomarkers; Novel therapies; Antibody production.

PATENT PT110526: Antibody, functional fragment or probe thereof against tumour antigens.

NANODIAGNOSTICS RESEARCH TO PROVIDE INNOVATIVE SOLUTIONS FOR ONE STEP MOLECULAR IDENTIFICATION OF DNA/RNA AT POINT-OF-CARE (POC)

Spin-off: Nano4Global

Nano4Global selected for WebSummit 2016; finalist of NOS Innovation Award; 2017 SME Instruments phase 1 winner; 2018 SME Instruments phase 2 winner; P2020 grant.

PATENTED PROCESSES FOR THE PRODUCTION OF BIOPOLYMERS FROM FOOD AND INDUSTRIAL BYPRODUCTS

EC-H2020-773872 YPACK; EC-H2020-773375 GL0PACK; EC-H2020-730349 RES-URBIS

Spin-offs: 73mil e 100 l aqua in Silico

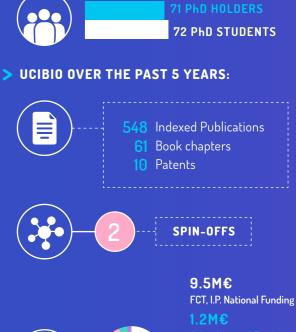
Collaborations with Industry: Águas de Portugal | Sumol+Compal |Biotrend | Pharma 73

SCIENTIFIC AREAS

> STAFF

Biological & Biomolecular Interactions Diagnostics, Drug Discovery and Development Safety in Human and Environmental Health (Nano)Bioengineering

FACTS AND FIGURES @ FCT NOVA



1.2 M€ Other National Funding 4.4 M€ International Funding

700K€ Industry 300K€

Other Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

AR Fernandes et al. J CONTROL RELEASE, 245, 52-61. Multifunctional gold-nanoparticles: a nanovectorization tool for the targeted delivery of novel chemotherapeutic agents. **2017**.

A Hussain et al. ADV FUNCT MATER, 1700803,1-9. Tunable Gas Sensing Gels by Cooperative Assembly. **2017**.

M Gonçalves et al. CURR BIOL, 26, 2750–2761. Distinct domestication trajectories in top-fermenting beer yeasts and wine yeasts. **2016**.

H Coelho et al. J AM CHEM SOC, 137, 1243. The quest of anti-cancer vaccines: Deciphering the fine-epitope specificity of cancer-related monoclonal antibodies by combining microarray screening and STD-NMR. **2015**.

C Coelho et al. NATURE CHEM BIOL, 11, 779-783. Structural insights into xenobiotic and inhibitor binding to human aldehyde oxidase. **2015**.

> NAME

RESEARCH AND DEVELOPMENT UNIT IN MECHANICAL AND INDUSTRIAL ENGINEERING

> ACRONYM UNIDEMI

> COORDINATOR António Grilo

> CONTACTS, LOCATION

NOVA School of Science and Technology Dept. Mechanical and Industrial Eng. Campus de Caparica, 2829-516 Caparica, Portugal +351 212 948 542

> WEBSITE www.unidemi.com











BRIEF DESCRIPTION

The UNIDEMI (Research and development Unit in Mechanical and Industrial Engineering) is a research centre of NOVA University Lisbon that aims to achieve world class Excellence in research, development and entrepreneurial results in the scientific areas of Mechanical Engineering and Industrial Engineering and Management. UNIDEMI structure has 3 research groups: Systems Engineering and Management (SEM) that focus on themes of industrial systems design, engineering and management; Manufacturing and Technology Automation (MTA) has a focus on advanced manufacturing processes oriented to laser welding, friction stir processing, composites machining and non-destructive testing; and Fluid and Structures Engineering (FSE), with a focus on areas of fluid-structure interaction, related to efficient energy production and its utilization, and design of coastal structures and reliability of marine structures. Over the years, UNIDEMI has developed strong links with leading international academic partners and national industrial companies.

RESEARCH HIGHLIGHTS

Research topics are anchored in each of the thematic lines, but with a strong emphasis on the synergies that can be promoted:

FUTURE SUSTAINABLE DIGITAL FACTORIES AND SERVICES

- Lean, Green and Sustainability
- Supply Chain Management
- Digital Platforms
- Design Thinking and Systematic Innovation
- Quality Engineering
- Service Design and User Centered Design
- Axiomatic Design Theory
- Human-Systems Interfaces for Cognitive
- Ergonomics.

ADVANCED MANUFACTURING PROCESSES

- Welding
- Friction stir processing
- Composites machining
- Destructive and nondestructive testing, in different materials, and manufacturing and operational contexts
 Innovative manufacturing processes
- FI UID AND STRUCTURES

FLUID AND STRUCTURES

- Geometric and topologically optimized structures with different materials
- Aerodynamic studies
- Design and engineering of structures based on composite materials
 Structural studies on 3D and additive manufacturing elements

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SCIENTIFIC AREAS

Systems Engineering and Management Manufacturing and Technology Automation Fluids and Structures Engineering

FACTS AND FIGURES



> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS (2013-2017 PERIOD)

Cabral, I., Grilo, A., Gonçalves-Coelho, A. and Mourão, A. (2016) An agentbased model for analyzing the impact of business interoperability on the performance of cooperative industrial networks. Data and Knowledge Engineering, Volume 105, Pages 107-129.

Coelho, P.G., Guedes, J.M., Rodrigues, H.C., (2015), Multiscale topology optimization of biomaterial laminated composite structures, Composite Structures, 132, pp. 495-505.

Govindan, K., Azevedo, S.G., Carvalho, H., Cruz- Machado, V., (2014). Impact of supply chain management practices on sustainability. Journal of Cleaner Production 85, pp. 212-225.

Oliveira, J.P.; Miranda, R.M., and Braz Fernandes, F.M. (2017). Welding and Joining of NiTi Shape Memory Alloys: A Review. Progress in Materials Science, Volume 88, July 2017, Pages 412-466.

Santos, T.G., Miranda, R. M., Carvalho, C. C. R. (2014). A New NDT Technique Based on Bacterial Cells to Detect Micro Surface Defects, NDT & E International, 63, pp. 43-49.

> NAME GLASS AND CERAMIC FOR THE ARTS

> ACRONYM VICARTE

> COORDINATOR Márcia Vilarigues

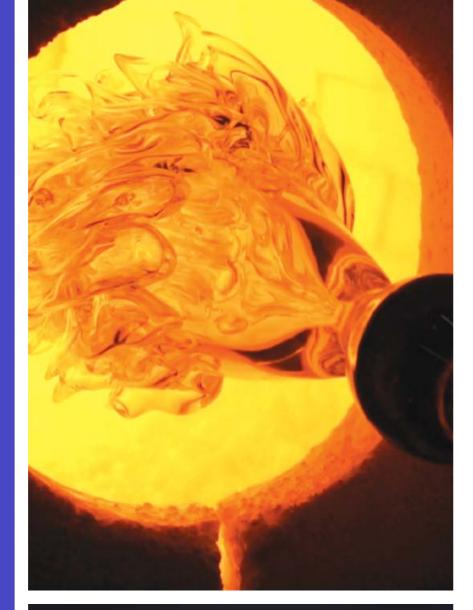
> CONTACTS, LOCATION

NOVA School of Science and Technology Campus de Caparica, 2829-516 Caparica, Portugal +351 212 947 893

> WEBSITE

vicarte.org









BRIEF DESCRIPTION

The Research Unit VICARTE – Glass and Ceramic for the Arts is devoted to the promotion of transdisciplinary research applied to glass and ceramics, focusing on the intersections between art and science, stimulating sharing of knowledge, experiences and methodologies. The mission of VICARTE is to promote excellence in glass and ceramics studies at national and international level. The research at VICARTE connects the present and the past, by studying traditional and historical practices, by developing new materials and by exploring different artistic concepts. We are committed to uphold and surpass VICARTE's reputation as an RU that leads worldwide cross-disciplinary research, innovation and creativity in glass and ceramics studies applied to science, art, design and cultural heritage.

VICARTE is designed to weave together diverse strands of expertise in glass and ceramic, to create a web of knowledge by connecting creative minds across disciplines, encouraging experimentation, risk taking and highly imaginative problem solving.

RESEARCH HIGHLIGHTS

Biographies – making history through objects made of glass and Ceramics Telling the story of the objects that have accompanied mankind throughout most of its history and continue to capture our attention, curiosity and imagination.

We are focused on the study and critical analysis of how historical glass and ceramic has developed over time, including raw materials, production and practices, use, commercial routes and cultural interactions. This research will analyze the choices behind the production, shapes and uses of the objects to construct a bigger narrative from individual microscale stories. These historical objects are not merely curiosities, sometimes beautiful in their physical appearance. Many of them have fascinating stories very worth telling, and we suggest those stories are very worth hearing as well.

Luminescent glasses - Creating innovation in Art and Industry

Previous research developed with LAQV@REQUIMTE will extend to the production of innovative cost effective luminescent glasses and surface coloring coatings. Several approaches and products are explored, including the use of economically viable elements to obtain luminescence in glass and new luminescent surface coloring coatings using non-toxic glass-based paints and zeolites, to be applied on glass substrates using low-cost techniques, as spray or silk screen-printing.

This work will result in new photophysical properties, commercial opportunities for new design products, luminescent solar concentrators and in art making.

Innovative Strategies for Traditional Colors in Glass Materials

Promoting sustainable new materials and low-cost production processes aiming to contribute to a more versatile industry. With this approach, VICARTE will open new creative pathways for artists, allowing the manipulation of aesthetic effects by pioneering new materials and refining processes, and thus inspiring the creation of new artworks.

Art and Crafts with Ceramic and Communities

Disclosing and reinterpreting traditional techniques, exploring their translation into contemporary applications, aiming to design sustainable practices and transmission of traditional knowledge. Encouraging the sharing of know-how between generations through collaborations with artists and artisans on the international and local levels as a stimulus for the creation of a renewed market.

SCIENTIFIC AREAS

Glass and Ceramics in Contemporaneity and in Cultural Heritage:

- to investigate and expand, both practically and theoretically, the ways in which artists and scientists think about and work with glass and ceramic,

- to support cutting-edge research with a strong impact on the history, preservation and appreciation of our cultural heritage.

FACTS AND FIGURES STAFF 20 PhD H0LDERS 20 PhD H0LDERS

SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

The effect of three luminescent ionic liquids on corroded glass surfaces – first step into stained glass cleaning", M. Vilarigues et al., Corrosion Science, 118:109-117 (2017).

The Gourds: A Shape of Portuguese Production?, I. Coutinho et al., Journal of Glass Studies Vol. 59: 215-234 (2017)

A multiproxy approach to evaluate biocidal treatments on biodeteriorated majolica glazed tiles, M.L. Coutinho et al., Environmental Microbiology, 18: 4794-4816 (2016).

Photoluminescent Nanocrystals in a Multicomponent Aluminoborosilicate Glass, A. Ruivo et al., Journal of Physical Chemistry C, 120 (43): 24925-24931 (2016).

Art and Science: New Approaches in the Making, Process, and Development of New Materials, T. Almeida et al., The International Journal of New Media, Technology and the Arts, 1-14, (2015).

CESEM

> NAME

CENTRE FOR THE STUDY OF THE SOCIOLOGY AND AESTHETICS OF MUSIC

> ACRONYM CESEM

> COORDINATOR Manuel Pedro Ferreira

> CONTACTS, LOCATION

NOVA School of Social Sciences and Humanities Edifício I&D – salas 301 a 303 e 319 Avenida de Berna, 26, 1069-061 Lisboa, Portugal +351 217 908 300

> WEBSITE www.cesem.fcsh.unl.pt







SOCIOLOGICAME AS VIVÊNCIAS MUSICAI 14/02/15 SALA MULTIUSOS 2. PISO 4. ED I&D

PENSAR

BRIEF DESCRIPTION

CESEM is a research unit committed to the study of Music and its correlations with the other arts and the social and cultural fields, addressing a variety of approaches—sociological, aesthetic, historical, philological, compositional, and performative—and engaging with the most recent perspectives and methodological trends in the Social and Human Sciences. Core areas of study on Music in CESEM include history and cultural heritage, repertories and their sources, socio-communicative models and reception, cognitive and psychoacoustical processes, and applied music technologies. International recognition has been achieved by CESEM in all these areas through the high quality and innovative character of its output, published in traditional media and the internet.

Research at CESEM takes largely an interdisciplinary approach and is structured internally in five Research Groups: 1- Early Music Studies; 2- Music in the Modern Period (with one nucleus: Caravelas Study Group for the History of Music in Portugal and Brazil); 3- Contemporary Music; 4- Critical Theory and Communication (with four nuclei: Music Iconography, Advanced Studies in Music and Cyberculture, Studies in Music and Gender, and Studies in Music in the Press); and 5- Music Education and Human Development.

CESEM runs three laboratories at NOVA School of Social Sciences and Humanities, equipped for specific tasks: 1- LIM-Music Computing Lab, a facility for electroacoustic research; 2-LAMCI-Music and Communication in Infancy Lab, created under the project "Musical Development in Childhood and Infancy". 3-LAPEM-Palaeography and Music Editing Lab, supports source studies, specialized databases and palaeographic and music editing tasks.

RESEARCH HIGHLIGHTS

DEVELOPMENT AND MAINTENANCE OF OPEN ACCESS DATABASES AND ARCHIVES:

Caravelas Biographic Dictionary | www.caravelas.com.pt/dicionario_biografico_ caravelas.html

Portuguese Early Music Database | pemdatabase.eu

Arquivo José Mário Branco I arquivojosemariobranco.fcsh.unl.pt

OPEN-ACCESS ONLINE PUBLICATIONS:

The Notation of the Cantigas de Santa Maria: Diplomatic Edition, 3 volumes, dir. Manuel Pedro Ferreira.

http://cesem.fcsh.unl.pt/en/a-notacao-das-cantigas-de-santa-maria-edicao-diplomatica/

CO-EDITION of the *Portuguese Journal of Musicology*, new series http://rpm-ns.pt/index.php/rpm

PROJECT "GermInArte", resulting from a partnership between CESEM's Music and Communication in Childhood Lab and Companhia de Música Teatral, with the support of the Calouste Gulbenkian Foundation I PI: Helena Rodrigues.

FCT-funded project "The Anatomy of Late 15th and Early 16th Century Iberian Polyphonic Music" | PTDC/CPC-MMU/0314/2014 | PI João Pedro d'Alvarenga.

SCIENTIFIC AREAS

Historical Musicology Philosophy and Sociology of Music Music Psychology and Pedagogy Music Technologies, Theory and Composition Musical Heritage: Identification and Preservation Music Creation and Practice: Contexts and Dynamics



> SCIENTIFIC OUTPUT

5 MAIN PUBLICATIONS (2013-2017 PERIOD)

João Pedro CACHOPO, "Opera's Screen Metamorphosis: The Survival of a Genre or a Matter of Translation", The Opera Quarterly, 30/4 (2014), pp. 315-29.

Luísa CYMBRON, "Camões in Brazil: Operetta and Portuguese Culture in Rio de Janeiro, circa 1880", The Opera Quarterly, 30/4 (2014), pp. 330-61.

Manuel Pedro FERREIRA, "The Medieval Fate of the Cantigas de Santa Maria: Iberian Politics Meets Song", Journal of the American Musicological Society, 69/2 (2016), pp. 295-353.

Ivan M00DY, "The Invention of Tradition: Balkan and Mediterranean Perspectives in 20th Century Opera", Matica Srpska. Journal of Stage Arts and Music, 56 (2017), pp. 29-41.

João REIGADO, Helena RODRIGUES, "Vocalizations Produced in the Second Year of Life in Response to Speaking and Singing", Psychology of Music, 1-12 (2017).

CETAPS

> NAME

CENTRE FOR ENGLISH. TRANSLATION AND ANGLO-PORTUGUESE STUDIES

> ACRONYM CETAPS

> COORDINATOR Carlos Ceia

> CONTACTS. LOCATION

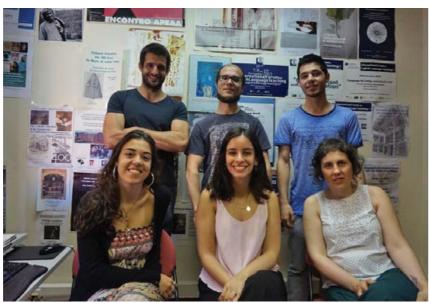
Lisbon Branch NOVA School of Social Sciences and Humanities Avenida de Berna, 26. 1069-061 Lisboa, Portugal +351 217 908 300 | cetaps@fcsh.unl.pt

Porto Branch COORDINATOR Fátima Vieira Faculty of Arts and Humanities of University of Porto Via Panorâmica. s/n. 4150-564 Porto, Portugal +351 226 077 100 | cetaps@letras.up.pt

> WEBSITE www.cetaps.com









BRIEF DESCRIPTION

CETAPS is committed to research in English, Translation, and Anglo-Portuguese Studies, bringing together 141 individuals. Our research rationale is interlingual and intercultural and includes areas such as Anglophone and Portuguese Cultures and History, Shakespeare's studies, utopianisms, medial and textual transits in Ireland and Britain, and teacher education and applied language studies. CETAPS is a joint research unit working at NOVA School of Social Sciences and Humanities and at the Faculty of Letters of the University of Porto, and hosts researchers from 11 different institutions in Portuguese Higher Education. CETAPS is organized into flexible and collaborative Research Areas (RAs), some of them accommodating Research Strands (RSs), under the same strategic programme called: CULTURE, LANGUAGE, MOBILITY. A PROGRAMME FOR INTERCULTURAL RESEARCH.

CETAPS has founded the platform JRAAS (Junior Researchers in Anglo-American Studies), which straddles our Lisbon and Porto academic venues, and aims to give junior researchers the opportunity to develop competences in such areas as science communication, preparing abstracts, posters and papers, and organizing conferences.

Functionally, CETAPS is guided by the aim of fostering a collaborative and integrative research culture, while at the same time finetuning the relation between providing innovative teaching, offering the best conditions for the development of high-quality research, and investing in high-impact knowledge transfer, reaching out to non-academic environments and addressing societal challenges. Our plans for 2019-2022 reflect our 7 strategic goals (http://www.cetaps.com/strategic-project/), and include an integrated programme of 40 events and over 30 edited books and monographs, a structured communication and publication policy, involvement in international networks, 2 online courses, and the development of our databases and of our digital lab. The latter will allow us to explore the pedagogic, research and communication potential of digital resources by awarding doctoral and postdoctoral fellowships to early-stage researchers for projects relevant to CETAPS' Research Areas and Research Strands.

RESEARCH HIGHLIGHTS

CETAPS has 3 funded projects:

ALIMENTOPIA I www.alimentopia.oxys.pt

A research project hosted by ILCML and CETAPS and funded by FCT/ COMPETE which offers a multi-disciplinary approach to the discussion about future conditions of food production and consumption through holistic and prospective utopian thinking.

NEW FACES I www.new-faces-erasmusplus.fr

"Facing Europe in Crisis: Shakespeare's World and Present Challenges", is a European Strategic Partnership that aims to promote historical and literary understanding of the complexities of crises (cultural, linguistic, political, social, religious, and economic), to help face a complex contemporary European context.

"Valongo, Cidade Utópica", integrated in the major project: UTOPIA500 | www.utopia500.net/valongo

DIGITAL LAB | https://sites.google.com/g.uporto.pt/digitallab/home

CETAPS has founded a digital lab, which has allowed us to explore the pedagogic, research and communication potential of digital resources by awarding doctoral and postdoctoral fellowships to early-stage researchers

SCIENTIFIC AREAS

Shakespeare and The English Canon: History, Criticism, Translation Relational Forms: Medial and Textual Transits in Ireland and Britain Working CLIL

FACTS AND FIGURES

> STAFF

50 PhD HOLDERS 94 COLLABORATORS

> CETAPS OVER THE PAST 5 YEARS:



94 Articles

24 Books 68 Book Chapters 17 SCOPUS Articles

> Conferences. Symposia and Seminars



SCIENTIFIC OUTPUT **5 MAIN PUBLICATIONS**

Bennett, Karen (2017). Foucault in English: the politics of exoticization. Target - International Journal of Translation Studies, 2017.29/2.224-245.

Castanheira, Maria Zulmira. "A Dog and Three Englishmen": Representations of the English and of English National Identity in Alexandre Herculano's De Jersey a Granville (1843). Interrogating Gazes: Comparative Critical Views on the Representation of Foreignness and Otherness. Edited by Monserrat Cots, Pere Gifra-Adroher & Glyn Hambrook. Bern 2013.

Ceia, Carlos (2016). "Genre Categorization in Contemporary British and US-American Novels". CLCWeb: Comparative Literature and Culture. Volume 18, Issue 3, ISSN 1481-4374, Purdue University Press.

Gomes, Miguel Ramalhete (2014). Texts Waiting for History: William Shakespeare Re-Imagined by Heiner Müller, Amsterdam, New York. Rodo.

Vieira, Fátima, (2017). "From the political utopia to the philosophical utopia: And rescuing the political utopia, on second thought", Utopian horizons: Ideology, politics, literature, ed. Zsolt Czigányik, Budapest, Central European University Press, pp. 63-76.

CHAM

> NAME CENTRE FOR THE HUMANITIES

> ACRONYM CHAM

> COORDINATOR João Paulo Oliveira e Costa

> CONTACTS, LOCATION

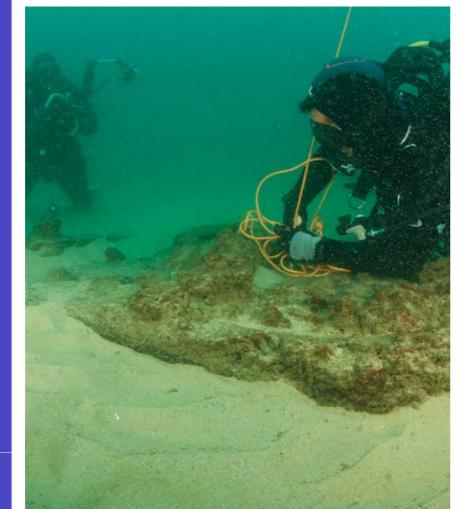
NOVA School of Social Sciences and Humanities Edifício I&D - Gabinete 2.19 Avenida de Berna, 26, 1069-061 Lisboa, Portugal +351 217 908 300

> WEBSITE

www.cham.fcsh.unl.pt







BRIEF DESCRIPTION

CHAM is an inter-university research unit of NOVA School of Social Sciences and Humanities and of the University of the Azores, headquartered in Lisbon. Most of its members are professors, full-time researchers, and students linked to one of the two universities. Funded by the Portuguese Foundation for Science and Technology (FCT, I.P.), it was scored as "Excellent" on the last evaluation process of R&D Units, in 2013-2014. Since then, CHAM has become one of the main centres of humanities research in Portugal, focusing its study on the notion of frontier. In 2018-2022, CHAM will pursue the project "Questioning Frontiers. Historical and Contemporary Perspectives".

History is the foundational discipline of CHAM. However, across the Humanities, the study of the frontier brings the relational dimension of societies, languages, cultures and systems of thought to the forefront. The large heuristic potential of the frontier is thus at the centre of CHAM's project, aiming to study exchange processes and dialogues, selective adoptions and rejections, constructions and erasures.

CHAM conducts groundbreaking research in the field of Humanities, is deeply involved in advanced professional training, and develops a broad range of knowledge transfer activities.

CHAM has a governance model suited to its research agenda, based on a stable and effective structure. CHAM is organised in 9 research groups defined by area of study and 8 thematic lines that function as interdisciplinary meeting zones, all contributing to a multi-perspectival approach to the frontier: African Studies; Asia: Peoples, Polities, Exchanges; Environmental History and the Sea; Europe in the Renaissance – Old and New Worlds; Global Cities; Heritage and Memory; History of Women and Gender; Theory and Methodology.

CHAM benefits from both NOVA FCSH and the University of the Azores facilities and infrastructures. And CHAM's library is a leader in its areas of specialization. The collection currently includes 34 000 items, and it continues to grow through private donations and funding for acquisitions.

RESEARCH HIGHLIGHTS

UNESCO Chair: The Ocean's Cultural Heritage.

H2020-MSCA-RISE-2017 "CONCHA: The construction of early modern global Cities and oceanic networks in the Atlantic: An approach via Ocean's Cultural Heritage".

RIC Portal – Periodical Literature on Ideas and Culture.

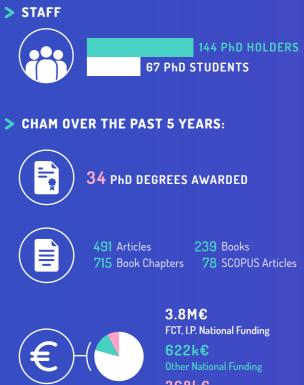
E-Learning MA in The History of the Portuguese Empire.



SCIENTIFIC AREAS

History and archaeology Linguistics and Literature Philosophy, ethics and religion Arts (art history)

FACTS AND FIGURES



368k€ EU Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

A. Cattaneo, Migrations et métamorphoses des formes et des savoirs (Europe-Asie, XIIIe-XVIIe siècle). In J.-M. Besse, G. Tiberghien (dirs.), Opérations Cartographiques. Arles: Actes Sud, 2017, pp. 234-259.

M.R. Monteiro, M. Kong (eds.), M.J.P. Neto (co-ed.). Utopia(s) – worlds and frontiers of the imaginary. London: CRC Press, 2017, 417p.

P. Cardim, Portugal's Elites and Political Status within the Spanish Monarchy. In R. von Friedeburg, J. Morrill (orgs.), Monarchy transformed: princes and their elites in Early Modern Western Europe, Cambridge, Cambridge University Press, 2017, pp. 212–243.

C. Brito, V. Jordão & G. Pierce, Ambergris as an overlooked historical marine resource: its biology and role as a global economic commodity. The Journal of Marine Biological Association of the United Kingdom, v. 96, n. 3 (Jun 2015).

H. Trindade Lopes, The Mediterranean and the Voices transported by time. In S. Goffredo, Z. Dubinsky (eds.), The Mediterranean Sea - Its history and present challenges. Dordrecht: Springer, 2013, pp. 553-557.

NOVA SCHOOL OF SOCIAL SCIENCES AND HUMANITIES CIC.DIGITAL

> NAME

CENTRE FOR RESEARCH IN COMMUNICATION, INFORMATION AND DIGITAL CULTURE

> ACRONYM CIC.DIGITAL

> COORDINATOR Francisco Rui Cádima

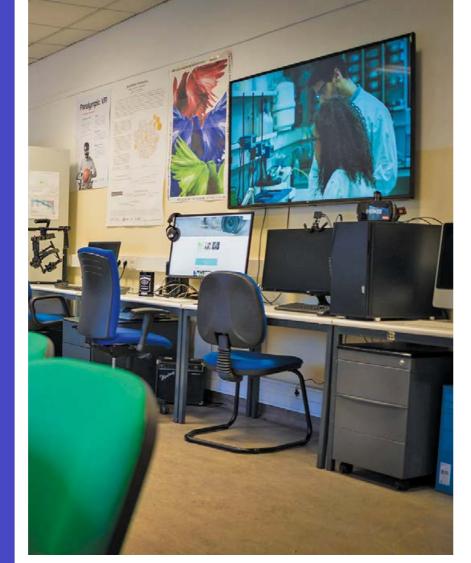
> CONTACTS, LOCATION

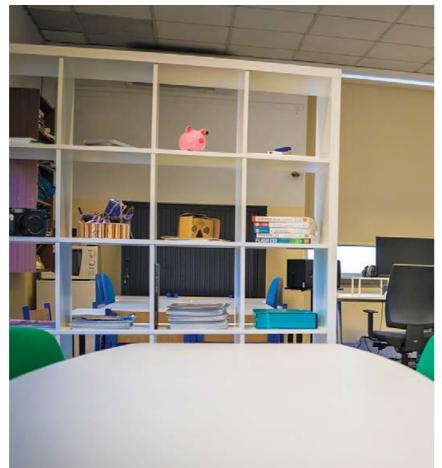
NOVA School of Social Sciences and Humanities Edifício I&D – Sala 3.20 Avenida de Berna, 26, 1069-061 Lisboa, Portugal +351 217 908 300

> WEBSITE

www.icnova.fcsh.unl.pt







BRIEF DESCRIPTION

CIC.Digital FCSH branch is a research unit devoted to research in Media and Communication Sciences. The operational structure comprises three Research Groups and one Laboratory. CIC.Digital corresponds to a specific redesign of communication sciences, requiring the gathering of knowledge and synergies between the communication sciences and the sciences and technologies of information and communication.

The mission of CIC.Digital develops around several research goals:

- > Fundamental and historical scientific research on media issues;
- Applied and experimental scientific research in the area of Communication and Information Sciences, focusing in societal dimensions;
- > Advance training in the area of Communication and Information Sciences.

RESEARCH HIGHLIGHTS

DIVinTV – Public Television and Cultural Diversity in Portugal Coordinator: Francisco Rui Cádima I Funding: FCT (PTDC/IVC-COM/4968/2014);

Media and Pluralism in Portugal http://monitor.cmpf.eui.eu/

MPM – Media Pluralism Monitor – Monitoring Risks for Media Pluralism in EU Member States of CMPF – Centre for Media Pluralism and Media Freedom. European University Institute (Florence).

Coordination of the Portuguese team: Francisco Rui Cádima I Funding: European Commission;

AFRO-EUROPEAN NARRATIVES http://africaneuropeanarratives.fcsh.unl.pt/

Reference: 589356-CITIZ-1-2017-1-PT-CITIZ | Coordinator: Maria Teresa Cruz | Funding: European Commission (EACEA – Education, Culture and Audiovisual Executive Agency).

SCIENTIFIC AREAS

Studies of Media and Journalism Culture, Mediation and Arts Strategic Communication

FACTS AND FIGURES



Cádima, F. R. (2017). Media, diversity and globalisation in the digital age. Janus.Net, 8(2), 88-100.

Cascais, A. F. (2017). Hermaphroditism and intersexuality in Portuguese medical photograph. Comunicação e Sociedade, 32, 81-100.

Silva, M. T. & Santos Silva, D. (2014). [MS1] Trends and transformations within cultural journalism: A case study of newsmagazine Visão. Observatório OBS*, 8(4), 171-185.

Vicente, P. N. (2013). The Nairobi Hub: Emerging patterns of how foreign correspondents frame citizen journalists and social media. Ecquid Novi: African Journalism Studies, 34(1), 36-49.

> NAME INTERDISCIPLINARY CENTRE OF SOCIAL SCIENCES

> ACRONYM CICS.NOVA

> COORDINATOR Luís Vicente Baptista

> CONTACTS, LOCATION

NOVA School of Social Sciences and Humanities Edifício I&D – sala 3.14 Avenida de Berna, 26C, 1069-061 Lisboa, Portugal +351 217 908 300 – Ext. 1218/1488

> WEBSITE

www.cics.nova.fcsh.unl.pt











BRIEF DESCRIPTION

CICS.NOVA's mission is to undertake high quality and innovative interdisciplinary research for critical thinking in social sciences and policy-making. CICS.NOVA values in the same measure fundamental and applied research from an interdisciplinary perspective, taking into account the complexity of territorial systems and human behavior, the particularity of the functioning of institutions and the relationship with the surrounding spatial and social context. The strong interdisciplinary strategy connects and enhances the knowledge in Sociology and Geography, as nuclear areas, and other Social Sciences, but also in Environmental and Natural Sciences, in its fundamental and applied components. CICS.NOVA's research contributes to the building of regional strategies, aiming at the reconfiguration of regional maps through the development of research contracts with regional and local government bodies and civil society institutions.

CICS.NOVA is based at NOVA University Lisbon and has four regional hubs, in the mainland (Braga-University of Minho, Leiria-Polytechnic of Leiria, Évora-University of Évora) and at the islands (Ponta Delgada, Azores-University of the Azores). The Research Groups (RG) and Thematic Lines (TL) were designed with the objective of cross-cutting classical research fields borders, thus enhancing cooperation between researchers and stimulating closer connections with public policies, business firms, other organisations and individual actors.

RESEARCH HIGHLIGHTS

A large number of projects: from 2013 to 2018, CICS.NOVA has hosted and participated in 90 funded projects. Seven of those projects were awarded a funding superior to 200 000, 00€. CICS.NOVA also participates in two CoLAB constituted in 2018:

Value4Health.CoLAB – Portuguese Value-Based Healthcare: proposed by NOVA University Lisbon – CICS.NOVA is the partner research unit from the NOVA School of Social Sciences and Humanities (FCSH);

ProChild CoLAB - Against Child Poverty and Social Exclusion: proposed by University of Minho. NOVA University Lisbon participates in this CoLAB through CICS.NOVA's contribution.

OCEANID | https://jeanmonnetchair.webview.pt/

Chair Jean Monnet OCEANID: Professor Regina Salvador, CICS.NOVA's integrated researcher, is in charge of the Chair granted in 2017 to NOVA University Lisbon. This Chair has the objective of contributing to increase the knowledge concerning the EU Integrated Maritime Policy and Blue Growth.

Advanced Training: CICS.NOVA participates in 11 PhD programmes and 24 Master programmes, held by NOVA University Lisbon as well as by other higher education institutions members of the consortium (University of Minho, University of Évora, University of the Azores and the Polytechnic of Leiria).

Interface with civil society - CICS.NOVA hosts four Observatories and two Laboratories:

ONGV | http://onvg.fcsh.unl.pt

The National Observatory of Violence and Gender

OAT I https://sites.fct.unl.pt/observatorio-avaliacao-tecnologia The Observatory of Technology Assessment

iACT | http://iact.ipleiria.pt/en

The Inclusion and Accessibility in Action Research Observatory **OJA** | http://observatoriodajuventude.azores.gov.pt/index.php

The Azorean Youth Observatory CEESVF | The Vale Formoso's Soil Erosion Experimental Centre

LABID | The Laboratory of Ideas

SCIENTIFIC AREAS

Thematic Lines (TL): TL1 - Human Development and Sustainability TL2 - Innovations and Territorial Competitiveness

Research Groups (RG):

Social Inequalities and Public Action Citizenship, Work and Technology Cities, Environment and Regional Development Modelling and Planning Systems Health, Population and Well-being Education, Knowledge and Culture

FACTS AND FIGURES



138 PhD HOLDERS 121 PhD STUDENTS

> CICS.NOVA OVER THE PAST 5 YEARS:

- 439 Articles
 175 Scopus articles
 587 Book chapters
 90 Books (authorship)
- **643** Chapters in conference proceedings



1.7M€ FCT, I.P. National Funding 2.8M€ Other National Funding 798K€

International Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Fernandes, A., Sousa, J. F., Salvador, R. (2017). "The Cultural Heritage in the Post-Industrial Waterfront: A Case Study of the South Bank of the Tagus Estuary, Portugal". *Space and Culture*, 21(2), 170–191;

Teixeira, A. L., & Lisboa, M. (2016). "Estimating the prevalence of female genital mutilation in Portugal". *Public Health*, 139, 53-60;

Serra, H. (2016). "Gamble on the Uncertain". Negotiating Medical Decision-Making. *Qualitative Sociology Review*, 12(4), 44-59;

Batista, S. (2014). "The redistribution of responsibilities in Five European Educational Systems: from global trends to national arrangements". *European Research Journal*, 13(2), 181-199.

Santos, T., Gomes, N., Freire, S., Brito, M.C., Santos, L., & Tenedório, J.A. (2014). "Applications of solar mapping in the urban environment". *Applied Geography*, 51, 48–57.

CITI

- > NAME INTERACTIVE TECHNOLOGIES RESEARCH CENTRE
- > ACRONYM CITI

> COORDINATOR Irene Tomé

> CONTACTS, LOCATION

NOVA School of Social Sciences and Humanities Torre B – Piso 8 Avenida de Berna, 26C, 1069-061 Lisboa, Portugal +351 217 991 444

> WEBSITE

citi.pt





DIÁRIO DA MINHA SAÚDE



BRIEF DESCRIPTION

CITI is a Research and Development Unit at NOVA University Lisbon, mainly focused in the development of applied research as well as providing training courses in its areas of expertise, combining activities that render services to the community.

With the achievement of around 220 multimedia applications developed between 1993 and 2018 CITI was placed as one of the research units with best results in its field of research, obtaining several international and national awards and also participating in several European projects.

This research unit also provides internships for university students from several university degrees enabling specialization courses leading to the attainment of master degrees and also PhD's, when the students are enrolled in curricular units at NOVA University Lisbon.

RESEARCH HIGHLIGHTS

Literacia em saúde, 2016-2018

Plataforma digital dos concelhos de Portugal www.pdcp.pt | 2017

Alimentação saudável, segura, sustentável

www.planonacionaldeleitura.gov.pt/alimentacao I 2017 An initiative of Zero Desperdicio and DariAcordar together with the Calouste Gulbenkian Foundation and the New University of Lisbon. The goal is to inform the younger population about healthy, safe and sustainable food.

Biblioteca Digital do Plano Nacional de Leitura | 2016

Integrated in the multiple actions of the National Reading Plan, the Digital Book Library is a space that revitalizes initiatives related to reading and writing, which assumes itself as an aggregate of books by authors who have been consecrated and approved by the National Reading Plan

CITI

SCIENTIFIC AREAS

Digital systems for teaching and communication Development of multimedia projects

FACTS AND FIGURES



SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Actas da X Conferência Internacional EUTIC 2014. *O Papel das TIC no Design de Processos Informacionais e Cognitivos*, Tomé, I. 2016 CITI/FCSH. 890 p.

Aprender com tecnologias digitais no ensino Superior – *Um modelo de e-learning em contexto de sala de aula*, Tomé, I., Salvado, M. & Lagarto, J. R. 2015. Actas da Conferência "Challenges 2015: Meio Século de TIC na Educação". p. 1226 – 1242.

História de um homem invulgar e da sua fabulosa coleção. Vilar, l. 2015 1 ed. Fundação Gulbenkian.

Olhar Misterioso de Helena Fourment. Vilar, I. 2015 1 ed. Fundação Gulbenkian. 59 p.

O movimento MOOC. Desestruturação ou reestruturação do sistema de ensino-aprendizagem vigente. Tomé, I.,1 Jan 2013.

> NAME

LINGUISTICS RESEARCH CENTRE OF NOVA UNIVERSITY LISBON

> ACRONYM CLUNL

> COORDINATOR Rute Costa

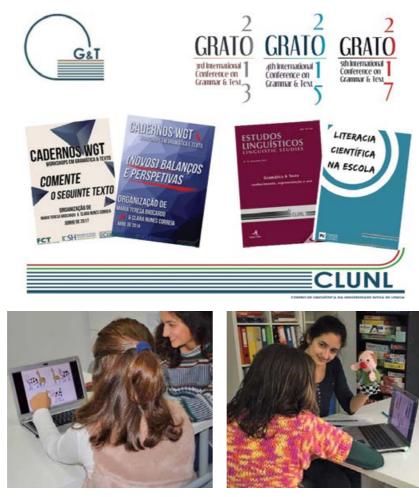
> CONTACTS, LOCATION

NOVA School of Social Sciences and Humanities Torre B – Sala T3 Avenida de Berna, 26C, 1069-061 Lisboa, Portugal +351 217 908 300 – Ext. 1337

> WEBSITE

clunl.fcsh.unl.pt









EndoTerm: a double-dimensional approach to terminology work within the biomedical field

Carvatho, Sara / Conz, Roze / Rocke, Claristrophe (2015) "The Role of Conceptual Relations in the Deutling of Natural Language Definitions: an Example from the Biomedical Domain". Globules. 2018: Japan, pp. 10-16



BRIEF DESCRIPTION

The Linguistic Research Center of the NOVA University Lisbon (CLUNL) is a Research Unit that has as its main objectives the advancement of research in Theoretical and Applied Linguistics, the advanced training of researchers and the dissemination of scientific data on those domains concerned with the nature and structure of languages and texts. This Unit is funded by the Portuguese Foundation for Science and Technology (FCT, I.P.), and has obtained the qualification of "Very Good" in the latest evaluation exercise carried out by this governmental institution.

CLUNL's researchers are organized in four research groups: LiFE – Formal and Experimental Linguistics; LLT – Lexicology, Lexicography and Terminology; G&T – Grammar and Text; CLCM – Cognition, Language and Multimodal Communication. These groups conduct research on language acquisition, comparative syntax, forms and constructions in Portuguese, lexicography and lexicology, multimodality, multilingualism, approaches to language teaching, natural language processing, theories of text and discourses, terminologies and ontologies, among others.

CLUNL's facilities include fully equipped training and conference rooms with projectors and Wi-Fi, a research room, an office for 20 people, and a meeting room prepared to accommodate PhD and post-doc fellows, and people with scientific employment contracts.

RESEARCH HIGHLIGHTS

European Portuguese-Standard Arab Dictionary

Portuguese Coordinator: Teresa Lino I Funded by Rabat Mohamed V University and Calouste Gulbenkian Foundation

Promotion of scientific literacy

Coordinator: Matilde Gonçalves I Funded by Calouste Gulbenkian Foundation

Development of syntactic structures in Portuguese and French monolingual and bilingual acquisition

Portuguese Coordinator: Maria Lobo | Portuguese Foundation of Science and Technology (FCT.IP), - PHC Pessoa 2017 Proc° 441.00

Blackboxl blackbox.fcsh.unl.pt

A Collaborative Platform to Document Performance Composition: from conceptual structures in the backstage to customizable visualizations in the front-end.

Coordinator: Carla Fernandes | ERC Starting Grant 2013 | Reference 336200

SCIENTIFIC AREAS

Formal and Experimental Linguistics Lexicology, Lexicography and Terminology Grammar & Text Cognition, Language and Multimodal Communication

FACTS AND FIGURES



35 PhD HOLDERS 27 PhD STUDENTS 43 COLLABORATORS

> CLUNL OVER THE PAST 5 YEARS:



167 Articles

140 Book Chapters

19 Books

62 SCOPUS Articles



2.0 M€ FCT, I.P. National Funding 64k€ Other National Funding

871K€ International Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Amaro, R.; Mendes, S. (2016). Lexicologia e Linguística Computacional. In Martins, A. M.; Carrilho, E. (eds). Manual de Linguística Portuguesa. Manuals of Romance Linguistics, M. de Gruyter.

Brocardo, M. T.; Lopes, C. (2016). History and Current Setting. In Wetzels, et al. (eds.). The Handbook of Portuguese Linguistics. Maldon/Oxford: Wiley-Blackwell.

Carvalho, S.; Costa, R; Roche, C. (2016). Ontoterminology meets Lexicography: the Multimodal Online Dictionary od Endometriosis (MODE). In. Proc. Of GLOBALEX 2016: Lexicographic Resources for Human Language Technology. LREC 2016.

Coutinho, M. A. (2014). Language in Action: Epistemological and Methodological Issues: In Correia, C. N. et al (eds). From Language to Discourse. Cambridge Scholars Publishing.

Lobo, Maria; Santos, Ana Lúcia; Soares-Jesel, Carla (2016) Syntactic structure and information structure: the acquisition of Portuguese clefts and be-fragments. *Language Acquisition* 23.2; 142-174.

CRIA

> NAME

CENTRE FOR RESEARCH IN ANTHROPOLOGY

> ACRONYM CRIA

> COORDINATOR José Mapril

> CONTACTS, LOCATION

Headquarters Edifício ISCTE-IUL, Sala 2W2 Av. Forças Armadas, 1649-026 Lisboa, Portugal

NOVA FCSH Division NOVA School of Social Sciences and Humanities Edifício I&D – Sala 3.09 Avenida de Berna, 26, 1069–061 Lisboa, Portugal +351 213 642 013

> WEBSITE

cria.org.pt



BRIEF DESCRIPTION

CRIA is an interuniversity R&D unit – ISCTE-IUL, NOVA FCSH, University of Coimbra and University of Minho. The 4 institutional subunits share management, fundraising, research dissemination, teaching and knowledge transfer capabilities.

CRIA is the main Portuguese research centre in Anthropology. It is the leading R&D unit associated to NOVA FCSH and ISCTE-IUL PhD program in Anthropology: Politics and Displays of Culture and Museology. Its VALUE lies in its independent approach towards knowledge production, unconstrained by perspectives and rhythms imposed by political urgency; committed to deep, prolonged qualitative enquiry as the basis for theoretical innovation, thus guaranteeing originality in its empirical and theoretical contributions to knowledge production and application.

CRIA makes a solid contribution to the knowledge of social dynamics. Research in different geographical contexts is also significant (Portuguese-speaking countries: Brazil, Angola, Cape Verde, Mozambique; South Asia: India, Malacca, Bangladesh; Morocco, Mauritania). Encouraging INTERDISCIPLINARITY and the coordination of sub-disciplinary fields CRIA promotes comparative and transversal analyses at different spatial and historical scales.





Research is structured in 4 RESEARCH GROUPS (RG) defined according to specific areas of expertise: 1) Circulation and Place-Making; 2) Environment, Sustainability and Ethnography; 3) Governance, Policies and Livelihoods; 4) Practices and Politics of Culture. More informally, bottom-up Thematic Lines (TL) build upon particular topics: a) Health; b) Visual Anthropology and Arts; c) AZIMUT. Studies in Arab and Islamic Contexts; d) Religion; e) Informal Resources and Social Capital. Each researcher is engaged in an RG while cooperating with TL's activities, or partaking in labscale work. This enables them to stretch boundaries, challenge traditional ways of thinking and find new approaches.

The 4 LABORATORIES (Audiovisual; Environmental Anthropology and Behavioral Ecology; Biological Anthropology and Osteological Human Remains; Ethnographic Archives) are central infrastructures for research, storage and data processing, training and dissemination activities. The laboratorial dimension contributes to the development of new areas of research, attracting students and others, and stimulating engagement with public institutions that increasingly rely on CRIA as an external consultant.

CRIA strongly advocates the relevance of anthropology's fundamental research towards a differentiated understanding of the social and cultural worlds. While asserting this as crucial, CRIA's ENGAGEMENT in public domains contributes to knowledge-based decision-making. Social, cultural and natural risks, as well as the demand for fair and creative policies for more inclusive and sustainable societies, are the main focus of this commitment. CRIA acknowledges culture's empowerment potential, therefore collaborating with those willing to promote it in innovative ways, as a means to favor better conditions for communities.

RESEARCH HIGHLIGHTS

CAPSAHARA

http://capsahara-cria.org

GROUND-BREAKING RESEARCH ON POLITICS, SOCIAL ACTIVISM AND ISLAMIC MILITANCY IN THE WESTERN SAHARAN REGION. In 2016, Francisco Freire won an ERC Starting Grant (€ 1,192,144) with CRIA as Host Institution.

CONTRIBUTING TO INNOVATIVE POLICIES ON INTANGIBLE CULTURAL HERITAGE (ICH).

In 2012 CRIA was endorsed as a consultant NGO for the UNESCO Convention for the Safeguarding of ICH. Since 2014, CRIA integrates the WG for the ICH of the National Commission for UNESCO. CRIA strongly invests in research and academic training in this area. It is the leading I&D unit associated to NOVA FCSH and ISCTE-IUL PhD program in *Anthropology: Politics and Displays of Culture and Museology.*

ADDRESSING BIODIVERSITY LOSS, ANTHROPOLOGY AT THE LAB SCALE.

Projects led by CRIA's researchers have provided important data for a holistic framing of conservation policies in Guinea Bissau. The outputs were shared with local people, GOs and NGOs, in partnership with Arcus Foundation and Guinea Bissau's Institute for Biodiversity and Protected Areas, in order to inform conservation policies. The collected data – plant and seed specimens and camera traps' videos/pictures and maps – have become referential collections available for future research and lab-scale work.

ACADEMIC AND PUBLIC ENGAGEMENT ON MEDITERRANEAN CRISIS.

CRIA's capacity to mobilize different of its skills in a concerted way was especially triggered by the Mediterranean crisis: social impacts of the economic crisis; the aftermath of the Arab Spring and the conflicts in the MENA region; the situation of the refugees, and the growth of Islamophobia.

SCIENTIFIC AREAS

Circulation and Place-Making Environment, Sustainability and Ethnography Governance, Policies and Livelihoods Practices and Politics of Culture



> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

ALVES-CARDOSO, F.; LIRA, V., 2016, "Remains of the dead: exploring a human anatomical collection from Brazilian Amazon", International Journal of Osteoarchaeology, 26 (5): 787-798.

CARDEIRA DA SILVA, Maria, 2017. "Moroccan Jewish first-places: contraction, fabrication, dissipation", International Journal of Heritage Studies, 1-14.

LEAL, João, 2016, "Festivals, group making, remaking and unmaking", Ethnos, 81 (4): 584-599.

FRAZÃO-MOREIRA, Amélia, 2016, "The symbolic efficacy of medicinal plants: practices, knowledge, and religious beliefs amongst the Nalu healers of Guinea-Bissau", Journal of Ethnobiology and Ethnomedicine, 12: 24.

SILVA, Luís: PRISTA, Marta, 2016, "Social differentiation in the consumption of a pastoral idyll through tourist accommodation: two Portuguese cases", Journal of Rural Studies, 43: 183-192.

IAP

- > NAME INSTITUTE FOR ARCHAEOLOGY AND PALAEOSCIENCES OF NOVA UNIVERSITY LISBON
- > ACRONYM IAP
- > COORDINATOR Rosa Varela Gomes
- CONTACTS, LOCATION
 NOVA School of Social Sciences and Humanities
 Avenida de Berna, 26C,
 1069-061 Lisboa, Portugal
 +351 217 908 300 Ext.1309
 iap@fcsh.unl.pt





















BRIEF DESCRIPTION

IAP aims to promote scientific research in the field of Archaeology and associated sciences, both in Portugal as abroad, namely in territories where the Portuguese presence had been, directly or indirectly, felt.

The study of past societies and the dissemination of the achieved knowledge, through theoretical constructions and empirical information (archaeological testimonies, in land, maritime and underwater environments, and literary information), in a holistic and transversal way, resulting in the identification of human behaviours, in its economic, social, technological and, mainly, ideological features, as well as its patrimonial and identity importance.

At NOVA FCSH, in the Archaeology Laboratory, the IAP researchers develop their projects and attend students who conduct treatment and study of archaeological materials as well as academic works.

RESEARCH HIGHLIGHTS

Portuguese archaeological mission at Kalba (Sharjah, U.A.E.) (2017-2021).

iMARE Culture – EUROPEAN Union's Horizon 2020 research and innovation programme (Grant Agreement No 727153) (2017–2019).

ForSEAdiscovery - Forest resources for Iberian Empires: Ecology and Globalization in the Age of Discovery (PITN-GA-2013-607545), Marie Skłodowska-Curie Actions - Research Fellowship Programme (2014-2018).

A Faiança Portuguesa no Mundo (séculos XVI-XVIII), F.C.T. (PTDC/HIS-ARQ/111740/2009) (2011-2014).

SCIENTIFIC AREAS

Societies Symbols Material Culture

FACTS AND FIGURES





67 Peer review Publications75 Book chapters

- 9 Books
- 100 Other publications
- **26** Papers WoS / SCOPUS

> FUNDING



34K€ FCT, I.P. National Funding 17K€

Other National Funding

439K€ International Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Ferrreira, L.F.V.; Gomes, R.V.; Pereira, M.; Santos, L.; Machado, I.F. (2016). Islamic ceramics in Portugal found at Silves Castle (8th to 13th c.): An archaeometric characterization. Journal of Post-Medieval Archaeology 1, 47: 17–34.

Gomes, M.V. Gomes, R.V.; Casimiro, T.M. (2015). Convents, monasteries and porcelain: a case study of Santana Convent, Lisbon, Global Pottery 1. Historical Archaeology and Archaeometry for Societies in Contact: 93-101. British Archaeolovical Reports, I.S. 2761. Oxford: Archeopress.

Gomes, M.V.; Casimiro, T.M.; Gonçalves, J. (2015). A Late 17thcentury trade cargo from Ponta do Leme Velho, Sal Island, Cape Verde, The International Journal of Nautical Archaeology, vol. 44(1), pp. 160-172.

Gomes, R.V.; Gomes, M.V. (2015). The Arrifana Ribat (Algarve). Sacred space and ideological context (12th century), Arqueologia Medieval, Els Espais Sagrats, VII: 151-176.

Gomes, R.V; Casimiro, T.M. (2013). Post-Medieval Archaeology in Portugal, Journal of Post-Medieval Archaeology 1, 47: 17-34.

IELT

> NAME

INSTITUTE FOR THE STUDY OF LITERATURE AND TRADITION -HERITAGE, ARTS AND CULTURES'S

> ACRONYM IELT

> COORDINATOR Ana Paiva Morais

>

>

CONTACTS, LOCATION

NOVA School of Social Sciences and Humanities Avenida de Berna, 26C, 1069-061 Lisboa, Portugal +351 217 908 300

>

WEBSITE ielt.fcsh.unl.pt











BRIEF DESCRIPTION

IELT - Institute for the Study of Literature and Tradition - Heritage, Arts and Cultures's mission focuses on the study of literature in its complex, multi-faceted and multidirectional relationship with tradition, considered as a vast reservoir of forms, images, figures, structures, senses and experiences that participate in the construction and in the repeated transformation of cultural, poetic and artistic identities.

In this perspective, IELT claims the decisive importance of the literary phenomenon (irrespective of its form, register, mode of transmission and reception) within a broad and interdisciplinary reflection on tradition and cultural identities IELT favours: the study of literature with memorial record and oral transmission (dynamics, contexts and specificities of production, fixation, reception and textual reproduction) and its persistence in the formation, consolidation and dissemination of identity, cultural and literary matrices; the importance of symbolic processes in the formation of cultural, literary and artistic imaginaries; the study of the relationships between literary and artistic modernity, memory and tradition, as well as the status of literary modernity as the creative epicentre of literary traditions; the study of literature as an unfolding and expansive space through its intersemiotic (relation of its dialogue with other arts and discursive modalities) and dialogic dimensions; the archive as a space of confluence between memory, tradition and reinvention and, in this sense, as a privileged space of thought for the articulation between literature and tradition.

IELT's facilities include two rooms equipped with working tables, computers, printers, scanners, personal work areas; central library of the research building (ID); meeting room; full time science management team.)

RESEARCH HIGHLIGHTS

Participation in International Networks

BRASPOR; CORPUS; CRII2; FABULA NUMERICA, Red de Universidades Lectoras.

MEMORIAMEDIA

www.memoriamedia.net

Project dedicated to collecting, organizing and inventory of Portuguese Intangible Cultural Heritage.

Principal Projects

"The Fable in Portuguese Literature: A Catalogue and Critical History" (FCT, I.P.) I "Online Modernism - Virtual Archive of Orpheu Generation" (FCT, I.P.) I "Criticism. Poetry and Contemporary in Brazil and Portugal: trends and issues" (FCT, I.P./CAPES) I "Seeing stories. Recovering Landscape Narrative in Urban and Rural Europe RELANUR" I "Recovering Dialogue (critical edition and study)" (Gulbenkian) I "RELIT-Rom - Revisões literárias: a aplicação criativa de romances (séculos XV-XVII)" (Gulbenkian) I "Atlas das Paisagens Literárias de Portugal Continental".

IELT is Chair Infante Dom Henrique for Atlantic Studies and Globalization (UAb) and Partner Research Unit - UNESCO Chair "The Ocean's Cultural Heritage" (IELT, CHAM, IEM and IHC).

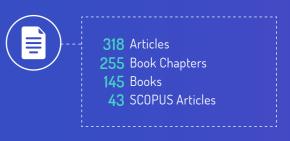
SCIENTIFIC AREAS

Intangible heritage and symbolic imaginary; Literary tradition, texts, arts, theories; Spacialities of literature, arts and culture.

FACTS AND FIGURES IELT OVER THE PAST 5 YEARS:



> PUBLICATIONS







464K€ FCT, I.P. National Funding 21K€ Other National Funding

> SCIENTIFIC OUTPUT

5 MAIN PUBLICATIONS

Araújo, Teresa, "Alusão a romances nas letras portuguesa dos séculos XV a XVII", Arbor, ciência, pensamento e cultura CXC, 766 (2014): 1-11.

Freitas, Joana Gaspar, "Landscapes of Fear: The Portuguese Coast", Nautilus VII (2016): 27-59

Neves, Márcia, "(Re)designing the Human-Animal Cartography: Towards an Ecophilosophy of Reciprocity", In Who's talking now? Multispecies relations from humans and animals' point of view, Oxford: Interdisciplinary Press (2015): 259-268.

Rubim, Gustavo "A Promessa da Europa", "José de Almada Negreiros: uma maneira de ser moderno", Lisboa: Fundação Calouste Gulbenkian, 2017.

Silva, Sara Graça da, Tehrani, Jamshid J., "Comparative phylogenetic analyses uncover the ancient roots of Indo-Europeanfolktales", Royal Society Open Science 3 (2016): 150645.

IEM

> NAME INSTITUTE OF MEDIEVAL STUDIES

> ACRONYM IEM

> COORDINATOR Maria João Branco

> CONTACTS, LOCATION

NOVA School of Social Sciences and Humanities Edifício I&D – sala 221 Avenida de Berna, 26C, 1069-061 Lisboa, Portugal +351 217 908 300 – Ext. 1321

> WEBSITE iem.fcsh.unl.pt







BRIEF DESCRIPTION

The Institute for Medieval Studies (IEM) is a Research Centre of the NOVA School of Social Sciences and Humanities at NOVA University Lisbon, sponsored by the Portuguese Foundation for Science and Technology (FCT, I.P.). Founded in 2002 by Luis Krus and José Mattoso, IEM is the only research unit exclusively devoted to Medieval Studies. It was granted the classification of "Very Good" in the Research Assessments of 2007 and 2014. We aim to promote high quality research in the medieval field by networking with other researchers, both in Portugal and elsewhere so as to foster international collaboration that will contribute to new, multidisciplinary and comparative approaches to the Middle Ages. We are a body of 172 researchers, experts in the fields of Archaeology, Art History, History, Literature and Musicology, jointly working on two main transversal research axes, People and Knowledge in Motion: Portugal in Trans-European Medieval Networks & Medieval Heritage and Material Culture, and integrated in two Research Groups (RG):

1. Images, Texts and Representations

This RG is subdivided into four research areas:" Images and Texts: Meanings and Uses"; "Texts in Context"; "Sociocultural Representations and Constructions" and "Family Archives".

2. Territories and Powers: a <Glocal> Perspective

This RG is subdivided into the following research areas:" Mapping the political and Ideological Structures of the Kingdom", "Landscapes for the Exercise of the Power Strategies"; "Large Cities and Small Towns"; "Medieval Rural Communities and Landscapes" and "Circulation of Elites, Models and Processes".

The IEM is installed with two rooms and it is equipped with work places for 2 Science and Technology Management Scholarships (BGCT), and also several work places for researchers. The IEM also holds a specialised library on Medieval Studies, which is located at the Documentation Centre (R&D building of NOVA FCSH, 1st floor).

RESEARCH HIGHLIGHTS

Innovation & Interdisciplinarity by combining very diverse scientific areas to advance Knowledge in Medieval Europe: a cross-fertilisation of Art History and Chemistry for the molecular study of illuminated manuscripts; Interdisciplinary projects for the study of Early-Medieval rural communities and Late-Roman bringing together very disparate scientific disciplines (Chemistry, Geology, Bioanthropology, Anthracology, Carpology and Geography); Interdisciplinary combining Literature and Music Studies applied to medieval Galego-Portuguese cantigas.

Open Access: Commitment to EU Open Science policies (open research data and databases, e-books and e-journals, deposit of all production in national and international repositories and infrastructures). In 2005 the IEM launched Medievalista Online, the first journal of Medieval Studies online.

Partnerships: with municipalities, archives and businesses (e.g. 25 municipalities are today linked to IEM).

Research & Teaching: The IEM provides training in methodologies and specific skills fundamental to those engaged in Medieval Studies as well as courses in both undergraduate and graduate level programmes. The teaching staff of the IEM and some of its post-graduate researchers constitute the bulk of teachers in the only PhD Programme in Medieval Studies in Portugal, an e-learning programme offered in a joint venture with Universidade Aberta.

SCIENTIFIC AREAS

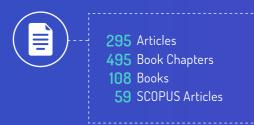
Archaeology Art History History Literature and Musicology

FACTS AND FIGURES



55 PhD HOLDERS 25 PhD STUDENTS

> IEM OVER THE PAST 5 YEARS:





1.9M€ FCT, I.P. National Funding 237k€ Other National Funding

163K€ International Funding

> SCIENTIFIC OUTPUT

5 MAIN PUBLICATIONS

MIGUÉLEZ CAVERO, Alicia (ed.) - Journal of Medieval Iberian Studies. Special Issue: Looking ahead: Interdisciplinary Approaches to Medieval Iberian Heritage. Routledge, 8/2 (Sept. 2016), pp. 131-343.

BROOKES, Stuart; TENTE, Catarina; PRATA, Sara "Interpreting Rock-Cut Grave Cemeteries: the early medieval necropolis and enclosure of São Gens". Medieval Archaeology, 61/2 (2017) Routledge, pp. 215-238.

ROSA, Maria de Lurdes; RANDOLPH, C. Head (ed.) Rethinking the Archive in Pre-Modern Europe: Family Archives and Their Inventories from the 15th to the 19th century. Lisboa: IEM, Coleção Estudos, n° 13, 2015, 175 pp.

ANDRADE, Amélia Aguiar: COSTA, Adelaide Millán da (ed.) - La ville médiévale en débat. Lisboa: IEM, Coleção Estudos, n° 8, 2013, 206 pp.

LOPES, Graça Videira (ed.) - Cantigas medievais galegoportuguesas. Corpus integral profano. Lisboa: BNP, IEM, CESEM, 2016, 2 vols.

IFILNOVA

> NAME NOVA INSTITUTE OF PHILOSOPHY

> ACRONYM IFILNOVA

> COORDINATOR António Marques

> CONTACTS, LOCATION

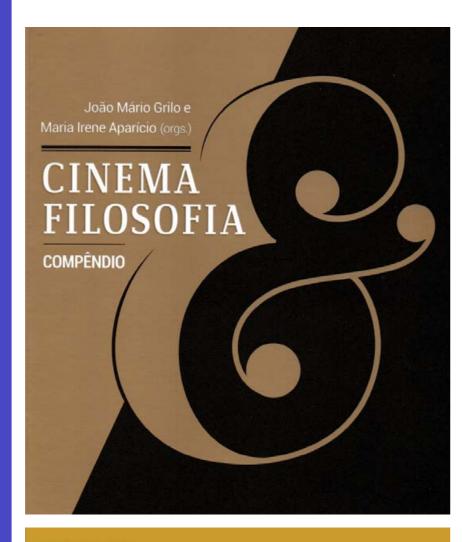
N0VA School of Social Sciences and Humanities Edifício I&D – sala 4.01–4.02 Avenida de Berna, 26C, 1069–061 Lisboa, Portugal +351 217 908 300 – Ext. 1527

> WEBSITE ifilnova.pt



BRIEF DESCRIPTION

IFILNOVA's main purpose is to develop research programs focused on the philosophical investigation of Value(s), particularly by investigating the nature of value, the role of values in human action, as well as their normativity as constituted through public argumentation and reasoning in the ethical, political and aesthetic fields. The programs aim also to apply philosophical theories to social practices and problems. Within such a framework, IFILNOVA has achieved international recognition in argumentation theory,



DE GRUYTER

João Constâncio, Maria João Mayer Branco, Bartholomew Ryan (Eds.)

NIETZSCHE AND THE PROBLEM OF SUBJECTIVITY

pragmatics, history of philosophy, and philosophy of education. The application of groundbreaking theoretical insights to social practices led IFILNOVA to being awarded funding from Horizon 2020. At a national level, the institute has always been rated as Excellent by the Portuguese Foundation for Science and Technology (FCT, I.P.).

The goal of the institute is pursued at different levels (theory, application, outreach) through four distinct strategies:

- 1. Fundamental research on philosophical problems.
- 2. Development of classic theories.
- Development and application of new theories to empirical fields.
 Direct intervention into social practices.

These goals are pursued by four Laboratories and a Dissemination interface with distinct methods and perspectives.

ArgLab considers the problem of Value from a formal perspective: it investigates the conditions of possibility for value construction and normativity via the structures of reasons and arguments; CultureLab considers the problem of Value from a material and historical perspective; EPLab inquiries into the role that values play in a variety of contemporary individual and collective experiences, by developing ideas from the history of philosophy with an analytical perspective; CineLab is dedicated to the philosophical thinking through of the moving image, and it develops part of its research in an actual, societal involvement with film.

The Dissemination Interface (DI) aims to create value in and for society through the links with social stakeholders (public entities). This goal is pursued through activities and programs designed for improving or intervening in social practices, more specifically in the areas of education, medical communication, political deliberation, and cultural communication (cinema and philosophy). The DI is an organizational structure that plans, manages, and coordinates dissemination and outreach projects from the 4 laboratories, directing their research orientations and indicating possible developments. For this reason, it is a coordinating laboratory.

RESEARCH HIGHLIGHTS

Values in argumentative discourse

The project addresses a discrepancy between two popular, yet seemingly incompatible views concerning the way we argue about values. PI: Erich H. Rast I PTDC/MHC-FIL/0521/2014

EcoReason I Ecological reasoning and decision making in innovation

 $\ensuremath{\mathsf{Oriented}}$ industry sectors at the periphery of Europe: Reconciling divergent values and interests.

PI: João Sáàgua I TUBITAK/0010/2014

DIALLS I Dialogue and Argumentation for cultural Literacy Learning in Schools

DIALLS answers the Horizon 2020 call 'Understanding Europe – promoting the European Public and Cultural Space' under the topic of Cultural Literacy of Young Generations in Europe (specifically promoting cultural literacy through formal education).

Portuguese Coordinator: Fabrizio Macagno I H2020 DS6: CULT-COOP-03-2017

European network for argumentation and public policy analysis. PI: Marcin Lewinski | Funding Entity: COST ACTION 2017

SCIENTIFIC AREAS

Reasoning and Argumentation Cinema & Philosophy Culture & Value Ethics and Political Philosophy

FACTS AND FIGURES



> IFILNOVA OVER THE PAST 5 YEARS:



286 Articles180 Book Chapters38 Books145 SCOPUS Articles



8.6M€
FCT, I.P. National Funding
48k€
Other National Funding

2K€ International Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

The cognitive ecology of the internet. Smart, Paul; Heersmink, Richard; Clowes, Robert W. Cognition beyond the Brain: Computation, Interactivity and Human Artifice, Second Edition. 2017. p. 251-282.

The Dialogical Force of Implicit Premises: Presumptions in Enthymemes. / Macagno, Fabrizio; Damele, Giovanni. Vol. 33, No. 3, 12.09.2013, p. 365-393

Aquinas's lex iniusta non est lex: A Test of Legal Validity. / Campos, Andre Santos. Vol. 100, No. 3, 01.07.2014, p. 366-378.

Political legitimacy and the European crisis: analysis of a faltering project. / Angelis, Gabriele de. 03.07.2017, p. 1-10.

Rapanta, Chrysi, and Fabrizio Macagno (2016). Argumentation Methods in Educational Contexts: Introduction to the Special Issue. International Journal of Educational Research 79:142-49.

NOVA SCHOOL OF SOCIAL SCIENCES AND HUMANITIES

IHA

> NAME ART HISTORY INSTITUTE

> ACRONYM IHA

> COORDINATOR Joana Cunha Leal

> CONTACTS, LOCATION

NOVA School of Social Sciences and Humanities Avenida de Berna, 26C, 1069-061 Lisboa, Portugal +351 217 908 300 – Ext. 1540

> WEBSITE

institutodehistoriadaarte.wordpress.com



BRIEF DESCRIPTION

IHA is hosted by FCSH NOVA and a full member of the international RIHA network. It is the sole Art History funded Unit in Portugal. IHA's was scored "Very Good" in 2007 and 2013 evaluations processes. IHA has a flexible and democratic structure enhanced by its management framework and by the diverse backgrounds and affiliations of its research. It has grown into a cohesive community of researchers committed to the excellence of individual and group research, and knowledge transfer within a motivating scientific and educational environment.

IHA's democratic footprint is boosted by the autonomy of its five research groups. All groups approach art history in its broadest sense, considering visual and material culture, museum, heritage, urban studies and art theory. Two Thematic Lines intersect and connect groups' activities: "The Exhibition: theory and practices" and "Cultural transfers in a global perspective". Multidisciplinary perspectives and encounters are encouraged in IHA's overall activities, especially via Clusters' activities (platforms to foster external collaborations).



IHA's work is committed to Portuguese art history, but is by no means confined to it: not only interrogations prompted by Portuguese art history entwine with general art historical questions, but also Portuguese historical relations with other geographies is conspicuous.

IHA is a Unit of high-level education and peer dialogue, that promotes the integration of its members in international networks. It is also project-oriented. Groups trigger and run research projects. IHA's Board and Core Scientific Committee discuss these projects and their articulations with IHA's Strategic Programme and Thematic Lines.

R&D projects articulate basic and applied research (European Union (EU) and Portuguese Foundation for Science and Technology (FCT, I.P.) projects, and seed projects funded by the Unit). Their development involves close cooperation with the academia—IHA actively participates in 3 FCSH NOVA PhD programmes (Art History, Urban studies, Artistic Studies), while also collaborating in CORES programme from FCT-NOVA—, as well as international and national networking: partnerships with museums, foundations, city councils, heritage sites, urban regenerating agents, private institutions. These partnerships are designed to involve PhD, MA and/or BA students through internships and scholarships.

IHA's networking is an essential aspect of its internationalization, grounding the mobility of its members and the growing dissemination of their research. IHA's open-access and peer review editorial policy is also key in this process. IHA assures positions within the RIHA Journal board of editors, and publishes 2 peer-reviewed journals: Revista de História da Arte, and Revista de História da Arte – W series, devoted to the online edition of conference proceedings.

RESEARCH HIGHLIGHTS

IHA has successfully opened new areas of inquiry within its structure by expanding groups' strategic programmes that strengthen NOVA's undergraduate and graduate studies associated to art history, including 4 PhD programmes and 2 successful post-graduate courses run by IHA: Curatorial Studies and Art Markets and Collecting.

IHA's researchers have been building solid international relationships through various networking contexts. These include a) participation in representative/ funded networks, b) R&D projects' international partnerships, c) postdoc projects and co-supervised PhDs, d) co-organization of congresses with international partners, and also e) peer-reviews, editorial and scientific boards of international publications (such as RIHA Journal), and edition of books with extensive international participation and circulation.

Research funding has been a priority for IHA's researchers. Over the last few years, the above mentioned R&D projects were able to raise just over a € 1.000.000 in highly competitive calls promoted by both public and private institutions (e.g. the EU, FCT, Gulbenkian Foundation, etc).

Art historical knowledge transfer has been propelled by groups' and clusters' strategic plans, as well as the investigation sprouting from R&D projects. It has been channeled by: a) peer-reviewed publications authored by IHA's researchers; b) curatorial projects held in prestigious institutions; c) IHA's publication platforms; and d) Digital resources that resulted from the multidisciplinary work environment of R&D projects based on data-intensive research.

SCIENTIFIC AREAS

Art History Visual and Material Culture Lisbon Studies Museums, Exhibitions, Curatorship and Art Markets Heritage, Memory and Citizenship

FACTS AND FIGURES

> STAFF

58 PhD HOLDERS 27 PhD STUDENTS

> IHA OVER THE PAST 5 YEARS:



144 Articles224 Book Chapters61 Books33 SCOPUS Articles



910k€

FCT, I.P. National Funding **344k€** Other National Funding **7K€** International Funding

> SCIENTIFIC OUTPUT

5 MAIN PUBLICATIONS

CURVELO, Alexandra, Nanban Folding Screens Masterpieces. Japan-Portugal XVIIth Century. Paris: Éditions Chandeign, 2015. ISBN: 978-2-36732-121-9.

DIAS, M. I; PRUDÊNCIO, M. I; KASZTOVSZKY, Zsolt; MARÓTI, Boglárka; HARSÁNYI, Ildikó; FLOR, Pedro, "Nuclear techniques applied to provenance and technological studies of Renaissance majolica roundels", Journal of Radioanalytical and Nuclear Chemistry. 312, 2, 2017, pp.205 219. ISSN 0236-5731

LEAL, Joana Cunha, "A Long-Distance Call? Social Space and Corporation Nouvelle's Places of Production", Visual Resources, 2018. London: Taylor & Francis, Routledge.

LAMONI, Giulia, "SeeingThrough", Migration, Home-making and Friendship in Lourdes Castro's Work of the 1960s and 1970s", Third Text, 29, 2015, pp.266-286. ISSN: 0952-8822

MARTINS, Susana, "Photography as Anti-Museum? Conflicting Museological Concepts in the work of Joachim Schmid", Photographies, 7: 2, "Photography and Museums", 2014. London: Taylor & Francis, Routledge.

NOVA SCHOOL OF SOCIAL SCIENCES AND HUMANITIES

IHC

- > NAME INSTITUTE OF CONTEMPORARY HISTORY
- > ACRONYM IHC

> COORDINATOR Pedro Aires Oliveira

> CONTACTS, LOCATION

NOVA School of Social Sciences and Humanities Avenida de Berna, 26C, 1069-061 Lisboa, Portugal +351 217 908 300 – Ext. 1545

> WEBSITE

ihc.fcsh.unl.pt





BRIEF DESCRIPTION

The Institute of Contemporary History (IHC) develops its activity with an interdisciplinary approach, covering a wide range of topics concerning the conceptualization, contextualization and interpretation of the historical reality of the period between the Napoleonic wars and the present time. We benefit from the inputs of a diversified group of 156 PhD researchers, both foreign and Portuguese, of which around 1/3 devote themselves exclusively to research, 1/3 are higher education professors, and the other 1/3 divide their time between research and other professional activities.

The recognition that the IHC receives from the academic, scientific, educational, and cultural sectors in Portugal makes it an attraction Centre for a significant number of early-career researchers and professionals from several fields, namely archive, education, culture and tourism, and from state bodies. In the last five years, we welcomed over one hundred PhD students.

The IHC is strongly committed to the field of Public History and the social impact of scientific results. Our vast number of outreach and public history activities are organized into two programmes: The History Lab (dedicated to the promotion of historical and heritage research and knowledge in non-academic contexts) and Memory for All (aiming to find, gather, and share new historical sources, in collaboration with non-academics and in accordance with the scientific expertise).

This diverse profile endows the IHC with a significant responsibility for the advanced training in Modern and Contemporary History in Portugal, with an actual impact on the sustainability and renewal of the field, and on the presence and qualification of history in the public sphere. In 2019, the IHC will launch the first Portuguese Digital Humanities Laboratory, supporting research as well as outreach activities.

The IHC has research facilities both in Lisbon, at the NOVA School of Social Sciences and Humanities, and in Évora, at the University of Évora.

RESEARCH HIGHLIGHTS

Dicionário da História de Portugal

0 25 de Abril [Historical Dictionary of Portugal - The 25th of April] (Figueirinhas, 2016-2018, 8 Vols).

Portuguese Forced Labour in the III Reich

This international project, coordinated by Fernando Rosas and funded by the German foundation EVZ – Erinnerung, Verantwortung, Zukunft [Memory, Responsibility, Future], the Goethe-Institut, and the IHC, achieved remarkable notoriety, both in Portugal and abroad.

Europeana Sounds I www.eusounds.eu

This project (2014-2017) was co-funded by the European Commission (EC) and the Europeana Sounds consortium, with a total budget of 6.14M€ (4.91M€ EC contribution). It was coordinated by the British Library and it involved the work of 24 European institutions. Along with two other NOVA FCSH research units (INET-md and IELT), we were the Portuguese partner of the project.

Amílcar Cabral, From Political History to Politics of Memory

Coordinated by Rui Lopes, this FCT, I.P. funded project (PTDC/EPH-HIS/6964/2014) studies the articulation between the ideas of Amilcar Cabral (leader of the African Party for the Independence of Guinea and Cape Verde during the liberation struggle) and their reception, both in his lifetime and in subsequent memorialist works produced throughout the world.



SCIENTIFIC AREAS

Modern and Contemporary History:

Connected Histories: State-Building, Social Movements and Political Economy

Colonialism, Anti-Colonialism, and Post-Colonialism: Rethinking Empires and their Aftermaths

Precarious Worlds and Sustainability: Nature, Health, and Work

Modern Mediations: Arts, Technology, and Communication

Uses of the Past: Memory and Cultural Heritage

FACTS AND FIGURES



> STAFF

155 PhD HOLDERS

68 PhD STUDENTS

> IHC OVER THE PAST 5 YEARS:



442 Articles441 Book Chapters184 Books120 SCOPUS Articles



5.4M€ FCT, I.P. National Funding 492k€ Other National Funding

300K€ International Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Alves, Daniel, Ana Paula Barreira, Maria Helena Guimarães & Thomas Panagopoulos. "Historical trajectories of currently shrinking Portuguese cities: A typology of urban shrinkage," Cities 52 (2016): 20-29.

Brandão, Tiago. "Shaping Portuguese science policy for the European horizon: The discourses of technological change," Technological Forecasting And Social Change B 116 (2016): 168-184.

Queiroz, Ana Isabel & Filipa Soares. "Birds in Portuguese literature." Environment and History 22 (2016): 229–254.

Lopes, Rui. "An Oasis in Europe: Hollywood Depictions of Portugal during the Second World War," Journal of Contemporary History 52 (2017): 375-398.

Oliveira, Pedro Aires. "A Sense of Hopelessness? Portuguese Oppositionists Abroad in the Final Years of the Estado Novo, 1968– 1974," Contemporary European History 26 (2017): 465-486.

NOVA SCHOOL OF SOCIAL SCIENCES AND HUMANITIES

INET-md

> NAME

ETHNOMUSICOLOGY INSTITUTE - MUSIC AND DANCE RESEARCH CENTRE

> ACRONYM INET-md

> COORDINATOR Salwa El-Shawan Castelo-Branco

> CONTACTS, LOCATION

NOVA School of Social Sciences and Humanities Avenida de Berna, 26C, 1069-061 Lisboa, Portugal +351 217 908 300

> WEBSITE inetmd.pt







BRIEF DESCRIPTION

The Instituto de Etnomusicologia – Centro de Estudos em Música e Dança is an interdisciplinary research unit with headquarters at the FCSH UNL and three branches at the DeCA-UA, FMH-UL and the ESE-IPP. Its mission is:

- To carry out transdisciplinary research on music and dance, using current perspectives from Ethnomusicology, Historical Musicology, Cultural Studies, Popular Music Studies, Ethnochoreology, Education, Music Theory, Analysis, Performance Studies, Music Acoustics and Sound Studies;
- > To develop collaborative partnerships with local communities, scholars, artists, policy-makers, national and international institutions towards a democratic and decolonial construction of knowledge addressing the unprecedented mobility of individuals, environmental change, social inequity and conflict;
- > To promote research on music and dance addressing issues related to colonial pasts and postcolonial contexts, especially in areas with deep historical connections to Portugal;
- > To consolidate artistic research on music and dance performance and composition;
- To develop and consolidate research in sound production and perception based on physical and psycho-acoustic principles;
- To consolidate audiovisual archiving and make the sources and results of research available through open access online databases.

INET-md has several offices and a seminar room where doctoral seminars, talks and other post-graduate programs are held. The Institute also has three sound and audiovisual laboratories for the digitalization and restoration of early sound and moving image recordings, as well as sound and acoustics research. All three laboratories offer training on the undergraduate and Post-Graduate levels as well as external services in their areas of specialty.

RESEARCH HIGHLIGHTS

The 5 Major Projects of INET-md that received more funding in 2018:

PI: Salwa Castelo-Branco I Co-PI: Rui Cidra

ORFEU (1956-1983): The Politics and aesthetics of popular music production and consumption in modern Portugal.

PI: João Soeiro de Carvalho I Co-PI: Vincent Debut

Music research and new Technologies toward the restitution of the Timbila collection of the National Museum of Ethnology.

PI: Iñigo Sanchez I Co-PI: Salwa Castelo-Branco

Sounding Lisbon as Tourist City: Sound, Tourism and the Sustainability of Urban Ambiances in the Post-industrial City

PI: Filippo Bonini Baraldi I Co-PI: Salwa Castelo-Branco HELP-MD - The Healing and Emotional Power of Music and Dance.

PI: Rui Vieira Nery I Co-PI: Francesco Esposito PROFMUS - To be a musician in Portugal: the social and professional condition of musicians in Lisbon (1750-1985).



SCIENTIFIC AREAS

Ethnomusicology and Popular Music Studies Historical and Cultural Studies in Music Musical Acoustics and Sound Studies Creation, Performance and Artistic Research Dance Studies Education and Music in the Community

FACTS AND FIGURES





175 Articles

- 164 Book Chapters
- 33 Books
- 27 SCOPUS Articles



323k€ FCT, I.P. National Funding

433k€ Strategic Projects

16K€ External Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Salwa El-Shawan Castelo-Branco (2018). Music in Portugal and Spain: Experiencing Music, Expressing Culture. Global Series. New York: Oxford University Press.

Iñigo Sanchez (2017)."Mapping out the Sounds of Urban Transformation" in Christine Guillebaud (ed.) 2017. Toward an Anthropology of Ambient Sound. Routledge Studies in Anthropology.

João Silva (2016). Entertaining Lisbon: Music, Theater, and Modern Life in the Late 19th Century. New York: Oxford University Press.

Manuel Deniz Silva; Esteban Bush, Igor Contreras (eds.) (2016). Composing for the State: Music in 20th-Century Dictatorships. Farnham (GB): Ashgate e Fondation Cini.

Salwa El-Shawan Castelo-Branco, Pedro Roxo (2016). "Jazz, Race and Politics in Colonial Portugal: Discourses and Representations (1924-1971)." In Jazz World, World Jazz in Philip Bohlman and Goffredo Plastino. Chicago: Chicago University Press.

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NOVA SCHOOL OF SOCIAL SCIENCES AND HUMANITIES

IPRI

> NAME

PORTUGUESE INSTITUTE FOR INTERNATIONAL RELATIONS

> ACRONYM IPRI

> COORDINATOR Nuno Severiano Teixeira

- CONTACTS, LOCATION
 Rua de D. Estefânia, 195 5°D
 1000-155 Lisboa, Portugal
 +351 213 141 176
- > WEBSITE ipri.pt

INSTITUTO português de RELAÇÕES internacionais

IPRI

BRIEF DESCRIPTION

The IPRI is an Institute dedicated to advanced studies in Political Science and International Relations. As an Institute dedicated to advanced studies in Political Science and International Relations IPRI-NOVA defines itself as a structured and integrated project around three fundamental axes: scientific research; specialized training – doctoral and post-doctoral programmes; and knowledge transfer and social value creation.

IPRI works according to the paradigm of the research university integrating research and training, that is, an Institute where knowledge is produced, in its fields of expertise and where teaching is carried out in a research environment.





IPRI assumes its social responsibility and its public mission in the contemporary society, developing applied research, strengthening its relationship with the public policy making world and increasing its presence in the public sphere.

IPRI cultivates excellence and wishes to be acknowledged by the quality of its theoretical research, the relevance of its empirical studies and its commitment to the western values and epistemologies. Its theoretical work is defined by standards internationally recognized by the state of the art of its disciplines and wants to stand amongst the best in its disciplinary areas – Political Science and International Relations. The Institute also aims to promote dialogue and interdisciplinary and transdisciplinary projects involving other areas, as it is already doing in its research projects as well as in the Globalization Studies doctoral programme.

IPRI promotes a policy of advanced training that integrates teaching/research and incorporates the doctoral and postdoctoral students in the research projects. In this way, besides the advanced training present in the post-doctoral projects and the two Doctoral Programmes undergoing – Political Science and International Relations – the Institute is involved in an internationally competitive Doctoral Programme: open, transdisciplinary, issue oriented and offered in English, the Portuguese Foundation for Science and Technology (FCT, I.P.)-funded Doctoral Programme on Global Studies. Regarding knowledge transfer and social value creation domain, the Institute assumes its social responsibility. Its scientific agenda is defined by fundamental research, but when the knowledge produced may be socially useful, the Institute has a policy of knowledge transfer, making it available to the society as a public good.

IPRI promotes oriented research and applied knowledge and has developed a relationship with the public policy-making and to the demands and challenges of society. This has been evinced by the support to decision-making, in public policies or in the entrepreneurial sector, as well as, in its presence in the media reinforcing its position in the public sphere. Besides that, develops its own tools of knowledge dissemination: the website, its publications, and the publishing of the quarterly academic journal R:I.

The Library of IPRI is specialised in the field of social sciences and humanities, with a focus on International Relations and Comparative Politics. Its main aim is to support IPRI's researchers, but it is also open to the public. It currently holds 2878 volumes, of which 2659 are monographs and 83 journals.

RESEARCH HIGHLIGHTS

DemoCris I Democracy in times of crisis: Power and Discourse in a three-level game Coordinator: Catherine Moury I PTDC/IVC-CP0/2247/2014

Opposition parties in Europe under pressure. Far from power, close to citizens? PI: Elisabetta de Giorgi | IF/00926/2015

RELEPAGI | From Representation to Legitimacy? Political Parties and Interest Groups in Southern Europe Coordinator: Marco Lisi | PTDC/IVC-CP0/1864/2014

Varieties of Democracy in Contemporary Portugal I www.fcsh.unl.pt/v-dem

SCIENTIFIC AREAS

EUROPEAN UNION:

Democracy and Governance State, citizenship, and civil society Institutions and public policies Behaviour of political actors

Globalization and Regionalism International Politics European and Regional Studies Global Studies

Strategic Foresight and Planning Mapping the past; Building the future; European and Portuguese post-crisis strategies

FACTS AND FIGURES





44 PhD HOLDERS 49 PhD STUDENTS

> IPRI OVER THE PAST 5 YEARS:





- **199** Book Chapters
- 68 Books
- 69 SCOPUS Articles



175k€

FCT, I.P. National Funding

269k€ Other National Funding

50K€ International Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

U-Turn: The Portuguese Radical Left from Marginality to Government Support, Marco Lisi, South European Society and Politics, 2016.

Government-Opposition in Southern European Countries, Elisabetta De Giorgi e Catherine Moury, 2015, Routledge.

Globalization and international security: An overview, Teresa Ferreira Rodrigues, 2014, NOVA Publishers.

China-Brazil: A strategic partnership in an evolving world order, Daniel Cardoso, 2013, East Asia.

Variedades de Democracia na Europa do Sul 1968-2016, Tiago Fernandes, 2017, Imprensa de Ciências Sociais.

NOVA SCHOOL OF BUSINESS & ECONOMICS

Nova SBE

> NAME NOVA SCHOOL OF BUSINESS & ECONOMICS

> ACRONYM Nova SBE

> COORDINATOR Miguel Pina e Cunha

> CONTACTS, LOCATION

NOVA School of Business and Economics Campus de Carcavelos, Rua da Holanda, n.1, 2775-405 Carcavelos, Portugal +351 213 801 600

> WEBSITE

www.novasbe.pt

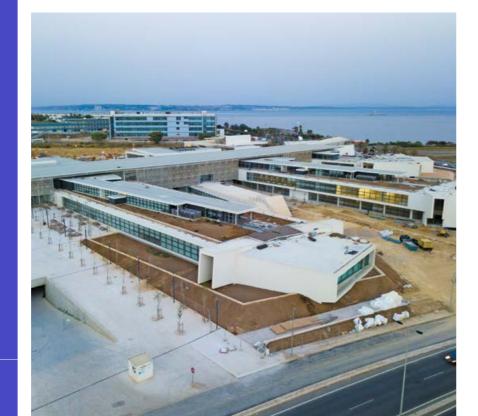


BRIEF DESCRIPTION

Nova SBE's mission is to build a global school dedicated to the development of talent and knowledge that produces impact across society. It aims to achieve this mission via international recognition, the increasingly international composition of students and faculty, and the new campus. The Research Unit's mission is closely aligned with the School's mission.







Cross-disciplinary orientation reflects the identity of the Research Unit. Despite the research diversity, Nova SBE joins its researchers into a single unit, recognizing the variety of research that takes place in the School. The President of the Faculty Council has the responsibility for coordinating the research strategy of the School, assuming the role of the Unit's coordinator. He is assisted by three professors representing the major disciplinary areas (Economics, Finance, and Management), acting as a steering committee for research. An External Advisory Committee, whose members are renowned scholars from prestigious universities, undertakes periodic evaluations of the Unit's activities.

The new Carcavelos *campus* is a cornerstone for the dynamics of progress supporting the School's ambition to become a global brand in higher education: attracting more high-quality students and faculty producing impactful research; promoting a sense of belonging in the network of *alumni*; enhancing corporate and institutional partnerships; fundraising for investing in academic quality; and improving international visibility which in turn will attract more talent, in a virtuous cycle.

Researchers benefit from excellent conditions, including the School's participation in international networks. Weekly seminar series with invited speakers from top international departments are organized, giving the researchers the opportunity to gain exposure to state of the art research. They also get support to present their papers in conferences. Researchers also benefit from the strong support of the Research Office (RO), an operational area that helps them in the implementation of activities, including grants' applications, project management, and research communication.

Nova SBE hosts the Social Sciences Data Lab (DataLab), an infrastructure integrated in the National Roadmap of Research Infrastructures, providing access to an essential set of databases for conducting advanced research in Social Sciences. It includes bibliographic and statistical databases in the fields of Economics, Finance, and Management. DataLab, in a partnership with University of Minho, also supports the SHARE-ERIC project, the first European Research Infrastructure Consortium, providing data on health, ageing and retirement in Europe. DataLab offers the research community access to these resources, online or onsite, and also provides training and support to users.

RESEARCH HIGHLIGHTS

Universal banking, corporate control and financial crises PI: Miguel Ferreira IERC Starting Grant (2012–2018)

Improving Quality of Care in Europe

PI: Pedro Pita Barros I European Commission, Marie Skłodowska-Curie Action - Innovative Training Networks (MSCA - ITN) (2017-2020)

The economic valuation and governance of marine and coastal ecosystem services

PI: Antonieta Cunha e Sá | Fundação Calouste Gulbenkian (2014-2017)

On the mechanics of the natural resource curse: Information and local elite behavior in Mozambique

PI: Pedro Vicente. International Initiative for Impact Evaluation (3ie)(2015-2018)

SCIENTIFIC AREAS



FACTS AND FIGURES

> STAFF



82 PhD HOLDERS 93 PhD STUDENTS

> Nova SBE OVER THE PAST 5 YEARS:

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(⊒)	229	Articles
	199	Book Chapters
	68	Books
	69	SCOPUS Articles



5.2M€ FCT, I.P. National Funding 2.5M€

1.2M€ International Funding

SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Adelino, M., Cunha, I., & Ferreira, M. A. (2017). The economic effects of public financing: Evidence from municipal bond ratings recalibration. *The Review of Financial Studies, 30*(9), 3223-3268.

Barros, P. P., & Braun, G. (2017). Upcoding in a national health service: The evidence from Portugal. *Health Economics*, 26(5), 600-618.

Cunha e Sá, M. A. & Franco, S. F. (2017). The effects of development constraints on forest management at the urban-forest interface. *American Journal of Agricultural Economics*, 99(3), 614–636.

Cunha, M. P., & Putnam, L. L. (First Published Online - 2017). Paradox theory and the paradox of success. *Strategic Organization*.

Cuypers, I. R. P., **Cuypers**, **Y**., & Martin, X. (2017). When the target may know better: Effects of experience and information asymmetries on value from mergers and acquisitions. *Strategic Management Journal*, 38(3), 609-625.

NOVA MEDICAL SCHOOL

- > NAME iNOVA4Health - ADVANCING PRECISION MEDICINE
- > ACRONYM iNOVA4Health

> COORDINATOR Manuel Carrondo

> CONTACTS, LOCATION

Oeiras Branch iBET and ITQB NOVA Estação Agronómica Nacional – INIAV Edifício ITQB/iBET Av. República, Quinta do Marquês, 2780-157 Oeiras, PORTUGAL

Lisbon Branch CEDOC-NMSIFCM Campo Mártires da Pátria, 130, 1169-056 Lisboa, Portugal

IPOLFG R. Prof. Lima Basto, 1099-023 Lisboa, Portugal

> WEBSITE www.inova4health.com

i**NOVA**4Health

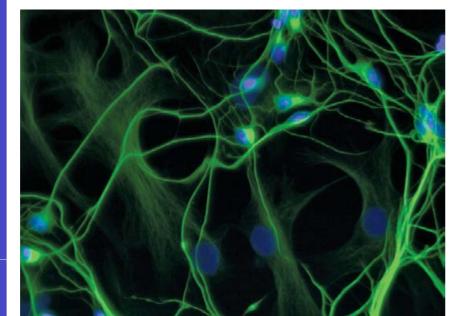
-Advancing Precision Medicine-

BRIEF DESCRIPTION

The aim of iNOVA4Health is to achieve excellence in translational research so as to improve precision medicine clinical practices based on increasing knowledge of the mechanisms of disease and its translation to the bedside. The majority of the iNOVA4Health researchers are from NOVA and comprise: a) biomedical researchers searching biological mechanisms of disease, pre-discovery of leads and biopharmaceuticals; b) scientists developing technologies and engineering the production of biopharmaceuticals; c) clinicians applying mechanistic knowledge for improved diagnosis, treatment and first in man clinical trials.







Two of the key partners of the consortium are NOVA Organic Units: NOVA Medical School (NMS - www.nms.unl.pt), through its research arm CEDOC (Chronic Diseases Research Centre - www.cedoc.unl.pt), brings in fundamental, pre-clinical and clinical research, including selected clinicians from 10 hospitals academically linked with NMS; NOVA Institute of Chemical and Biological Technology António Xavier (ITQB NOVA - www.itqb.unl. pt), covers biophysics and biochemical molecular basis for drug design, advanced analytics and technology development. The other two partners are IPOLFG (Oncology - www.ipolisboa.min-saude. pt), the largest cancer Hospital in Portugal, carries out clinical work and translational research in Oncology; and iBET (Experimental Biology and Technology - www.ibet.pt) a private not-for-profit institution dedicated to developing and transferring knowledge in biopharmaceuticals production, which manages the consortium.

The partners created this iNOVA4Health Unit in 2015 when a 2-phase implementation was proposed: i) bottom-up projects launched initially to ensure that groups would break interfaces (40 projects funded), ii) for the 2018-2022 phase, we now decided to focus on 3 Thematic Lines (TL) which emerged as more competitive during the first phase: Neurological and Vision Disorders, Cardio-Metabolic Disorders and Cancer, so as to coordinate projects into synergistic research programmes. Importantly, all teams are committed to these common goals, strengthening the internationalisation of the Unit by creating more diverse, broader and complementary teams.

iNOVA4Health researchers have access to the partner's state-ofthe art infrastructure and facilities. These include technologies such as NMR, Mass Spectrometry, X-Ray Crystallography, , EPR, FT-IR, Raman and Mössbauer spectrometry, Surface Plasmon Resonance, Protein Sequencing, Next Generation Sequencing, Flow Cytometry, Confocal and Super Resolution Microscopy (SR-SIM and PALM). There are facilities for advanced animal cell culture, vivariums for work with Drosophila, zebrafish and rodents, and a Clinical Research Unit to manage clinical trials in humans. GMP production is supported by a Bio-Pilot Plant, a Downstream Processing Unit, and certified Analytical Services.

The iNOVA4Health unit represents an ambitious and pioneering effort to achieve an internationally competitive translational research programme in Portugal. The key ingredients for success are the complementarity of expertise bridging fundamental, technological and clinical research, the perceived need to change current culture, the mix of top-down and bottom-up funding to allow both focus and creativity, an excellent and committed Scientific Advisory Board and the ability to engage private partners such as pharmaceutical companies.

RESEARCH HIGHLIGHTS

H2020 Teaming project: The Discoveries Centre for Regenerative and Precision Medicine I UCL partner is benchmarking for TL1

ERC-StG: LIMBo, Zooming the link between diet and brain health: Phenolic metabolites impact brain inflammation? | PI: Cláudia Santos

ERC-StG: StemCellHabitat, Metabolic and Timed Control of Stem Cell Fate in the Developing Animal I PI: Catarina Fernandes Homem

Development of a patient-derived cancer cell model platform

SCIENTIFIC AREAS

Health Sciences: Clinical and Translational Research Neurological and Vision Disorders Cardio-Metabolic Disorders Cancer

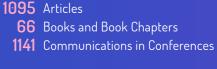
FACTS AND FIGURES



162 PhD HOLDERS 94 PhD STUDENTS 88 MEDICAL DOCTORS







Clinical Trials



5,5M€ R&D Unit Pluriannual funding

9,9M€ FCT, I.P. National

3,7M€ Other National Funding

22,8M€ International Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Xue K, Jolly JK, Barnard AR, Rudenko A, Salvetti AP, Patricio MI, Edwards TL, Groppe M, organs H0, Tolmachova T, Black GC, Webster Ar, Lotery AJ, Holder GE, Downes, SM, Seabra MC, MacLaren RE. (2018). Beneficial effects on vision in patients Undergoing retinal gene therapy for choroideremia. Nature Medicine 24(10):1507-1512.

Simão D, Silva MM, Terrasso AP, Arez F, Sousa MFQ, Mehrjardi NZ, Šarić T, Gomes-Alves P, Raimundo N, Alves PM, Brito C. (2018). Recapitulation of Human Neural Microenvironment Signatures in iPSC-Derived NPC 3D Differentiation. Stem Cell Reports 11(2):552-564.

Rebelo SP, Pinto C, Martins TR, Harrer N, Estrada MF, Loza-Alvarez P, Cabeçadas J, Alves PM, Gualda EJ, Sommergruber W, Brito C. (2018). 3D-3-culture: A tool to unveil macrophage plasticity in the tumour microenvironment. Biomaterials 163:185-197.

Sacramento JF, Chew DJ, Melo BF, Donegá M, Dopson W, Guarino MP, Robinson A, Prieto-Lloret J, Patel S, Holinski BJ, Ramnarain N, Pikov V, Famm K, Conde SV. (2018). Bioelectronic modulation of carotid sinus nerve activity in the rat: a potential therapeutic approach for type 2 diabetes. Diabetologia. 61(3):700-710.

Ubelmann F, Burrinha T, Salavessa L, Gomes R, Ferreira C, Moreno N, Guimas Almeida C. (2017). Bin1 and CD2AP polarise the endocytic generation of beta-amyloid. EMB0 Reports 18(1):102-122.

NOVA MEDICAL SCHOOL ToxOmics

> NAME

CENTRE FOR TOXICOGENOMICS AND HUMAN HEALTH

> ACRONYM ToxOmics

> COORDINATOR José Rueff

> CONTACTS, LOCATION

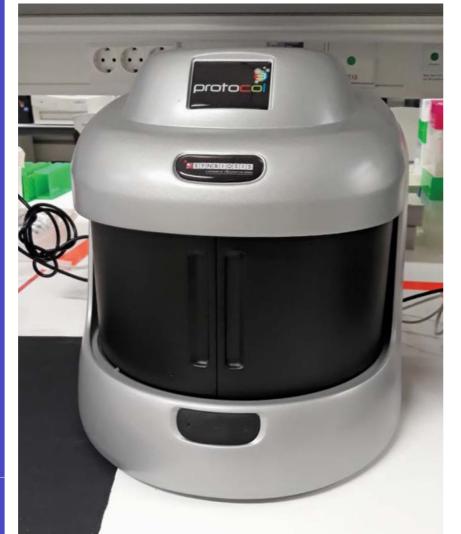
NOVA Medical School NOVA University Lisbon Rua Câmara Pestana 6, 1150-008 Lisboa, Portugal +351 218 803 030

> WEBSITE toxomics.fcm.unl.pt









BRIEF DESCRIPTION

The Centre for Toxicogenomics and Human Health (Toxomics) was established in 2015 following the Centre for Research in Human Molecular Genetics created in 1992 and coordinated by Professor Luis Archer until 2000 followed by Jose Rueff. The Centre made contributions to nanotheragnostics, environmental genotoxicity and molecular epidemiology and genetic determinants of disease, v.g. cancer. From 2013 to 2017, 103 international articles were published. The R&D goals of the Centre, using genomic and postgenomic methods are the study of molecular, biochemical and cellular aspects of human genetic disorders and environmental stress through the following approaches (i) exposure assessment, responses to stressors and biological monitoring, (ii) variability in gene expression and regulation in the disease process and therapeutic response, (iii) evaluation and development of toxicogenomic and toxicoproteomic biomarkers. The Centre coordinates research teams from the NMS/FCM and INSA.

The Centre's mission can be described in the interplay of prevention and susceptibility to disease and in advanced training in toxicogenomics as applied to human health.

Laboratory equipments and facilities at NMSIFCM are used jointly with other teams, namely of CEDOC, and include, among others: confocal microscopy, fluorescent microscopy; tissue culture facilities and microbiological facilities with fully equipped sterile pressure-controlled rooms; ultracentrifuge and refrigerated centrifuges; Real time PCR equipments; various PCR equipments, multichannel fluorimeter; research microscopes. NGS equipment is available at the laboratories at INSA, together with fully equipped proteomics laboratory.

RESEARCH HIGHLIGHTS

A new strategy for risk assessment of nanomaterials was developed within the FP7 NANoREG project, in which the aspects of the exposure, kinetics or hazard assessment that are most likely to be influenced by the specific properties of nanomaterials were identified.

Acrylamide (AA) is a probable human carcinogen, formed in many carbohydraterich foods prepared at high temperatures. The cytotoxicity and genotoxicity of the epoxide glycidamide (GA), the ultimate genotoxic metabolite of AA, were assessed. GA and specific GA-DNA adducts were assessed in human cells exposed to GA. Key polymorphic genes were correlated with biomarkers of DNA damage and correlation between DNA damage and genetic susceptibility was observed. These data enable the further correlation between dietary AA exposure and cancer risk in human populations.

The relationship between miR-203a expression and clinicopathological features of breast cancer was studied in a breast cancer cohort, and we showed that miR-203a could represent a potential biomarker for invasiveness, and also a potential biomarker to discriminate stages in invasive lobular carcinoma.

Cytochrome P450s (CYP) are one of the most important detoxifying enzyme families. Genetic polymorphisms of specific CYP isoforms and redox partners of these enzymes were studied, yielding clinically relevant information as well as valuable data for risk assessment. A fundamental. Study on protein dynamics of cytochrome P450 reductase allowed the identification of crucial structural features of the protein which control its electron transfer, and thus the activity of CYPs.

SCIENTIFIC AREAS

Genetics and Toxicology

DNA Damage & Repair Drug Response & Resistance Environmental Mutagenesis Proteomics & Bioinformatics Xenobiotic Metabolism

FACTS AND FIGURES





13 PhD HOLDERS 8 PhD STUDENTS

> ToxOmics OVER THE PAST 5 YEARS:



182 Articles16 Books and Book Chapters





Communications in National and International Meetings

1.75M€ FCT, I.P. National Funding

116 K€ Other National Funding

233K€ International Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Campelo, D., Lautier, T., Urban, P., Esteves, F., Bozonnet, S., Truan, G., & Kranendonk, M. The Hinge Segment of Human NADPHCytochrome P450 Reductase in Conformational Switching: The Critical Role of Ionic Strength. Frontiers in Pharmacology, 2017; 8, 755.

Collins, A. R., Annangi, B., Rubio, L., Marcos, R., Dorn, M., Merker, C., ... & Ostermann, M. (2017). High throughput toxicity screening and intracellular detection of nanomaterials. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 9(1), e1413.

Feliciano, A., Vaz, F., Torres, V. M., Valentim-Coelho, C., Silva, R., Prosinecki, V., Penque, D. Evening and morning peroxiredoxin-2 redox/oligomeric state changes in obstructive sleep apnea red blood cells: Correlation with polysomnographic and metabolic parameters. Biochimica et Biophysica Acta - Molecular Basis of Disease, 2017; 1863(2), 62.

Azevedo AP, Silva SN, Reichert A, Lima F, Júnior E, Rueff J. Prevalence of the Janus kinase 2 V617F mutation in Philadelphianegative myeloproliferative neoplasms in a Portuguese population. Biomed Rep. 2017; 7(4):370-376.

Azevedo AP, Silva SN, De Lima JP, Reichert A, Lima F, Júnior E, Rueff J. DNA repair genes polymorphisms and genetic susceptibility to Philadelphia-negative myeloproliferative neoplasms in a Portuguese population: The role of base excision repair genes polymorphisms. Oncol Lett. 2017;13(6):4641-4650.

NOVA SCHOOL OF LAW

> NAME RESEARCH CENTER ON LAW AND SOCIETY

ACRONYM

> CEDIS

COORDINATOR

Armando Marques Guedes

CONTACTS, LOCATION

NOVA School of Law NOVA University Lisbon, Campus de Campolide, 1099-032 Lisboa, Portugal +351 213 847 466

WEBSITE

cedis.fd.unl.pt







BRIEF DESCRIPTION

CEDIS was created to be an innovative research centre on Law and Society, reflecting NOVA School of Law approach to legal studies. CEDIS' mission, as stated in its by-laws, is to study Law and its relationships with society, by means of integrating legal and non-legal approaches to research; to study new or emergent legal realities; to bring to the foreground the study of practical applications of the Law; the implementation of a new pedagogic and didactic model; to support projects aiming to provide services to the community; and increasing the projection of Portuguese legal studies. Its strengths are: a plural vision of Law in contemporary society; an interdisciplinary and Innovative Approach to Legal Research; international Networking with European and Portuguese-Speaking Countries; different backgrounds of the researchers and an open access orientation.

In order for this to be achieved, CEDIS is managed by a Board, with scientific direction from the Scientific Council, also counting on the reports from an External Advisory Committe. Its researchers are organized in clusters and projects, and are divided into Integrated Researchers with PhD, Integrated Researchers without PhD and Collaborators, whose main research topics are now: private and Public Law on the aftermath of worldwide economic crisis; international legal phenomena, with special regard to European Law and the Law of Portuguese Speaking Countries; security and criminal Law, exploring the dichotomy arising from security and civil liberties, as well as new criminal realities; new technologies and regulation needs, anti-discrimination laws; new mechanisms for the exercise of democracy and models of public intervention; contextualization of legal phenomena with the contribution of social sciences.

Regarding its facilities, CEDIS is located at the NOVA School of Law in *Campus* de Campolide (Lisboa). It provides: a room for meetings and both group and individual research; access to the Faculty's legal library (more than 36500 books on Law and Other areas; 255 journals, national and internacional); access to online legal databases such as LegisPalop, Kluwer Law Online, vLex.

RESEARCH HIGHLIGHTS

Legal pluralism in the Portuguese Empire (18th-20th century). PI: Cristina Nogueira da Silva I FCT, I.P.

The law-making as a means of implementing public policies: quantitative and socioeconomic analysis.

PI: Francisco Pereira Coutinho I FCT, I.P.

Intra-África Pax Lusófona [NOVA Law School is the Technical Partner] For the technical partner Jorge Bacelar Gouveia | European Commission | 2017

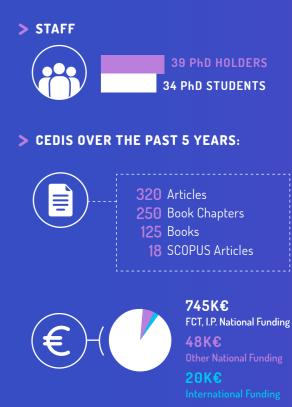
NOVA Saúde Project 'Lisbon: a model city in the integration of the hearingimpaired community'.

PI: Helena Pereira de Melo I NOVA Health.

SCIENTIFIC AREAS

Law & Social Sciences Economic Dimensions of Public and Economic Law International and European Law Security and Criminal Law New themes on Public and Private Law Interdisciplinary perspectives on Law

FACTS AND FIGURES



> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Guedes, Armando Marques (2015), Liaisons dangereuses: reading and riding the winds of security risks in the Atlantic south, in Dark Network in the Atlantic Basin. Emerging Trends and Implications for Human Security, Daniel Hamilton (Ed.), Washington DC, Center for Transatlantic Relations SAIS, pp. 205-237;

Feteira, Lúcio Tomé (2015), The Interplay between European and National Competition Law after Regulation 1/2003 - United (Should) We Stand?; Wolters Kluwer International, International Competition Law Series Volume 64.

Martins, João Zenha (2016), Dos pactos de limitação à liberdade de trabalho, Coimbra, Almedina

Gouveia, Mariana França (2014), Curso de Resolução Alternativa de Litígios, 3rd edition, Coimbra, Almedina.

Gouveia, Jorge Bacelar (2018), Direito e Segurança: Cidadania, Soberania e Cosmopolitismo, Coimbra, Almedina.

NOVA INSTITUTE OF HYGIENE AND TROPICAL MEDICINE GHTM

> NAME GLOBAL HEALTH AND TROPICAL MEDICINE

> ACRONYM GHTM

> COORDINATOR Henrique Silveira

CONTACTS, LOCATION NOVA IHMT Rua da Junqueira Nº 100, 1349-008 Lisboa, Portugal +351 213 652 678

> WEBSITE ghtm.ihmt.unl.pt











BRIEF DESCRIPTION

GHTM is a R&D Centre that brings together researchers from the Institute of Hygiene and Tropical Medicine of NOVA University Lisbon with a track record in Tropical Medicine and International/Global Health. It aims at strengthening Portugal's role as a leading partner in the development and implementation of a global health research agenda. GHTM's evidence-based interventions contribute to the promotion of equity in health and to improve the health of populations.

Our mission is to produce knowledge on global health and tropical medicine, develop tools and strengthen health systems through excellence in research, training and systems implementation.

Our organizational framework consists of four research groups; each include researchers with expertise in different areas. These are the following:

- Vector Borne Diseases (VBD),
- Tuberculosis, HIV and Opportunistic Diseases (THOP),
- Population Health, Policies and Services (PPS) and
- Individual Health Care (IHC).

In order to achieve cutting-edge outputs, the Centre operates in a transdisciplinary context in which relevant data and materials are exchanged between scientists in the different groups. The major research areas that are of shared interest – crosscutting issues, constitute the guiding principles of our working model and are the following:

- Global pathogen dispersion and population mobility,
- Drug discovery & resistance,
- Diagnostics,
- Fair research partnerships, and
- Public health information.

We host the WHO Collaborating Centre on Health Workforce Policy and Planning that supports the WHO's strategic goal of optimizing the impact of the current and future health workforce on achieving healthy lives, universal health coverage and global health security through research, training and strategic advice.

Besides standard laboratory facilities, GHTM as specialized infrastructure such as: BSL-3 labs; accredited animal house; insectaries for breeding mosquitoes and sandflies; a Biobank – Biotropical Resources; and an Arthropod Safety Level 3 facility – VIASEF (Roadmap for Research Infrastructures, FCT, FEDER) is under construction.

RESEARCH HIGHLIGHTS

mosquitoWEB Citizen Science Project | mosquitoweb.ihmt.unl.pt

LusoAfro Bioethics Project

This project aims to improve the review the process of protocol, reviewing and strengthening the functions of ethics committees in three Portuguesespeaking African countries: Angola, Cape Verde and Mozambique.

ZIKAlliance | zikalliance.tghn.org

A Global Alliance for Zika Virus Control and Prevention. ZIKAlliance is a multinational and multi-disciplinary research consortium comprised of 53 partners worldwide.

HAITooL | haitool.ihmt.unl.pt

A Toolkit to Prevent, Manage and Control Healthcare Associated Infections (HAIs) in Portugal.

Drug Resistance – Technological bases for the development of new fast diagnostic (nanotechnology and diagnosis in paper – nanotechnology & lab on paper. Partnerships with FCT-UNL: EFortunato and PBaptista.

SCIENTIFIC AREAS

Biomedical Sciences Global Public Health Tropical Medicine

FACTS AND FIGURES

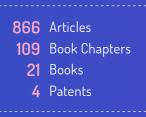
> STAFF



84 PhD HOLDERS 126 PhD STUDENTS

> GHTM OVER THE PAST 5 YEARS:







5.5M€ FCT, I.P. National Funding 878K€

Other National Funding

1.0M€ International Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Pinto, J.; The Anopheles gambiae 1000 Genomes Consortium, Genetic diversity of the African malaria vector anopheles gambiae, 2017, Nature, 552: 96-100

Yilmaz B, Portugal S, Tran TM, Gozzelino R, Ramos S, Gomes J, Regalo A, Cowan PJ, d'Apice JPA, Chong AS, Doumbo OK,Traore B, Crompton PD, Silveira H, Soares MP. Gut Microbiota Elicits a Protective Immune Response against Malaria Transmission. Cell. 2014; 159(6): 1277-89.

Faria NR, Rambaut A, Suchard MA, Baele G, Bedford T, Ward MJ, Tatem AJ, Sousa JD, Arinaminpathy N, Pepin J, Posada D, Peeters M, Pybus OG, Lemey P, 2014. The early spread and epidemic ignition of HIV-1 in human populations. Science 346: 56-61

Theys, K, Libin, P, Dallmeier, K, Pineda-Peña, A-C, Vandamme, A-M, Cuypers, L, Abecasis, AB,Zika genomics urgently need standardized and curated reference sequences, 2017, PLoS Pathogens, 13(9): e1006528

Coll, F, Phelan, J, Hill-Cawthorne, GA, Nair, MB, Mallard, K, Ali, S, Abdallah, AM, Alghamdi, S, Alsomali, M, Ahmed, AO, Portelli, S, Oppong, Y, Alves, A, Bessa, TB, Campino, S, Caws, M, Chatterjee, A, Crampin, AC, Dheda, K, Furnham, N, Glynn, JR, Grandjean, L, Minh Ha, D, Hasan, R, Hasan, Z, Hibberd, ML, Joloba, M, Jones-López, EC, Matsumoto, T, Miranda, A, Moore, DJ, Mocillo, N, Panaiotov, S, Parkhill, J, Penha, C, Perdigão, J, Portugal, I, Rchiad, Z, Robledo, J, Sheen, P, Shesha, NT, Sirgel, FA, Sola, C, Oliveira Sousa, E, Streicher, EM, Helden, PV, Viveiros, M, Warren, RM, McNerney, R, Pain, A, Clark, TG 2018, Genome-wide analysis of multi- and extensively drug-resistant Mycobacterium tuberculosis, Nature genetics, vol 50, no 2, pp 307-316.

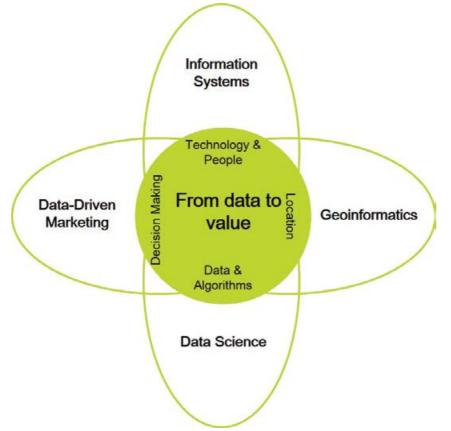
NOVA INFORMATION MANAGEMENT SCHOOL

MagIC

- > NAME INFORMATION MANAGEMENT RESEARCH CENTRE
- > ACRONYM MagIC
- > COORDINATOR Tiago Oliveira
- CONTACTS, LOCATION
 NOVA University Lisbon
 Campus de Campolide
 1070-312 Lisboa, Portugal
 +351 213 828 610
- > WEBSITE www.novaims.unl.pt

MagIC







BRIEF DESCRIPTION

MagIC (Information Management Research Centre) is focused on using information to develop and improve organizations and society in general. The main objective is to contribute to the advance of the field of Information Management and Data Science. MagIC researchers are committed to improve information usage and reliability, while developing tools and methods to promote data-driven decision-making.

The contributions of the research centre are focused essentially in finding ways to use information management and data science to improve productivity and sustainability through data-driven decision-making. It's clear that the ability of technology to capture and store data has not yet been matched by its ability to transform data into actionable and relevant information. We live in a data rich environment, but the tools to make sense of all that data are still somewhat limited. Moreover, the dawn of big data will only make this problem/opportunity more apparent, while presenting new and harder challenges. Recent developments have produced significant enthusiasm about how the meeting between big datasets and very powerful computers will change this state of things. MagIC researchers share the enthusiasm for this new and exciting field and are committed to help shape information-rich environments, as a transformative force for positive change in science and business. The ability to find insights in our data-intensive society translates into new and clever solutions for pressing societal challenges.

RESEARCH HIGHLIGHTS

In 2015 MagIC secured a 3.7 million funding for the Joint Doctorate in Geoinformatics: Enabling Open Cities funded by the Marie Sklodowska-Curie Actions, International Training Networks (ITN), European Joint Doctorates (EJD). This Doctorate program is a partnership with University of Münster (DE) and University Jaume I (ES) and 9 industry and municipalities partners.

The 2015 world's most impactful marketing paper: Henseler J, Ringle CM, Sarstedt M (2015) "A new criterion for assessing discriminant validity in variance-based structural equation modeling". J Acad Mark Sci, (the world's most impactful marketing paper according to the University of Florida – http:// bit.ly/2nmHnZN).

The 2016 "Grande Prémio Bial de Medicina" for high quality and outstanding results of "EpiReumaPt - the dream of a generation in a decade of work", a joint venture between NOVAIMS and NOVA Medical School;

Citation of Excellence 2017 by Emerald, as one of the most highly cited and highly influential papers published in 2014 in the areas of Business Management, Finance, Accounting, Economics and Marketing, to the paper: Oliveira, T., Thomas M. & Espadanal, M. (2014) "Assessing the determinants of cloud computing adoption: An analysis of the manufacturing and services sectors".

SCIENTIFIC AREAS

Data Science Geoinformatics Information Systems Data-Driven Marketing

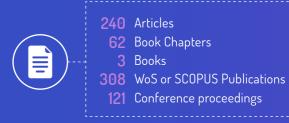
FACTS AND FIGURES

> STAFF



32 PhD HOLDERS 14 PhD STUDENTS

> MagIC OVER THE PAST 5 YEARS:





216 K€ FCT, I.P. National Funding 1.3 M€ Other National Funding 2.0 M€ International Funding

> SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

Oliveira, T., Thomas M. & Espadanal, M. (2014) "Assessing the determinants of cloud computing adoption: An analysis of the manufacturing and services sectors". Information & Management, 51, 497-510.

Henseler, J., Ringle, C. M., & Sarstedt, M. (2015). A new criterion for assessing discriminant validity in variance-based structural equation modeling. Journal of The Academy of Marketing Science, 43(1), 115-135.

M. Castelli, L. Vanneschi, and S. Silva. (2014). Prediction of the Unified Parkinson's Disease Rating Scale assessment using a genetic programming system with geometric semantic genetic operators". Expert Systems with Applications, Volume 41, Issue 10, Pages 4608-4616.

Popovic, A., Hackney, R., Coelho, P. S., & Jaklic, J. (2014). How information-sharing values influence the use of information systems: An investigation in the business intelligence systems context. The Journal of Strategic Information Systems, 23(4), 270-283.

Acedo, A., Painho, M., & Casteleyn, S. (2017). Place and city: Operationalizing sense of place and social capital in the urban context. Transactions in GIS, 21(3), 503-520.

MOSTMICRO

> NAME

MOLECULAR. STRUCTURAL AND CELLULAR MICROBIOLOGY UNIT

> ACRONYM MOSTMICRO-ITOB

> COORDINATOR Cláudio M. Soares

> CONTACTS, LOCATION

NOVA Institute of Chemical and Biological Technology António Xavier Av. da República 2780-157 Oeiras, Portugal +351 214 469 100

> WEBSITE

www.itgb.unl.pt/mostmicro







BRIEF DESCRIPTION

MOSTMICRO-ITQB is a research unit coordinated by the ITQB NOVA, NOVA University Lisbon, and funded by Portuguese Foundation for Science and Technology (FCT, I.P.). It aims to understand biological processes at the Molecular, Structural, Cellular and Population levels, with a focus on microbes important for human health, biotechnology and the environment.

MOSMICRO- ITQB carries out internationally competitive research along three thematic lines: 1) Understanding the molecular mechanisms of biological processes, 2) Anti-infective strategies against microbial pathogens and 3) Microbial factories for Health and Sustainability.

In 2018, MOSTMICRO-ITQB hosts 34 research Laboratories, organized in 10 Research Groups, plus the Science Communication, Funding & Innovation Group.

Researchers benefit from first-rate equipment, shared research facilities, and dedicated support services to carry out competitive research projects, including NMR, Mass Spec, Advanced microscopy and Bioimaging, Microbial Cell Production, Protein Purification & Characterization, N-terminal Sequencing, Biophysical Resources, Small Molecule Analysis, Elemental Analysis and High performance Computer Cluster. Support services include: Technical and Administrative, Communication, Science Funding (pre-award), Planning & Management (postaward), Tech Transfer, IT and Library.

RESEARCH HIGHLIGHTS

SHIKHI FACTORY

H2020-BIOTEC | PI: I. Rocha, C. Soares | Start 2019 | 8M€ We coordinate the research of a consortium on modular cell factories for the production of 100 compounds from the shikimate pathway.

TIMB3

H2020-Twinning | PI: M. Teixeira, S. Todorovic, R. Louro, L. Saraiva, I. Pereira | Start 2018 | 1M€

We coordinate a project linking Universities in Berlin and Florence to study Metals in Biology and Biocatalysis through Biospectroscopy.

CHRONOS ANTIBIOTICS

ERC Consolidator Grant IPI: Mariana Pinho | Start 2018 | 2.5M€ Pinho's lab will explore the bacterial cell cycle to re-sensitize antibiotic-resistant hacteria

ONFIDA

Portugal2020 | PI: R. Sá-Leão, M. Serrano |Start 2016 | 2.5M€ We coordinate a consortium involving several hospitals to prevent and control infectious diseases and antibiotic resistance.

MOSTMICRO-ITOB MOLECULAR, STRUCTURAL AND CELLULAR MICROBIOLOGY

SCIENTIFIC AREAS

Understanding the molecular mechanisms of biological

Anti-infective strategies against microbial pathogens Microbial factories for Health and Sustainability

FACTS AND FIGURES

> STAFF



107 PhD HOLDERS 61 PhD STUDENTS **35 COLLABORATORS**

> MOSTMICRO OVER THE PAST 5 YEARS:





IN INTERNATIONAL JOURNALS (WoS)

23.1M€ FCT, I.P. National Funding

1.2M€

3.1M€ International Funding

> SCIENTIFIC OUTPUT **5 MAIN PUBLICATIONS**

Monteiro, JM*, Pereira, AR*, Reichmann, NT, Saraiva, BM, Fernands, PB, Veiga, H, Tavares, AC, Santos, M, Ferreira, MT, Macário, V, VanNieuwenhze, MS, Filipe, SR and Pinho, MG. (2018). Peptidoglycan synthesis drives an FtsZ-treadmilling-independent step of cytokinesis. Nature, 554(7693), 528-532.

Margues, M C, Tapia, C, Gutierrez-Sanz, O, Ramos, A R, Keller, K L, Wall, J D, De Lacey, A L, Matias, P M, Pereira, I A C. (2017). The direct role of selenocysteine in NiFeSe hydrogenase maturation and catalysis. Nature Chemical Biology 13 (5), 544-550.

Monteiro, J. M., Fernandes, P. B., Vaz, F., Pereira, A. R., Tavares, A. C., Ferreira, M T, Pereira, P M, Veiga, H, Kuru, E, VanNieuwenhze, M S, Brun, Y V, Filipe, S R, Pinho, M G. (2015). Cell shape dynamics during the staphylococcal cell cycle. Nature Communications 6, 8055.

Santos, A A, Venceslau, S S, Grein, F, Leavitt, W D, Dahl, C, Johnston, D T, Pereira, I A C. (2015). A protein trisulfide couples dissimilatory sulfate reduction to energy conservation. Science 350 (6267), 1541-1545.

Nogly, P, Gushchin, I, Remeeva, A, Esteves, A M, Borges, N, Ma, P, Ishchenko, A, Grudinin, S, Round, E, Moraes, I, Borshchevskiy, V, Santos, H, Gordeliy, V, Archer, M. (2014). X-ray structure of a CDPalcohol phosphatidyltransferase membrane enzyme and insights into its catalytic mechanism. Nature Communications, 5, 4169.

NOVA INSTITUTE OF CHEMICAL AND BIOLOGICAL TECHNOLOGY ANTÓNIO XAVIEF

GREEN-IT

> NAME BIORESOURCES FOR SUSTAINABILITY

> ACRONYM GREEN-IT

> COORDINATOR

Maria Margarida Oliveira

> CONTACTS, LOCATION

NOVA Institute of Chemical and Biological Technology António Xavier Av. da República 2780-157 Oeiras, Portugal +351 214 469 250 / 66

> WEBSITE

www.itqb.unl.pt/green-it

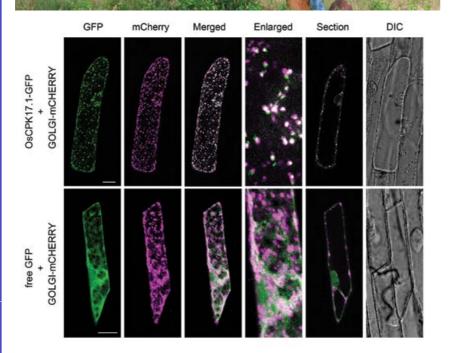


BRIEF DESCRIPTION

The "GREEN-IT Bioresources for Sustainability" Unit addresses the challenge of ensuring food security and adequate resources for a growing human population, by deciphering the basic mechanisms of plant-environment interactions and translating knowledge into innovation for plant breeding, while guaranteeing environmental sustainability.







GREEN-IT gathers researchers from five world-class institutes, ITQB NOVA, iBET, IGC and INIAV (all at Oeiras *Campus*), and INSA (in Lisbon), pursuing excellence in research, international cooperation, and education in plant sciences and agrobiotechnology applications. Together, we bring complementary expertise in plant nutrition and development, (a)biotic stress biology, plant biotechnology and breeding, integrated pest management, and product/food quality. We focus on crops relevant to the Mediterranean region and on the growing challenges that climate change poses to agricultural production.

To reach our goals we have implemented and manage essential infrastructures and high-throughput technologies, making them available to all GREEN-IT members. We develop tools and standards to analyze, store and manage experimental data. We train world-class plant scientists through our Plants4Life international PhD program, provide technical education to technicians and farmers, and attract students to plant research. We create and develop frameworks to facilitate research, to transfer knowledge into innovation, to promote value creation and to improve public perception of plant sciences to a broad spectrum of stakeholders.

GREEN-IT gathers in its five institutions a unique set of conditions, creating a privileged environment for research career development: 1) Researchers benefit from outstanding shared facilities and equipment, including Analytical, Mass Spectrometry, Bioimaging, Crystallography, NMR services and Greenhouses; 2) Support structures facilitate researchers' activities: Technical and Administrative Support, Communication Offices, Science Funding Offices (pre-award), Planning and Management Office (postaward), Tech Transfer Offices, IT helpdesk and development services, and Library; 3) Wireless and cable high speed internet access everywhere; 4) Conditions for networking and training are provided by regular workshops and seminar series, with in house and invited international speakers: 5) A community with different generations, from PhD students, Post-Docs to young and senior PIs, allows mentorship to be played at various levels; 6) Strong collaboration and diverse expertise contributing to a multidisciplinary atmosphere that makes GREEN-IT unique, further enlarged by the AGRO-TECH Campus (www.itqb.unl.pt/ agro-tech).

RESEARCH HIGHLIGHTS

SnRK1 AND NUTRIENT SIGNALING PATHWAYS - We are at the forefront of one of the most rapid growing fields in plant biology: growth and developmental regulation by nutrient signaling pathways

PHOTOSYNTHESIS REGULATION & BIOMASS - A modest improvement in plant photosynthesis can lead to major gains in biomass. We identified new regulatory processes of C4-photosynthesis at the transcript and post-translational levels.

CORK OAK GENOMICS - Cork is among the largest economic sectors in Portugal. We led a national consortium for sequencing the cork oak transcriptome, identified epigenetic profiles related to cork quality, investigate stress impact on suberin biosynthesis, and participate in whole genome sequencing.

QUANTITATIVE GENOMICS TOOLS FOR BREEDING – Society is increasingly concerned with food quality and environmental sustainability. We study the genetics of variation in complex nutritional and organoleptic quality traits in grain legumes and their interaction with biotic/abiotic stress resistance.

SCIENTIFIC AREAS

Plant Stress - sensing, response and management Healthier plant nutrition in food security/quality Germplasm diversity, selection and breeding Highthroughput, Technological & Bioinformatic platforms Education, outreach and technology transfer

FACTS AND FIGURES





66 PhD HOLDERS 45 PhD STUDENTS 30 COLLABORATORS

> GREEN-IT OVER THE PAST 5 YEARS:





ARTICLES IN INTERNATIONAL Wos JOURNALS

12.6M€ FCT, I.P. National Funding 27K€ Other National Funding

3.1M€ International Funding

SCIENTIFIC OUTPUT 5 MAIN PUBLICATIONS

CARVALHO et al., The Arabidopsis Sr45 splicing factor, a negative regulator of sugar signaling, modulates Snf1-related protein kinase 1 (Snrk1) stability **2016**, *Plant Cell* 28(8), 1910-1925.

INÁCIO et al., (**2017**), Differential DNA methylation patterns are related to phellogen origin and quality of *Quercus suber cork*. *PLoS ONE* 12(1): e0169018.

ALVES et al., (**2017**) Setting up decision-making tools towards a quality-oriented participatory maize breeding program. *Frontiers in Plant Science*, *8*, 2203.

CATRY et al., (**2017**). Presence and dynamics of ambrosia beetles and other xylophagous insects in a Mediterranean cork oak forest following fire. *Forest Ecology and Management*, 404: 45-54. IF (2017): 3.064.

ALMADANIM et al. (2017) Rice calcium-dependent protein kinase OsCPKI7 targets plasma membrane intrinsic protein and sucrosephosphate synthase and is required for a proper cold stress response. *Plant, Cell and Environment*, 40(7):1197-1213.

NOVA NATIONAL SCHOOL OF PUBLIC HEALTH

CISP

- > NAME PUBLIC HEALTH RESEARCH CENTRE
- > ACRONYM CISP

> COORDINATOR Julian Perelman

> CONTACTS, LOCATION

NOVA National School of Public Health Avenida Padre Cruz 1600-560 Lisboa, Portugal +351 217 512 100

> WEBSITE www.cisp.ensp.unl.pt









BRIEF DESCRIPTION

The Center for Public Health Research (CISP) / Public Health Research Center (PHRC) is the first research center recognized by the Portuguese Foundation for Science and Technology (FCT, I.P.) exclusively dedicated to Public Health. Its mission is to carry out, develop and promote public health research, in order to create knowledge that can be used to improve the population health.

Research in Public Health aims to contribute to a higher level of understanding population health and analyze the central role of health systems as well as its organizations. It also means guiding this understanding effort to the most emerging, current and complex public health challenges: aging, chronic diseases, endemic diseases, epidemics and pandemics, economic crises and unsustainable growth in health expenditures, inequities and inequities in health, environmental threats, technological development and innovative therapies, patient safety and quality of health care.

The CISP mission is inspired and motivated by these challenges, to which it responds not only through research, but also through establishing bridges with the society, and through the involvement in the design of health policies, according to best practices in Public Health at national and international level.

The CISP is based in the National School of Public Health (ENSP) of the NOVA University Lisbon, which is at the origin of its creation. At the image of ENSP, the CISP carry out multi and transdisciplinary research, in collaboration with a group of specialist providing results from diverse areas such as occupational health, health promotion, health management, health economics, epidemiology and statistics, law, and ethics. The CISP collaborates with several national and international health research centers and is open to all researchers who wish to contribute to the common goal of a high quality public health research recognized in Portugal and in the world.

RESEARCH HIGHLIGHTS

ELEVATE is a project funded by EU through the H2020 programme. This project focuses on the early detections of cervical cancer in hard-to-reach populations of women through portable and point-of-care HPV testing, expected to start on January 1st, 2019. The PHRC/CISP/ENSP integrates the ELEVATE consortium.

URBAN TB

From symptoms to diagnosis of Urban Tuberculosis, considering individual and contextual factors. What are the determinants and critical points of this delay's pathway? FCT, I.P. I 2018

PHRC/CISP funded 2 PhD Studentships

One of the Fellowships (SFRH/BD/133638/2017), funded by FCT, I.P., was attributed to Diogo André da Fonseca Pires, PhD student and member of PHRC/CISP.

CHRC

The path to a future PHRC is through integration with NOVA major Health Center, the COMPREHENSIVE HEALTH RESEARCH CENTER (CHRC), coordinated by NOVA Medical School.

SCIENTIFIC AREAS

Health services & systems Health policies Health determinants Occupational & environmental determinants

FACTS AND FIGURES



38 PhD HOLDERS 19 PhD STUDENTS

> PUBLICATIONS (2015-2017)



135	Articles
10	Book Chap

10 Books

> FUNDING OBTAINED (2013-2017)



202K€ FCT, I.P. National Funding 1.2M€ Other National Funding

ters

735K€ International Funding

SCIENTIFIC OUTPUT

5 MAIN PUBLICATIONS (2015-2018 PERIOD)

Perelman J, Alves J, Pfoertner TK, Moor I, Federico B, Kuipers MAG, Richter M, Rimpela A, Kunst AE, Lorant V. The association between personal income and smoking among adolescents: a study in six European cities. Addiction. 2017;112(12):2248-2256.

Nunes B, Silva S, Rodrigues A, Roquette R, Batista I, Rebelode-Andrade H. The 1918-1919 influenza pandemic in Portugal: a regional analysis of mortality impact. American Journal of Epidemiology. 2018.

Durkin CH, Leite F, Cordeiro J, Handa Y, Arakawa Y, Valderrama F, Way M. RhoD inhibits RhoC-ROCK-dependent cell contraction via PAK6. Developmental Cell. 2017;41 (3):315–329.

Gajski G, Ladeira C, Gerić M, Garaj-Vrhovac V, Viegas S. Genotoxicity assessment of a selected cytostatic drug mixture in human lymphocytes: a study based on concentrations relevant for occupational exposure. Environmental Research. 2018; 161:26-34.

Costa-Veiga A, Briz T, Nunes C. Unsuccessful treatment in pulmonary tuberculosis: factors and a consequent predictive model. European Journal of Public Health. 2018;28(2):352-358.

Collaborative LABORATORIES



> eCoLAB COLLABORATIVE LABORATORY FOR THE CIRCULAR ECONOMY

COORDINATOR	BLC3 Evolution – João Nunes	
CONSORTIUM	The NAVIGATOR Company	UM – University of Minho
	RAIZ – Forest and Paper Research Institute	NOVA University Lisbon
	TMG	UP – University of Porto
	Lipor - Intermunicipal Waste Management Service of	IPB - Polytechnic Institute of Bragança
	Greater Porto	IPC – Polytechnic Institute of Coimbra
	Mota-Engil	iBET – Institute for Experimental Biology and Technology
	ISQ – Welding and Quality Institute	Smart Waste
	LNEG – National Laboratory of Energy and Geology	AIFF - Association for the Competitiveness of the
	UA –University of Aveiro	Forest Sector
	UC –University of Coimbra	PTPC Portuguese Construction Technology Platform
	UCP -The Catholic University of Portugal	COTEC- Business Association for Innovation

> CoLAB4Food COLLABORATIVE LABORATORY FOR INNOVATION IN THE FOOD INDUSTRY

COORDINATOR	University of Minho - Professor José António Teixeira	
CONSORTIUM	Portugal Foods / Portuguese Agrofood Cluster	UTAD - University of Trás-os-Montes and Alto Douro
	National Institute for Agrarian and Veterinarian Research	Frulact
	REQUIMTE - Rede de Química e Tecnologia - Associação	Compal
	UP - University of Porto	Primor
	UA - University of Aveiro	Sensetest
	University of Lisbon - Higher Institute of Agronomy ISA	SuperBock Group
	UCP - The Catholic University of Portugal	Mendes Gonçalves

> ProChild CoLAB AGAINST CHILD POVERTY AND SOCIAL EXCLUSION

COORDINATOR	University of Minho – Professor Isabel Soares	
CONSORTIUM	NOVA University Lisbon	Irmãos Rodrigues - Confecções, S.A.
	UP - University of Porto	CNPDPCJ - Comissão Nacional de Promoção dos
	CES - Centre for Social Studies	Direitos e Proteção das Crianças e Jovens
	FP-UL- Faculty of Psychology, University of Lisbon	City Council of Guimarães
	UCP - The Catholic University of Portugal	Vasco Vieira de Almeida Foundation
	UA – University of Aveiro	SONAE
	Pedrosa & Rodrigues, S.A.	DST Group

> InnovPlantProtect INNOVATIVE BIO-BASED SOLUTIONS FOR CROP PROTECTION

COORDINATOR	NOVA University Lisbon - Professor Maria Margarida	Oliveira
CONSORTIUM	INIAV – National Institute for Agrarian and Veterinarian Research	ANPOC – National Association of Cereal, Protein Crop and Oil Seed/ Fruit Producers
	Syngenta Portugal – Crop Protection	CEBAL - Centre of Agronomic and Agro-Industrial
	Bayer CropScience	Biotechnology of Alentejo
	FNOP – National Federation of Fruits and Vegetables	FERTIPRADO
	Producers Organizations	City Council of Elvas
	ANPROMIS – National Association of Corn and Sorghum Producers	Casa do Arroz

> ALMASCIENCE CELLULOSE FOR SUSTAINABLE SMART APPLICATIONS

COORDINATOR	INCM – Dr Carlos Jorge Silva
CONSORTIUM	The NAVIGATOR Company Clara Saúde City Council of Almada NOVA University Lisbon

> ProBiorefinery COLLABORATIVE LABORATORY FOR RESEARCH AND INNOVATION ON BIOREFINERIES

COORDINATOR	LNEG – Maria Teresa Leão
CONSORTIUM	IST – Instituto Superior Técnico
	UM – University of Minho
	NOVA University Lisbon
	UP – University of Porto
	UA – University of Aveiro
	FCUL – Faculty of Sciences, University of Lisbo
	IPP – Polytechnic Institute of Portalegre
	RAIZ – Forest and Paper Research Institute

> Value4Health.CoLAB PORTUGUESE VALUE-BASED HEALTHCARE CoLAB

COORDINATOR	NOVA University Lisbon – Professor José Fra
CONSORTIUM	José de Mello Saúde Fraunhofer Portugal

> SFCoLAB SMART FARM CoLAB

COORDINATOR	NOVA University Lisbon - Professor Fernand
CONSORTIUM	FCUL - Faculty of Sciences, University of Lisbo IPLeiria - Polytechnic Institute of Leiria ISCTE - University Institute of Lisbon INIAV - National Institute for Agrarian and Veterinarian Research

> NET4C02 NET4C02 - NETwork FOR A SUSTAINABLE C02 ECONOMY

COORDINATOR	University of Porto IFEUP - Professor José C
CONSORTIUM	Galp Energia, SA
	IST - Instituto Superior Técnico
	REQUIMTE - Rede de Química e Tecnologia - Asso
	REQUINTE - Rede de Química e Techologia - A

> VORTEX CoLAB IN CYBER-PHYSICAL AND CYBER-SECURITY SYSTEMS

COORDINATOR	ALTRAN - Rodrigo Maia (CTO)
CONSORTIUM	CISTER – ISEP HASLAB – INESC-TEC

RAIZ – Forest and Paper Research Institute
CENIMAT - Institute for Nanostructures, Nanomodeling and Nanofabrication
UNINOVA – Institute for the Development of New Tecnologies

	A4F - Algafuel, S.A.
	BIOGOLD - Biogold Produtora de Gás Combustível, S.A.
	BLC3 Evolution
	TRATOLIXO - Tratamento de Resíduos Sólidos, E.I.M., S.A
	SYSADVANCE - Sistemas de Engenharia S.A.
on	PETRÓLEOS DE PORTUGAL - PETROGAL S.A.
	Solvay Portugal- Produtos Quimicos S.A.

Vodafone

do Lidon	
on	City Council of Torres Vedras
	COTEC- Business Association for Innovation
	Geo2I, Engeneering Solutions, Lda
	8 Horticulture, viticulture and fruticulture companies

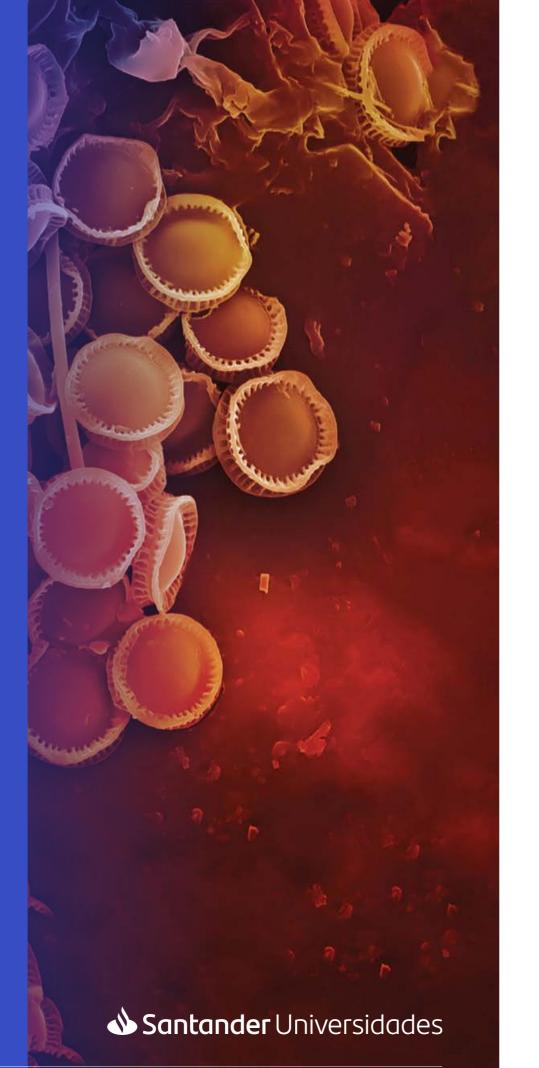
Carlos Lopes	
INL - International Iberian Nanotechnology Laboratory	

ssociação

Change Partners, SCR, AS

NOVA University Lisbon WILDTRIUMPHS

COLLABORATIVE RESEARCH AWARD SANTANDER/ NOVA





8 COLLABORATIVE RESEARCH AWARD SANTANDER - NOVA

This year, NOVA University Lisbon awarded, in collaboration with Banco Santander, the Santander-NOVA Collaborative Research Award, currently in its 11th edition. This award aims to distinguish research projects developed by young researchers at NOVA, involving at least two different

This award aims to distinguish research projects developed by young researchers at NOVA, involving at least two different academic units of NOVA. This distinction is awarded annually, in the areas of Life Sciences, Exact Sciences and Engineering and Social Sciences and Humanities.

"Stress-induced neuroinflammation: mechanisms and implications for decision-making and performance" was the winning project of the 11th edition of Collaborative Research Award Santander Totta/NOVA University Lisbon, in the area of Life Sciences. Researcher Raffaela Gozzelino (NOVA Medical School I Faculdade de Ciências Médicas), in collaboration with researchers Ana Margarida Grenho Ferreira (NOVA School of Sciences and Humanities) and Pedro Neves (NOVA School of Business and Economics), are the authors of the project.

The project seeks to determine how neurological processes

The purpose now is to study the phenomenon in the human being, integrating biological and psychological processes to determine the way how the social dimension influences those decision making processes, in order to get a complete picture of the way people deal with stress. According to researcher Raffaela Gozzelino, *«this is one of the first studies that manages to integrate all aspects. Santander Totta/NOVA Collaborative Award favours the continuation of this study to enhance the results we already have and to start working on the social aspect».*

The award was granted by the **Rector of NOVA**, **Professor João Sàágua**, and the **Executive President of Santander**, **Dr. António Vieira Monteiro**, in a ceremony within the first edition of NOVA **Science Day**.

NOVA Science Day 2018

9 NOVA SCIENCE DAY 2018 JOINING FORCES FOR COMPREHENSIVE & BETTER KNOWLEDGE

In September 2018, NOVA took a step further towards the growth of its research network by organizing the first NOVA Science Day. This event is a milestone for the University since it stood out as the first action to bring together not only the schools of NOVA and its research centres, but also to engage society and citizens with the institution's work. As the Rector stressed out, this event naturally derives from NOVA's goal to contribute with collaborative and interdisciplinary research to the production of cutting edge knowledge, essential to support initiatives that allow achieving some of the sustainable development goals set out in the United Nations Agenda 2030.

The full-day event, which gathered more than 350 participants among Professors, researchers, PhD students and members of society, consisted of a comprehensive program that provided a very complete outlook of NOVA's research work. In the morning, the Minister of Science, Technology and Higher Education, Professor Manuel Heitor, and the European Commission's Director General for Research and Innovation, Jean Eric Paquet, delivered the keynote speeches in which they stressed out the importance of such initiatives on a local, regional and global level. The afternoon on its turn, consisted of a session of flash presentations to promote NOVA schools, institutes and strategic platforms, as well as a presentation of posters by the 41 research units and Collaborative Laboratories (CoLABs).

The event was also the stage for the announcement and award ceremony of the Santander - NOVA Collaborative Research Award 2017/2018 in the area of Life Sciences to a project about the influence of stress on decision making.

NOVA Science Day was the first step of a journey NOVA is taking towards the development of a culture of science in which research groups join forces to face mutual challenges and produce knowledge that is beneficial to society.

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Now is the time to come together. Any city divided against itself will not remain. This is the motto of NOVA. And it rings as true now as it did 45 years ago. Now is the time for us to unite and push for the future of science and innovation in Europe.

Jean-Eric Paquet

EC Director General for Research and Innovatio NOVA Science Day 2018









NANIGATOR

Investing in research and development means bringing the future closer. At The Navigator Company, R&D is entrusted to RAIZ, the Company institute devoted to developing know-how and have involved building cooperation between industry and academe.

A series of initiatives were approved in 2017 for research on a networking basis, rewarding the expectations of researchers and technical staff who will now benefit from closer ties between RAIZ and Portuguese universities and other organisations in the national and international scientific and technological systems.

The funding application for the Inpactus project was approved towards the end of the year and the news was greeted with excitement by RAIZ and its partners in current projects.

The new project is promoted by Navigator and RAIZ, and involves cooperation over four years with a long list of partners, including the Universities of Coimbra, Aveiro, Beira Interior and Minho, Universidade Nova de Lisboa, Instituto Superior Técnico, Fraunhofer Institute (Germa-ny), RISE (Sweden) and the Iberian Internal Nanotechnology Laboratory (Braga). Research will be conducted on a range of fronts, all with a view to creating innovative and distinctive products from eucalyptus fibre, in pulp and printing and writing paper, as well as in tissue and new bioproducts obtained from biomass and wood.

The research process has already yielded a number of advances, in particular in production of pulp with superior mechanical strength and better environmental performance, production of tissue with a high eucalyptus fibre content, production of paper with improved printability and new functional coatings, promotion of bioactive and nutraceutical products, as well as biofuels and biocomposites from biomass.

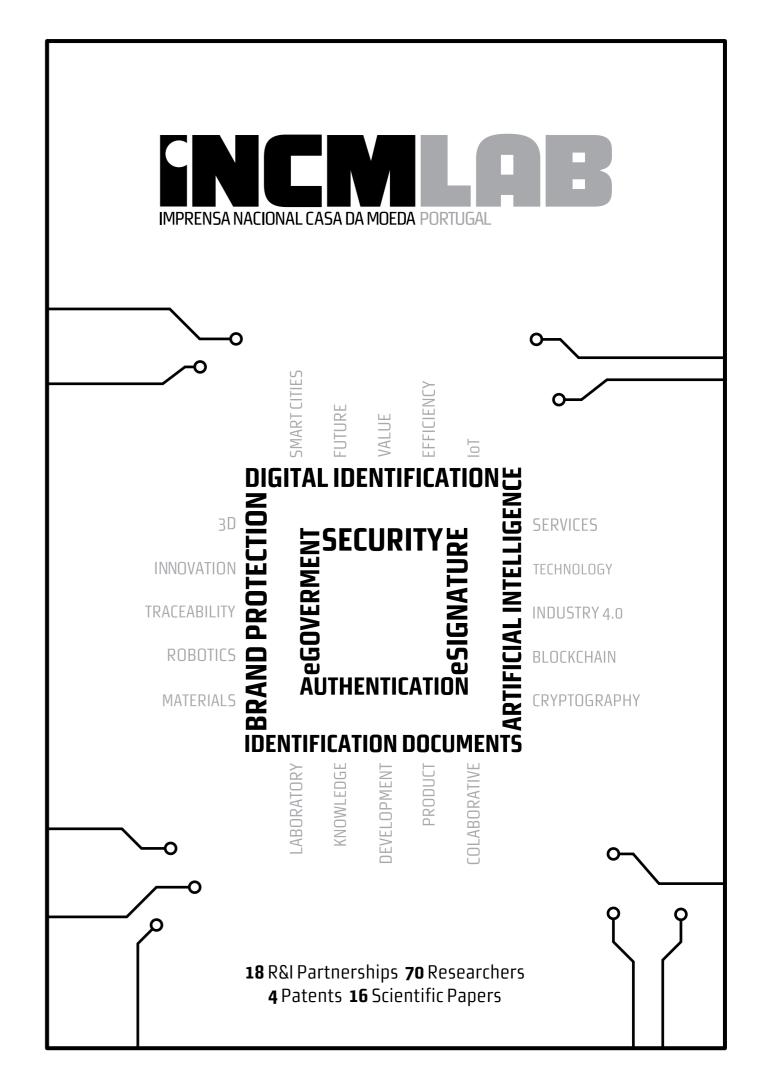
The programme will also highlight the added value offered by biomass and wood, through biorefineries, the fourth main focus area, accounting for 50% of the funding. This will look into producing 'families' of products based on wood and biomass, geared to environmental sustainability, a challenge for which Navigator's pulp and paper mills are well positioned.

The Forest and Paper Research Institute it engages in research aiming to ensure successful forestry operations, for instance by developing scientific knowledge applied to genetic improvement of eucalyptus and equipping the Company with the tools to combat forest pests. RAIZ also provides crucial support for industrial operations, as a technological consultant helping to improve production processes for pulp and paper. In keeping with its concern for effective use of resources, it also contributes to the excellent environmental performance achieved by the Company's plants.

RAIZ is also engaged developing forest inventory tools. The Navigator Company's forest holdings represent only a fraction of Portugal's woodlands, and it is therefore crucial that resources be more widely applied and know-how transferred to other forest landowners, enabling them to manage their holdings to their best advantage. Complementing this, the institute is concerned to share good forestry practices with others interested in these issues, seeking to expand its own knowledge in these areas.

Other important aspects of RAIZ' work have been its ongoing support for the process of implementing the Company's forestry project in Mozambique, which has faced specific challenges related to the geographical location, and the search for suitable land in Spain.

In response to the new dynamic created by the Inpactus project and the need to reequip the institute for the research work involved, the institute's buildings, at Quinta de São Francisco, Eixo, in the municipality of Aveiro, have been renovated and refitted, for the first time in three decades. The estate is open to visitors, who come to see the collection of eucalyptus and other trees, many of them over a hundred years old, as well as the wealth of wildlife.



NOVA SCIENCE 2018





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