



School of Medicine

ANNUAL REPORT

2019–2020

ANNEX VII – ICVS REPORT 2019

The Life and Health Sciences Research Institute (ICVS) was established in 2003 to develop biomedical research within the School of Medicine of the University of Minho. Over the last decade, ICVS has developed synergies with several partners with complementary expertise, namely the 3B's Research Group ensuing the establishment of the PT Government ICVS/3B's - Associate Laboratory, and local healthcare providers to launch the Clinical Academic Centre – Braga Association (2CA-Braga) devoted to performing clinical research.

ICVS is a multidisciplinary unit that currently brings together scientists, engineers and clinicians in a unique scientific and technological platform over 6000 m² benefiting from research expertise in different fields such as bioimaging, cell and molecular biology, deep learning and computer science, electrophysiology, epidemiology and statistics, functional MRI, medical electronics, microbiology ABSL2/3, motor and cognitive animal behavior, oncobiology and surgical endoscopy. Scientific projects are developed under four Research Domains: Microbiology & Infection, Neurosciences, Population Health and Surgical Sciences.

ICVS develops projects in national and international consortia, providing experience and training to young researchers and welcomes foreign students and researchers, as well as developing initiatives to foster international institutional collaborations, as those recently established with the International Iberian Nanotechnology Laboratory (INL) as well as the Centro de Investigaciones Biomédicas (CINBIO).

Since its launching, ICVS has been consistently graded “excellent” by FCT (Fundação para a Ciência e a Tecnologia) in both evaluation processes of 2002 and 2007, and again graded “excellent” as PT Government ICVS/3B's - Associate Laboratory in 2013. Final assessment regarding the 2017 evaluation process is still under revision.

Along with its several Spin-offs, ICVS aims to contribute as a key stakeholder for the upholding of a competitive Cluster in Biomedical Science, Technology and Healthcare, steered by the School of Medicine, including the recently created Digital Medical center P5 and B.ACIS. Aligned with this vision, ICVS aspires to boost its complete research pipeline to create scientific knowledge and value, producing Research Outputs that improve Clinical Outcomes.

Research Domains

MIRD Description

The Microbiology and Infection Research Domain (MIRD) aims to promote basic, translational, and clinical research with the goal of identifying novel prognostic, diagnostic and therapeutic targets and developing personalized medical interventions for infectious diseases. The global burden of infectious diseases, still a leading cause of death and disability worldwide, is magnified by persistent infections, epidemics of new and old infectious diseases (one emerging example being the recent global pandemic of COVID-19), the expanding number of immunocompromised patients and the increasing number of hospital-acquired infections. The MIRD is committed to tackle these challenges by pursuing two main complementary strategies: i) basic research to understand biological mechanisms and to identify novel targets for prognostics, diagnostics and therapy, and ii) translational research that explores relevant biological processes and assess their clinical applicability in patients.

Research strategies within the MIRD range from systems biology approaches to consolidated cellular and animal models, and studies in patients at-risk or suffering from infection, to understand the molecular and cellular mechanisms that orchestrate the host-pathogen interaction and define the immune response and the outcome of infection. The dissection of the virulence traits and the determinants of drug resistance, as well as the evolutionary properties of the pathogens, and their dynamic relationships with the host and the environment is driving significant advances in our understanding of the pathogenesis of infectious diseases. By incorporating this information within a framework comprising distinct layers of inter-individual human variation (genetic, epigenetic, metabolic, and at the level of the microbiome), MIRD has harnessed the capacity to deliver innovative and integrated personalized diagnostic and therapeutic approaches for infectious diseases, which include patient stratification approaches based on host genomics, and novel strategies for the design of vaccines and immunotherapeutics, both for common and neglected infectious diseases.

NERD Description

The Neurosciences Research Domain (NeRD) aims to understand neural structure and function in normal conditions and disease, using a multidisciplinary and integrative approach, from fundamental to clinical studies. Our scientists strive to comprehend how complex neural circuits work, how these are shaped and reshaped during life by different environmental factors and how this drives behaviour. Also, we are focused on understanding the neurobiological mechanisms implicated in several neurodevelopmental and neurodegenerative disorders, as well as in evaluating the interplay between the nervous and the immune systems.

Our strategy is to link fundamental and clinical research to understand disease mechanisms better and identify novel therapeutic opportunities. To achieve this, we benefit from a vast logistic infrastructure (labs and equipment) and a team of scientists with a broad spectrum of backgrounds (biochemists, molecular biologists, statisticians, mathematicians, biomedical and electronic engineers, psychologists, veterinaries, pharmacists and MDs from neurology, neuroradiology, psychiatry, internal medicine, endocrinology, surgery, neonatology, paediatrics and medical genetics), thus allowing a multimodal approach to the research questions under study. The team works together in a variety of projects that address the neurobiological basis of behaviour (genes, cells and circuits), neurodevelopment, neuroimmunology, neurodegeneration, neural regeneration and novel therapeutic approaches, benefiting from a fully equipped animal behaviour facility, optogenetics and electrophysiology core, biophotonics, fMRI and neurofeedback.

The NeRD provides a vibrant environment for training and career development for its researchers, relying on the continuous effort to find the best compromise between individual interests and independence, and collaborative work. Importantly, the close interplay with the Clinical Academic Center (2CA-Braga) allows bridging, within the same infrastructure, molecular, cellular and preclinical work to clinical applications. In this way, we hope to take part in the fantastic challenge of contributing to a better understanding of the Nervous System in health and disease to improve its functioning.

SSRD Description

The Surgical Sciences Research Domain (SSRD) is composed by an interdisciplinary team that includes scientists from the Biology/Biochemistry fields, Biomedical engineers and Medical doctors of different specialties.

The main scientific aims of the Surgical Sciences Research Domain (SSRD) are to: i) understand the mechanisms that regulate development and differentiation of embryonic cells/organs; ii) identify new risk factors for cancer, molecular markers of diagnostic, prognostic and response to cancer therapy; iii) explore novel surgical techniques to decrease aggressiveness of current interventions; iv) develop technically innovative solutions to optimize surgical procedures; v) provide basic, translational and surgical training.

A better understanding of the pathophysiology of diseases is crucial to uncover novel and safer therapeutic strategies for congenital and malignant diseases. Several of the mechanisms involved in embryo development are common to disease conditions and injury repair. Thus, the SSRD studies the mechanisms underlying organ development, with special emphasis on macrophages and neuroendocrine cells. Cancer, as a multifactorial disease, also uses most of the embryonic mechanisms to growth. Aiming to offer new personalized therapies to cancer patients, the SSRD

screens for new biomarkers of risk to develop cancer, and novel markers of diagnostic and response to cancer therapy.

In surgery, repairing (congenital disorders) and ablative/resection (malignant disorders) are the most common procedures. With the goal to minimize surgical aggression, the team explores new scarless interventions through Natural Orifice Transluminal Endoscopic Surgery (N.O.T.E.S.), as alternative to current methodologies. Since surgery is increasingly dependent on imaging, using 3D images and endoscopy, the team designs and develops innovative technical solutions (personalized prosthesis and surgical plans) to optimize clinical procedures. Some of these translational discoveries are being transferred to our UM Spin-off (iSurgical3D, Lda.) that is already selling medical materials in Europe. Additionally, the SSRD offers an extensive international post-graduation program, from basic and translational science to minimally invasive surgery (engaging over 500 surgeons per year).

PHRD Description

The Population Health Research Domain (PopHealth) was established in 2018 to foster research and training in Epidemiology, Public Health and related areas. Aligned with the School of Medicine's goals, its mission is to contribute to improve health promotion and healthcare delivery to regional and national populations.

PopHealth's research is supported by a multidisciplinary team with expertise in psychology, educational sciences, nutrition, epidemiology, immunology, endocrinology, digital medicine, statistics, mathematical modelling and economics. These researchers work in close cooperation with other ICVS Research Domains, the School of Medicine, affiliated healthcare providers and the Clinical Academic Center.

Research in the PopHealth domain targets two main areas: specific chronic disorders and health promotion. Projects on chronic disorders address the assessment/epidemiology and management of non-communicable disorders (such as asthma, obesity, hypertension, chronic pain, multiple sclerosis, diabetes and neoplasia), and infectious diseases (such as HIV/AIDS and tuberculosis). Projects on health promotion address determinants of healthy ageing, strategies to cope with chronic stress in the working environment, and the impact of nutritional supplements in fetal and newborn development.

The PopHealth Research Domain is expected to generate knowledge and tools (educational, informatics, technological) that health authorities and stakeholders may use to improve health-related policies.

ICVS Collaboration Networks

Building robust national and international collaborative networks is a major pillar underpinning the ICVS research strategy. Pursuing this challenge, during 2019, ICVS promoted a survey to characterize the previously established ICVS research collaborations. The results indicated that the ICVS top 5 international collaborations are with institutions in USA, France, Brazil, Spain and Sweden. Concerning national collaborations, the top 5 institutional ICVS partners are IPO (*Instituto Português de Oncologia*) Porto, CNC (Center for Neurosciences and Cell Biology) and iCBR (Institute for Clinical and Biomedical Research) from Coimbra, INL (International Iberian Nanotechnology Laboratory) Braga and different institutes from University of Porto. Based on these indicators, ICVS aims to improve the effectiveness of the research networks by promoting regular evaluation of scientific collaborations and supporting mobility opportunities for graduate students. This ICVS goal involves not only the promotion but also the consolidation and expansion of strategic and effective research collaborations based on complementarity and excellence in research. In this context, during 2019, the INL and the CINBIO (Centro de Investigaciones Biomédicas - Vigo, Spain) have been the focus of these initiatives. The organization of “Hackathon” initiatives with INL have resulted in 6 collaborative R&D projects with a total budget of 1 379 696,40 euros, funding obtained from national and international competitive calls. Regarding CINBIO, the 1st joined initiative: “ICVS – CINBIO 1st Meeting – Fostering bridges across the border”, took place at ICVS, 15th October 2019, with a total of 43 participants from both institutions resulting in the identification of more than 12 potential collaborative interactions between participants. Another relevant component of the ICVS collaborative networks is the participation, as the coordinator of the Biology department, in the consortium PT-OPENSREEN and its application to become a member of the *Roteiro Nacional de Infraestruturas de Investigação de interesse estratégico* (RNIE) as well as of the EU-OPENSREEN.

2019

Summary of Major Achievements

The ICVS community kept motivated to share their skills and expertise. Like this, the ICVS members definitively contributed to organize 40 two-three days courses, most of them hands-on, with half of which clinically oriented. In this trend of expertise-based activities, 11 of our researchers delivered scientific specialized services and/or were involved in consulting activities.

Eighteen students concluded their MSc thesis, whereas 13 concluded their PhD thesis at ICVS. Additionally, we welcomed 16 visiting trainees/researchers at our facilities from 10 countries,

Our researchers published 290 manuscripts in peer-reviewed journals (66% in quartile 1) with a mean impact factor of 4.4, with eight papers published in journals with an impact factor greater than 10. Moreover, our researchers performed 226 scientific communications in congresses, half of them in international meetings.

Emphasizing the quality of the research developed at our Institute, we currently run 90 research projects with 18 Million euros; from these, in 2019, 13 I&D projects started (10 international), which represented over 2 Million Euros recruited (with 72% from abroad) for research activities at ICVS.

Nine of our researchers, individually or as a team, received scientific prizes/awards, with two researchers being distinguished with the *L'Oreal Portugal Award for Women in Science*, and the *Nature Research Awards for Driving Global Impact 2019* (Runner up).

The ICVS researchers gave 100 talks and/or performed live procedures by invitation (40% in international Events/Universities), whereas 15 of contributed for relevant Editorial activities (Editor-in-Chief, Associate Editor) of international peer reviewed periodicals.

In 2019, several translation and entrepreneurship initiatives were carried out and merits to be highlighted the first international patent (WO/2019/198061) sold, namely to KARL STORZ SE & CO. KG, for commercialization of the technology KidneyNav that will allow to perform ureteroscopy-assisted percutaneous kidney access in an easier, precise and faster way without exposure to radiation.

Lastly, ICVS researchers were strongly involved in the organization of several international congresses, including the 6th Annual ISCaM Meeting 2019, the 1st Minho Meeting on Spinal Cord Injury, and the Satellite Meeting of GLIA 2019.

Full Report

1 - Expertise-based Services

A. Specialized services and/or contracts with national/international entities (ongoing in 2019):

- 1) Almeida, A. | TECNIMEDE - Sociedade Técnico Medicinal, SA | Portugal | Pharmacological evaluation of the effect of pirlindole and its enantiomers in the control of pain and comorbid emotional impairments in experimental diabetes;
- 2) Bessa, J. | TECNIMEDE - Sociedade Técnico Medicinal, SA | Portugal | Estudo das propriedades antidepressivas do Pirlindol num modelo animal de Chronic Mild Stress - Fase II;
- 3) Cerqueira, J. | Biogen Portugal | Portugal | Impact of dimethyl fumarate on cognition: animal studies;
- 4) Correia-Pinto, J. | KARL STORZ | Germany | Sponsoring Agreement Regarding the Support of an Event -Training Center;
- 5) Osório, N. | Gilead Sciences, Lda | Portugal | Impacto da diversidade genética do VIH-1 na imunodeciência;
- 6) Silva, R. | Gilead Sciences, Lda | Portugal | Relação entre as células T reguladoras e a hiperactivação imunológica que está associada às co-morbilidade dos doentes com infeção crónica por VIH;

B. Consulting activities (contracted in 2019):

- 7) Cerqueira, J. | Vieira de Almeida and Associates | Consultancy on patent litigation | Not able to disclose;
- 8) Cerqueira, J. | Biogen | Consultancy on Virtual patient scenarios for the training of neurologists;
- 9) Cerqueira, J. | Sanofi-Genzyme | Consultancy on multiple sclerosis treatment;
- 10) Cerqueira, J. | Merck | Consultancy on multiple sclerosis management;
- 11) Maciel, P. | Bn'ML | Consultant services

C. Organization of postgraduate courses (2019):

- 1) Agostinho Carvalho; Gil Castro & Sandra Costa | The Frontiers Of Research In Ild: May 10th, 2019 | <https://www.med.uminho.pt/en/ild-seminar;>

- 2) Bruno Costa & Nuno Osório | Bioinformatics In Health Sciences: November 11-29th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/bioinf;>
- 3) Bruno Costa; Fátima Baltazar; Rute Moura & Sandra Costa | Fundamentals In Genetics, Development And Neoplasia: September 9-27th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/fgdn;>
- 4) Bruno Costa; Luísa Pinto; Patrícia Patrício & Joana Palha | Being A Bio-Entrepreneur: March 4-22th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/bio-entrepreneur;>
- 5) Carla Rolanda & Jorge Correia-Pinto | Advanced Emr And Esd Workshop: September 12-13th, 2019 | <https://www.med.uminho.pt/en/mis-courses/emr-esd;>
- 6) Carla Rolanda | Advanced Endoscopic Techniques: November 6th, 2019 | <https://www.sped.pt/index.php/escola/tecnicas-avancadas-de-endoscopia;>
- 7) Carla Rolanda | Basic Endoscopic Techniques: November 5th, 2019 | <https://www.sped.pt/index.php/escola/tecnicas-basicas-de-endoscopia;>
- 8) Cecília Leão; João Bessa; Nadine Santos & Patrícia Monteiro | Training In Research Integrity And Bioethics: May 20-24th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/trIBE;>
- 9) Claudia Nobrega & Belém Sampaio-Marques + Co-Organizadores Margarida Correia Neves & Paula Ludovico | Cell Functional And Phenotypical Analysis: February 11-22th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/cytometry;>
- 10) Egídio Torrado; Jorge Pedrosa & Agostinho Carvalho | Fundamentals In Immunology And Infection: October 21 - November 8th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/fii;>
- 11) Estevão Lima & Jorge Correia-Pinto | Robotic Surgery And 3d Advanced Laparoscopic Surgery: September 4-7th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/robotic-surgery;>
- 12) Fernanda Marques, Hugo Almeida & Tiago Gil Oliveira | Fundamentals In Neuroscience: September 30 - October 18th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/fin;>
- 13) Hélder Ferreira & Cristina Nogueira Silva | Gynecological Laparoscopic Surgery: May 23-25th, 2019 | <https://www.med.uminho.pt/en/mis-courses/gynecology;>

- 14) Henedina Antunes; Carla Rolanda & Jorge Correia Pinto | Pediatric Endoscopy: September 19-21th, 2019 | <https://www.med.uminho.pt/en/mis-courses/pedgas>;
- 15) Jaime Correia de Sousa; Luís Figueiredo & Pedro Teixeira | Epidemiology: March 11 - April 26th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/epidemiology>;
- 16) Jaime Correia de Sousa; Patrício Costa & Pedro Teixeira | Evidence-Based Practice In Health Research And Decision-Making: May 3 - June 29th, 2019 | <https://www.med.uminho.pt/pt/pos-graduacao/cursos/evidencia>;
- 17) João Bessa & Pedro Morgado | Applied Clinical Psychopharmacology: July 8-12th, 2019 | <https://www.med.uminho.pt/en/Post-Graduation/courses/psychopharmacology>;
- 18) João Cerqueira | Intervention Approaches For The Treatment Of Chronic Pain: February 8-9th, 2019 | https://www.med.uminho.pt/pt/Pos-Graduacao/cursos/Documents/ChronicPain2019_flyer.pdf;
- 19) João Nuno Torres; Vera Trocado; Paulo Mota & Jorge Correia-Pinto | Basic Laparoscopy For Residents: June 3-4th, 2019 | <https://www.med.uminho.pt/en/mis-courses/residents>;
- 20) João Nuno Torres; Vera Trocado; Paulo Mota & Jorge Correia-Pinto | Basic Laparoscopy For Residents: November 8-9th, 2019 | <https://www.med.uminho.pt/en/mis-courses/residents>;
- 21) Jorge Correia-Pinto & Catarina Barroso | Fetal And Neonatal Endoscopic Surgery: September 25-27th, 2019 | <https://www.med.uminho.pt/en/mis-courses/fetal-neonatal>;
- 22) José Cotter & Bruno Rosa | Capsule Endoscopy Training Program: October 2-4th, 2019 | <https://www.med.uminho.pt/en/Post-Graduation/courses/capsule-endoscopy>;
- 23) José Pêgo | Comprehensive Ultrasound Training Program - 1st Ed - All year, 2019 | <https://www.med.uminho.pt/en/Post-Graduation/CUTP>;
- 24) José Pêgo | InAnestesia - Formação Avançada 10th Ed - May 16-17 2019;
- 25) José Pêgo | InAnestesia - Introdução à Anestesiologia Clínica 9th Ed - Jan7-11, 2019 <https://www.med.uminho.pt/pt/layouts/15/uminho.portaisuei.ui/pages/eventsdetail.aspx?id=53949>;
- 26) Leite-Almeida & Ioannis Sotiropoulos | Pathogenesis Of Neurodegenerative Diseases: April 1-5th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/neurodegeneration>;

- 27) Magda Castelhana-Carlos, Alice Miranda & Margarida Correia-Neves | Laboratory Animal Science: January 28 - February 8th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/las>;
- 28) Manuel João Costa | Research Methodologies: December 2-20th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/research-methodologies>;
- 29) Nuno Sousa | Sulci, Gyri, Ventricles And Dissecting Fibers: November 18-22th, 2019 | <https://www.med.uminho.pt/en/neurosurgery-courses>;
- 30) Nuno Sousa; Pedro Cunha & Jorge Cotter | Arterial Stiffness And Early Vascular Aging: November 27-29th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/ASEVA>;
- 31) Patricia Monteiro & Hugo Leite-Almeida | Advanced Neurophysiology And Behavior: May 6-10th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/anb>;
- 32) Patricio Costa | Biostatistics In Health Sciences: January 7-25th, 2019 | <https://www.med.uminho.pt/en/post-graduation/courses/biostat>;
- 33) Pedro Morgado & João Bessa | Psychiatry And Mental Health: May 17 - June 1st, 2019 | <https://www.med.uminho.pt/pt/pos-graduacao/cursos/saude-mental>;
- 34) Pedro Morgado | Transformational Leadership In Healthcare: March 1 - May 4th, 2019 | <https://www.med.uminho.pt/pt/cursos/lideranca>;
- 35) Pedro Morgado; João Cerqueira & Vítor Hugo Pereira | Intensive Communication Skills Course: November 7-9th, 2019 | <https://www.med.uminho.pt/pt/Pos-Graduacao/cursos/comunicacao>;
- 36) Rui Duarte & Pedro Varanda | Minimally Invasive Spine Surgery: November 15-16th, 2019 | <https://www.med.uminho.pt/en/mis-courses/spine>;
- 37) Rui Duarte | Fundamentals In Arthroscopy: June 13-14th, 2019 | <https://www.med.uminho.pt/en/mis-courses/arthroscopy>;
- 38) Rui Miguelote | Evaluation And Treatment Of Infertile Couple In Primary Care: May 13th, 2019 | <https://www.med.uminho.pt/pt/pos-graduacao/cursos/infertilidade-MGF>;
- 39) Rui Miguelote | Evaluation and Treatment Of Infertile Couple: May 17-18th, 2019 | <https://www.med.uminho.pt/pt/pos-graduacao/cursos/infertilidade>;

40) Sara Gomes | Advanced Techniques For Airway Management: September 16-18th, 2019 | <https://www.atamcourse.com/>.

D. Management/Clinical Governance of Other Entities, for instances: 2CA - B.ACIS - P5 - Hospitals - Companies - Foundations – Others

- 1) Estêvão Lima | Director of Urology Department | Hospital de Braga;
- 2) João Sousa | Vice Presidente da Direção da B'ACIS | School of Medicine, University of Minho;
- 3) Jorge Correia-Pinto | Director of Pediatric Surgery Department | Hospital de Braga.

2 - Scientific Research

A. Master & PhD (concluded in 2019)

1) Master

- 1.1. Ana Catarina Mesquita Azevedo | Influence of HOXA9 in the response of glioblastoma to immune checkpoint inhibitors | Bruno Costa & Cláudia Nóbrega | Master in Health Sciences;
- 1.2. Ana Raquel Ferreira Cunha | Exploiting RKIP protein as a novel predictor of EGFR targeted therapies response in lung cancer | Olga Martinho | Master in Health Sciences;
- 1.3. Andreia Filipa Gomes de Pinho | Impact of proteic and vesicular secretome of adipose tissue derived stem cells in spinal cord injury | António Salgado & Susana Monteiro | Master in Health Sciences;
- 1.4. Ângela Sofia Gerós Mesquita | | Cognitive performance: exploring the role of interleukin-10 male mice | Susana Oliveira & Palmira Silva | Master in Health Sciences,
- 1.5. Bruna Alexandra Vale Araújo | Hilar hippocampal cytogonesis: a new source of neural plasticity in the adult mammalian brain? | António Pinheiro & Luísa Pinto | Master in Health Sciences;

- 1.6. Bruna Filipa Oliveira Martins | The therapeutic impact of WNT/WNT6 inhibition and immune checkpoints blockade in glioblastoma | Bruno Costa | Master in Health Sciences;
- 1.7. Diana Marina Fonseca Rodrigues | Characterization of sex-specific nociceptive, emotional and electrophysiological impairments after the induction of the chronic constriction injury model of experimental neuropathic pain | Filipa Lacerda & Diana Amorim | Master in Health Sciences;
- 1.8. Helena Maria Vilaça Faria | Mesenchymal stem cells secretome - derived exosomes: biological nanovesicles for the treatment of Parkinson's disease? | Fábio Teixeira & António Salgado | Master in Health Sciences;
- 1.9. Henrique Emanuel Araújo Silva | Decoding the interplay between TAZ and metabolism in early lung development | Rute Moura & Marco Alves | Master in Health Sciences;
- 1.10. Inês Fernandes Lages | Dissecting chemotherapy resistance in prostate cancer: interplay between RKIP and androgen stimulation | Olga Martinho & Rui Reis | Master in Health Sciences;
- 1.11. Isaac Miguel Sánchez | Influence of host-pathogen genetic variants on malaria chemotherapy | Maria Veiga & Pedro Ferreira | Master in Health Sciences;
- 1.12. Joana Catarina Pereira Mendes | Social behavior under chronic pain conditions - the role of oxytocin | Hugo Almeida | Master in Health Sciences;
- 1.13. Joana Lima Sá | Dissecting petraxin-3 role in the modulation of multiple sclerosis | Fernanda Marques & Agostinho Carvalho | Master in Health Sciences;
- 1.14. João Filipe Oliveira Viana | The role of astrocytic metabotropic glutamate receptor 5 in cognitive function | João Oliveira | Master in Health Sciences;
- 1.15. Marta Sofia Carvalhal Monteiro | The potential role of innate immune memory in multiple sclerosis disease using autoimmune experimental encephalomyelitis mouse model | Fernanda Marques & João Cerqueira | Master in Health Sciences;
- 1.16. Nuno Filipe Lopes dos Santos | Targeting lactate transport for tumor immunotherapy | Sara Granja & Sandra Costa | Master in Health Sciences;

- 1.17. Rita de Melo Miranda | Mechanisms underlying Mycobacterium avium infection-induced thymic atrophy | Palmira Silva & Maria Correia-Neves | Master in Health Sciences;
- 1.18. Sofia Libório Passos Ramos | Macrophages in pulmonary fibrosis: characterization and fibroblasts transdifferentiation modulation | Sandra Costa | Master in Health Sciences.

2) PhD

- 2.1. Ana Isabel Ferreira de Oliveira | Intercellular relationships in the tumor microenvironment: implications for cancer pathophysiology | Bruno Costa & Bruno J Manadas | PhD in Aging and Chronic Diseases;
- 2.2. Daniel Rodrigues Machado | Integration of Sleep and Social Behavior in Drosophila melanogaster | Tiago G Oliveira & Kyunghee Koh | PhD in Medicine;
- 2.3. Eduardo Domingos Correia Gomes | Combination of Cellular Therapy with Peptide-modified Gellan Gum Hydrogels for Spinal Cord Injury Repair | António Salgado & Nuno Silva | PhD in Health Sciences;
- 2.4. Joana Filipa Madureira Gaifem | Deciphering the microbiome and metabolic factors contributing to protection against ulcerative colitis | Ricardo Silvestre & Duarte Barral | PhD in Aging and Chronic Diseases;
- 2.5. João Carlos Lima Gonçalves | Dissecting the mechanisms of dynein recruitment to the nuclear envelope during neocortical development | Tiago Oliveira & Richard Vallee | PhD in Medicine (Program MD/PhD);
- 2.6. João Luís Vaz Lima da Silva | Unraveling the synaptic role of RAB35: implications for Alzheimer's disease pathology | Ioannis Sotiropoulos & Clarissa Waites | PhD in Medicine (Program MD/PhD);
- 2.7. Liliana Patrícia Carvalho Amorim | Putting the focus on sleep quality: subjective sleep measures, actigraphy and brain correlates in ageing | Nadine Santos & Nuno Sousa | PhD in Health Sciences;

- 2.8. Mariana Rodrigues Resende da Silva | Assembly of granulomas during mycobacterial infections in mice: cellular and molecular Dynamics | Supervisors: António Gil Castro & Rui Appelberg | PhD in Health Sciences;
- 2.9. Pedro Miguel Silva Moreira | The dynamics of decision making: an approach to distinct valuation systems | Patrício Costa & Pedro Morgado | PhD in Health Sciences;
- 2.10. Rita Ribeiro da Silva | Diseases Immune recovery of HIV infected patients and thymus function | Ana Horta & Cristina João | PhD in Aging and Chronic Diseases;
- 2.11. Sónia Isabel Nunes Guerra Gomes | The impact of astrocyte calcium signaling in cortico-limbic function and behavior | João Oliveira & Luísa Pinto | PhD in Health Sciences;
- 2.12. Tiago José Abreu Mota | Development of a Lassa/rabies virus vaccine based on the rabies vector | António Gil Castro & Matthias Schnell | PhD in Medicine (Program MD/PhD);
- 2.13. Torcato Duarte Novo Meira | The role of the hippocampal CA2 area in social memory | João Cerqueira & Steven Siegelbaum | PhD in Medicine (Program MD/PhD).

B. International visiting researchers

- 1) Aina Bellver | Spain | Supervised by Andreia Teixeira-Castro and Patrícia Maciel | Seven months internship to determine the role of serotonin receptors in suppression of proteotoxicity in *C. elegans* models of Spinocerebellar ataxia type 3;
- 2) Bernardino Souto | Brazil | Supervised by Nuno Osório | Twelve months advanced research internship, post-doctoral level, on Genomic Epidemiology of the Human immunodeficiency virus 1 (HIV-1);
- 3) Georgia Athanasopoulou | Greece | Supervised by Ioannis Sotiropoulos | 4 months visit supported by ERASMUS program to study of the GR signaling in Alzheimer's disease pathology;
- 4) James Britton | Ireland | Supervised by António Salgado | Two months fellowship to study the Co-Transplantation of Adipose Tissue-Derived Stromal Cells and Olfactory Ensheathing Cells for Spinal Cord Injury Repair;

- 5) Jean Paul Nshizirungu | Rwanda | Supervised by Rui Reis | Six months fellowship to study the Microsatellite instability in gastric adenocarcinoma of Morocco;
- 6) Laura Blaikie | Scotland | Supervised by Patrícia Maciel. Four months research visit supported by ERASMUS program to evaluate efficacy of novel synthetic compounds in the *C. elegans* model of MJD;
- 7) Lea Pereira, | France | Supervised by Maria Isabel Veiga | Two months fellowship in "Defining drug resistance pathways in the malaria parasite";
- 8) Mariana Beltrame Corrêa | Brazil | Supervised by Fátima Baltazar | Five months fellowship to evaluate the effect of pilocarpine in the expression and activity of the monocarboxylate transporters in uterine cancer cells;
- 9) Marianna Scuglia | Italy | Supervised by Jorge Correia-Pinto | Twelve months fellowship to develop the project novel biodegradable membranes compared with Goretex® for the treatment of congenital diaphragmatic hernia: an experimental study;
- 10) Marianne Massa | France | Supervised by Paula Ludovico and Belém Sampaio-Marques | Two months fellowship to evaluate the effects of metabolites supplementation on yeast aging modulation;
- 11) Marie Clemence | France | Supervised by Ioannis Sotiropoulos | Two months Summer rotation undergraduate student to study the role of Tau in neurogenesis suppression in stressed brain;
- 12) Mark Bisschops | Netherlands | Supervised by Paula Ludovico and Belém Sampaio-Marques | One-month fellowship to decipher the mode(s) of cell death in the yeast *Saccharomyces cerevisiae* under anaerobic conditions;
- 13) Natália Noronha Ferreira Naddeo | Brazil | Supervised by Fátima Baltazar | Five months fellowship to evaluate synergic effects between alpha-cyano-4-hydroxycinnamic acid and cetuximab against glioblastoma using drug delivery systems;
- 14) Regina da Silva | Brazil | Supervised by Luisa Pinto | Three months to study behavioural tests and protocol for induction of stress-induced depression in rats;
- 15) Renata Sobiskova | Czech Republic | Supervised by Nuno Silva | One month laboratory rotation within the Research Exchange of IFMSA to test new drugs for spinal cord injury repair;
- 16) Vassiliki Georgopoulou | Greece | Ioannis Sotiropoulos | Six month research supported by ERASMUS program to study the impact of chronic stress and GR signaling in Tau pathology.

C. Oral and/or poster presentation presented in meetings

- 1) Afonso J., Marques R., Barbosa-Matos C., Michaelis M., Longatto A., Santos L., Cinatl J., Sardão V. & Baltazar F. | Cisplatin-resistant urothelial bladder cancer cells undergo metabolic reprogramming | 26th Porto Cancer Meeting and 5th Joint Meeting Porto-Bordeaux | May 1-3 | Porto, Portugal;
- 2) Amorim L., Sousa A., Castanho TC., Sousa N., Santos NC. | Sleep quality meaning and its association with the Pittsburgh sleep quality index (PSQI): A population base study across the adult lifespan | Neuroscience 2019, Annual Meeting for SFN | October 19-23 | Chicago, USA;
- 3) Antunes D., Rodrigues C., Gonçalves S., Duarte-Oliveira C., Campos C., Rodrigues F., Silvestre R., Cunha C., Carvalho A. | Glutamine metabolism regulates the immune response to the fungal pathogen *Aspergillus fumigatus* | XLV Annual Meeting of the Portuguese Society of Immunology | May 15-17 | Coimbra, Portugal;
- 4) Araujo M, Guimaraes Y., Cury F., Santana I., Longatto A. | Avaliação de análise automatizada de citologia anal e comparação de achados de alto grau em relação à presença de HSIL/ASC-H na citologia cervical | 32º Congresso Brasileiro de Patologia | May 2-5 | Fortaleza, Brasil;
- 5) Araujo M, Pec L., Oliveira C., Santana I., Fregnani J., Villa L., Silva R., Longatto A. | Screening for anal HPV in msm and follow up after treatment for anal condiloma | Eurogin 2019 | December 4-7 | Monaco;
- 6) Araújo P., Osório N. | SNAPPy: a snakemake pipeline for HIV-1 subtyping by phylogenetic pairing | Bioinformatic Open days | February 21-22 | Braga, Portugal;
- 7) Araújo-Silva H., Alves M., Correia-Pinto J., Oliveira P., Moura R. | TAZ as a potential player in developmental lung metabolic rewiring | Young Embryologist Network (YEN) Conference | May 13 | London, UK;
- 8) Baltazar F. | Altered metabolism as hallmark of cancer: role of lactate transporters | CIBB meeting 2019 | December 20 | Coimbra, Portugal;
- 9) Barbosa A., Afonso J., Pastrez P., Baltazar F., Longatto A. | Characterization of glycolytic metabolism of esophageal carcinomas and evaluation of its potential as therapeutic target | 6th Annual ISCaM Meeting 2019 | October 17-19 | Braga, Portugal;

- 10) Barbosa A., Ferreira C., Ferreira C., Mesquita I., Fraga A., Longatto A., Osório N., Carvalho C., Silvestre R., Rodrigues R., Baltazar F., Castro AG., Costa S. and Torrado E. | Commensal gut bacteria modulate immune surveillance and promote extra-intestinal tumor overgrowth | 6th Annual ISCaM Meeting 2019 | October 17-19 2019 | Braga, Portugal;
- 11) Barbosa-Matos C., Borges-Pereira C., Libório-Ramos S., Torrado E., Mazzone M. & Costa S. | Regulation of pulmonary fibrosis by hepatocyte growth factor receptor signalling | EMB FEBS Lecture Course "Molecular mechanisms of tissue injury, repair and fibrosis" | May 23-31 | Spetses Island, Greece;
- 12) Barbosa-Matos C., Borges-Pereira C., Libório-Ramos S., Torrado E., Mazzone M. & Costa S. | Induction of c-Met expression in immune cells drives pulmonary fibrosis | Champalimaud Research Symposium "Tissue Environment in Health and Disease" | October 8-10 | Lisboa, Portugal;
- 13) Barbosa-Sequeira J., Felizes A., Barroso C., Lamas-Pinheiro R. & Correia-Pinto J. | Laparoscopic pyeloplasty: Comparing outcomes between children under and over 1 year-old in a single center | IPEG's 28th Annual Congress for Endosurgery in Children | March 19-22 | Santiago, Chile;
- 14) Barreira-Silva P., Melo-Miranda R., Nobrega C., Serre-Miranda C., Roque S., Borges M., Behar SM., Appelberg R. & Correia-Neves M. | Mycobacterium avium infection-induced thymic atrophy is associated with alterations in bone marrow precursors, thymic stroma and thymocyte viability | MycoPorto 2019 | September 19-20 | Porto, Portugal;
- 15) Barroso C., Braga I., Felizes A., Lamas-Pinheiro R. & Correia-Pinto J. | Cirurgia minimamente invasiva no tratamento da obstrução da junção pielo-ureteral desde o primeiro ano de vida | Reunião Anual da Sociedade Portuguesa de Nefrologia Pediátrica | October 11 | Lisbon, Portugal;
- 16) Barroso C., Felizes A., Silva AR., Gonçalves M., Gonçalves A., Cadilhe A., Santos MJ., Pereira A. & Correia-Pinto J. | Tratamento contemporâneo de CPAM com diagnóstico pré-natal | Jornadas da Sociedade Portuguesa de Pneumologia Pediátrica e do Sono | May 9-11 | Ílhavo, Portugal;
- 17) Barroso C., Silva A., Felizes A., Braga I. & Correia-Pinto J. | Thoracoscopic left upper lobectomy for CPAM. | 12th SPCMIN Congress | October 11-13 | Coimbra, Portugal;

- 18) Barroso C., Silva A., Lamas-Pinheiro R., Osório A., Carvalho J., Correia-Pinto J. & Antunes H. | Gastroenterological follow-up after thoracoscopic repair of esophageal atresia | ESPGHAN 52nd Annual Meeting | June 5-8 | Glasgow, United Kingdom;
- 19) Barroso C., Silva AR., Júnior JM. & Correia-Pinto J. | New ways of looking at cleft palate repair | IPEG's 28th Annual Congress for Endosurgery in Children | March 19-22 | Santiago, Chile;
- 20) Barroso C., Silva AR., Lamas-Pinheiro R., Monteiro J., Carvalho JL. & Correia-Pinto J. | Incidental findings of gynecological anomalies during laparoscopic procedures | IPEG's 28th Annual Congress for Endosurgery in Children | March 19-22 | Santiago, Chile;
- 21) Bertão A., Vilaça N., Granja S., Costa M., Parpot P., Fonseca AM., Bañobre-López M., Baltazar F. & Neves I. | In vitro and in vivo efficacy evaluation of drug delivery systems based on zeolites | Nanomed Europe 2019 | June 17-19 | Braga, Portugal.
- 22) Bessa J., Morgado P., Monteiro P., Santos N.C., Leao C. | Clinical Ethics for Physicians and Medical Students: interactive case studies and clinical simulation as training tools for ethical reflective learning in Neuroscience | ICONE - 5th International Conference on Neuroethics 2019 | September 16-17 Lisbon, Portugal;
- 23) Bianco P., Sanchez-Cordony R., Verinz A., Godinho U., Weyer S., Lesellier J., Spiropoulos T., Floyd D., Everest Y. & Nunez A. | Pathology of idiopathic amyloidosis in four captive badgers (meles meles) | Joint congress of veterinary pathology and veterinary clinical pathology | September 25-28 | Burgers' Zoo Arnhem, the Netherlands;
- 24) Borges A., Sarabando R., Sousa D., Vieira A., Bivar L., Ribeiro B., Igreja J., Miranda A., Barbosa P., Cerqueira M., Reis I. & Nogueira-Silva C. | Pelvic floor dysfunction after vaginal delivery: moods study | 27th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI) | November 21 - 23 | Paris, France;
- 25) Braga I., Silva MC., Lamas-Pinheiro R. & Correia-Pinto J. | The impact of blue dye injection in the morbidity of the laparoscopic treatment of varicocele | 9th Annual Congress of the European Society of Paediatric Endoscopic Surgeons | September 11-13 | Vicenza, Italy;
- 26) Braga J., Meirinho SG. & Oliveira MC. | Preparation of AuNPs nanocomposites for electroanalytical sensors development | XXV Encontro Luso-Galego De Química 2019 | November 20-22 | Santiago de Compostela-Galicia, Spain;
- 27) Bravo F., Miranda A., Santa-Marinha L., Xu Y., Gomez E. & Oliveira TG. | Lipidomic determinants of seizure severity in an Alzheimer's disease mouse model | AD/PD 2019, the 14th

International Conference on Alzheimer's and Parkinson's Diseases | March 26-31 | Lisboa, Portugal;

- 28) Campos A., Duarte-Silva S., Neves-Carvalho A., Nogueira-Gonçalves G., Teixeira-Castro A. & Maciel P. | Microglial and astrocytic pathology in a mouse model of Machado-Joseph disease | XIV European Meeting on Glial Cells in Health and Disease | July 10-13 | Porto, Portugal;
- 29) Campos B., Duarte-Silva S., Neves-Carvalho A., Nogueira-Gonçalves G., Silva-Fernandes A., Teixeira-Castro A., Brites D., Ambrósio A. & Maciel P. | Microglial and astrocytic pathology in a mouse model of Machado-Joseph disease | 2019 International Ataxia Research Conference (IARC)|November 14-16 | Washington, USA;
- 30) Campos C., Bastos H., Sokhatska O., Duarte-Oliveira C., Antunes D., Gonçalves S., Costa S., Silvestre R, Delgado L., Morais A., Torrado E., Garlanda C., Mantovani A., Cunha C. & Carvalho A. | Macrophage-derived PTX3 regulates granuloma formation in sarcoidosis through metabolic reprogramming | XLV Annual Meeting of the Portuguese Society of Immunology | May 15-17 | Coimbra, Portugal;
- 31) Cardoso-Carneiro D., Cunha P., Nogueira R., Raquel-Cunha A., Peters A., Carvalho A., Reis R. & Martinho O. | RKIP protein as a potential prognostic, aggressiveness and therapy response biomarker in HNSCC | VII International Symposium on Translational Oncology | September 13-14 | Barretos, Brazil;
- 32) Carvalho L., Oliveira-Pinto S., Pontes O., Lopes D., Ferreira B., Proença M., Baltazar F. & Costa M. | Síntese e atividade biológica de novos agentes anticancerígenos para o tratamento do cancro da mama | 1º Encontro Nacional de Jovens Investigadores em Oncologia | September 10 | Porto, Portugal;
- 33) Carvalho-Antunes B., Sobral-Baptista A. & Baltazar F. | Evaluation of antitumor activity of AZD3965 using in vivo |6th Annual ISCaM Meeting 2019| October 17-19 | Braga, Portugal;
- 34) Casanova M., Costa P., Lawthom R. & Coimbra J. | How can Psychological Intervention and Career Counselling Respond to Uncertainty, Precarity and Unemployment's Psychosocial Consequences? |NorNet Conference: Critical perspectives on agency and social justice in transitions and career development | October 23-24 | Copenhagen, Denmark;
- 35) Casanova M., Costa P., Lawthom R. & Coimbra J. | Meaning-making on Uncertainty, Precarity and Unemployment's Psychosocial Consequences: the case of Community and Political Leaders | Qualitative Methods in Psychology & History and Philosophy of Psychology Conference 2019 | July 3-5 | Cardiff, United Kingdom;

- 36) Casanova M., Costa P., Lawthom R. & Coimbra J. | Psychosocial Uncertainty as a Factor for Inequality – employment, unemployment and precarity in Portugal in 2009 |2019 Annual Conference of the British Psychological Society | May 1-2 | Harrogate, United Kingdom;
- 37) Casanova M., Costa P., Lawthom R. & Coimbra J. | Meaning making on Psychosocial Uncertainty and its Political Consequences |5th UK Community Psychology Festival - Critical Optimism in an Age of Austerity | September 13-14 | Brighton, United Kingdom;
- 38) Celeiro S., Reis R. & Viana-Pereira M. | Therapeutic relevance of SPINT2 in Melanoma | 6th Annual ISCaM Meeting 2019 | October 17-19 | Braga, Portugal;
- 39) Cibrão J., Monteiro S., Lima R., Serra S., Teixeira F., Graça J., Silva N. & Salgado AJ. | The Therapeutic Effect of Adipose Mesenchymal Stem Cells Secretome on a Mouse Spinal Cord Injury Model |5th International Spinal Cord Repair Meeting| December 13-14| Barcelona, Spain;
- 40) Coimbra B., Soares-Cunha C., Borges S., Domingues A., Vasconcelos N., Sousa N. & Rodrigues AJ. | Role of different laterodorsal tegmentum inputs to nucleus accumbens in reward | Neuroscience 2019, Annual Meeting for SFN | October 19-23 | Chicago IL, USA;
- 41) Coimbra B., Soares-Cunha C., Borges S., Sousa N. & Rodrigues AJ. | LDT to nucleus accumbens inputs drive preference and increase motivation | XVI Meeting of the Portuguese Society for Neuroscience (SPN) | May 30 - June 1 | Lisboa, Portugal;
- 42) Costa B. | Key cellular and molecular regulators of malignant brain tumors | Portuguese Society of Oncology - Research Course | June 14 | Coimbra, Portugal;
- 43) Costa M., Da Silva J., Almeida D., Pereira-Sousa J., Teixeira-Castro A. & Maciel P. | Anti-aging genetic manipulation in *C. elegans* impact differentially in Machado-Joseph disease | Workshop on "Strategies & tools for modulating pathologic protein self-assembly in proteinopathies" | March 21-22 | Porto, Portugal;
- 44) Costa T., Fraga A., Neves N. & Aguilar H. | Influence of topographic properties on the antimicrobial effect of polymer-coated surfaces | Microbiotec 19 - Congress of Microbiology and Biotechnology 2019 | December 5-7 | Coimbra, Portugal;
- 45) Cruz S., Campos C., Timóteo M., Tavares M., Nascimento S., Medeiros R. & Sousa H. |Systematic review of hepatitis e virus prevalence in hematopoietic stem cell transplant recipients | 22 ESCV Congress 2019 | September 11-14 |Copenhagen, Denmark;

- 46) Cunha A., Esteves M., Pereira-Mendes J., Guimarães M., Sousa N., Almeida A. & Leite-Almeida H. | Trait and state impulsivity in chronic pain: a rodent study | XVI Meeting of the Portuguese Society for Neuroscience (SPN) | May 30 - June 1 | May 30th – June 1st, 2019| Lisboa, Portugal;
- 47) Cunha A., Esteves M., Pereira-Mendes J., Guimarães M., Sousa N., Almeida A. & Leite-Almeida H. | Chronic pain increases impulsivity in high- (but now low-) impulsive rats. | EBPS Biennial Meeting | August 29-31| Braga, Portugal;
- 48) de Carvalho A., Strikoudis A., Liu H., Chen Y., Dantas T., Vallee R., Correia-Pinto J. & Snoeck HW. | Glycogen synthase kinase 3 induces multilineage maturation of human pluripotent stem cell-derived lung progenitors in 3D culture | Jornadas da Sociedade Portuguesa de Pneumologia Pediátrica e do Sono | May 9-11 | Ílhavo, Portugal;
- 49) Deprez M., Sampaio-Marques B., Vliegen D., Andries C., Eskes E., Bruggeman Y., Ma T., Ludovico P. & Winderickx J. | Cross-talk between pH Homeostasis and Vacuolar Amino Acid Metabolism: an Essential Aspect of Ageing? | 29th International Conference on Yeast Genetics and Molecular Biology | August 18-22 | Gothenburg, Sweden;
- 50) Domingos C., Pêgo JM. & Santos NC | The role of physical activity on healthy brain aging using a wearable device to measure and quantify free-living physical activity| 3rd Annual Meeting CINBIO “From bench to bedside: diagnosis, therapy & data analysis” | July 1-2 | Vigo, Spain;
- 51) Dominguez J., Pacheco A., Peixoto M., Mendes A., Fraga A. & Pedrosa J. | Statins as new candidates for the treatment of Buruli Ulcer | Microbiotec 19 - Congress of Microbiology and Biotechnology 2019| December 5-7 | Coimbra, Portugal;
- 52) Duarte-Oliveira C., Cunha C., Amorim A., Redondo M., Martins N., Oliveira L. & Carvalho A. | Genetic variation in innate immune receptors influences susceptibility to bacterial infection in patients with bronchiectasis | The European NTM & Bronchiectasis Workshop | July 6-8 | Vienna, Austria;
- 53) Duarte-Oliveira C., Ferreira S., Campos C., Antunes D., Gonçalves S., Mantovani A., Cunha C. & Carvalho A. | PTX3-dependent regulation of antifungal immunity in chronic pulmonary aspergillosis | XLV Annual Meeting of the Portuguese Society of Immunology | May 15-17 | Coimbra, Portugal;
- 54) Duarte-Silva S., Silva J., Neves-Carvalho A., Raposo M., Soares-Cunha C., Correia J., Nogueira-Gonçalves G., Oliveira S., Teixeira-Castro A. & Maciel P. | A Glucocorticoid receptor-dependent

mechanism of bile acid action with therapeutic impact in polyglutamine disease | 2019 ISN-ASN Meeting | August 4-8 | Montreal, Canada;

- 55) Duarte-Silva S., Teixeira-Castro A. & Maciel P. | Disease-modifying therapies for SCA3: lessons from preclinical trials | 2019 International Ataxia Research Conference (IARC) | November 14-16 | Washington, USA;
- 56) Esteves M., Cabral J., Cunha A., Reis J., Almeida A., Sousa N. & Leite-Almeida H. | Prefrontal-striatal functional encoding of impulsivity - a brief (3 seconds) history of brain time | XVI Meeting of the Portuguese Society for Neuroscience (SPN) | May 30 - June 1 | May 30 – June 1 | Lisboa, Portugal;
- 57) Esteves M., Cabral J., Cunha A., Reis J., Almeida A., Sousa N. & Leite-Almeida H. | Networks of impulsivity – prefrontal-striatal encoding of behavioral inhibition | EBPS Biennial Meeting | August 28-31 | Braga, Portugal;
- 58) Etlinger P., Barroso C., Miranda A., Szabo A. & Correia-Pinto J. | When are the trainees ready to transfer skills from LAB to the OR. | IPEG's 28th Annual Congress for Endosurgery in Children | March 19-22 | Santiago, Chile;
- 59) Fernandes C., Antunes D., Almeida M., Prados-Rosales R., Silva B., Nakouzi-Naranjo A., Zuzarte M., Chatterjee S., Stark R., Pina-Vaz C., Carvalho A., Borges O., Casadevall A. & Gonçalves T. | The melanin synthesis in *Alternaria infectoria* - a protection against antifungal drugs and against immune response | ASM Microbe 2019 | June 20-24 | San Francisco, USA;
- 60) Fernandes-Silva H., Alves M., Araújo-Silva H., Correia-Pinto J., Oliveira P. & Moura R. | A Warburg-like metabolic profile underlies early pulmonary branching morphogenesis | 44th FEBS Congress | July 6-11 | Krakow, Poland;
- 61) Ferreira C., Mesquita I., Moreira D., Cunha C., Carvalho A., Sarkar A., Saha B., Laskay T., Estaquier J. & Silvestre R. | Immunometabolic networks in the regulation of visceral leishmaniasis. | XLV Annual Meeting of the Portuguese Society of Immunology | May 15-17 | Coimbra, Portugal;
- 62) Ferreira N., Baltazar F., Silvestre R. & Granja S. | Elucidating the impact of IL-17A/F in lung cancer | 3rd Symposium on Immunomodulation in Cancer and Regeneration | June 25 | Porto, Portugal;
- 63) Ferreira N., Granja S., Baltazar F. & Gremião M. | Exploiting hallmarks of cancer using nanotechnology tools as a novel therapeutic strategy against glioblastoma: biological

performance | 22nd International Symposium on Microencapsulation | September 25-27 | Salvador, Brasil;

- 64) Ferreira S., Picó-Pérez M., Sousa M., Vieira R. & Morgado P. | A feasibility study of fMRI neurofeedback for treatment-resistant obsessive-compulsive disorder | Real-Time Functional Imaging and Neurofeedback conference | December 7-11 | Maastricht, Netherlands;
- 65) Fevereiro J., Fraga A., Peixoto MJ., Mendes A., Pacheco A., Silva-Gomes ., Capela C., Sopoh G., Dossou A., Cunha C., Carvalho A., Rodrigues F. & Pedrosa J. | Transcriptome of model of spontaneous healing of *M. ulcerans*-infection reveals dependency on immune-related pathways. MycoPorto 2019 | September 19-20 | Porto, Portugal;
- 66) Fonseca M., Sediyaama M., Figueira G., Vilasboas-Campos D., Bessa C., Costa M., Maciel P. & Dias A. | Neuroprotective and antioxidant effects of *Maranta arundinacea* and *Porophyllum ruderale* in *Caenorhabditis elegans* | Food Chemistry Conference | September 17-19 | Seville, Spain;
- 67) Godzien J., Czajkowski M., Rojo-Blanco D., Cunha C., Lagrou K., Maertens J., Barbas C. & Carvalho A. | Diagnosis of aspergillosis based on metabolomics data - application of relative expression analysis-RXA to minimize interindividual metabolic differences | 2019 Metabolomics Conference | June 23-27 | The Hague, the Netherlands;
- 68) Gomes E., Ghosh B., Lima R., Goulão M., Urban M., Silva D., Sousa N., Lepore A., Silva N. & Salgado A. | Combination of a Gellan Gum-based Hydrogel with Cell Therapy for the Treatment of Cervical Spinal Cord Injury | TERMIS EU 2019 | May 27-31 | Rhodes, Greece;
- 69) Gomes E., Ghosh B., Lima R., Goulão M., Urban M., Silva D., Sousa N., Lepore A., Silva N. & Salgado A. | Cellular Therapies combined with Gellan Gum-based Hydrogels for Cervical Spinal Cord Injury Repair | 1st Minho Meeting on Spinal Cord Injury 2019 | July 15 | Braga, Portugal;
- 70) Gomes E., Mendes S., Ghosh B., Lima R., Goulão M., Urban M., Assunção-Silva R., Anjo S., Banadas B., Gimble J., Sousa N., Lepore A., Silva N. & Salgado A. | Combination of Cellular Therapy with Gellan Gum Hydrogels for the Treatment of Cervical, Thoracic and Lumbar Spinal Cord Injuries | TERMIS AP Congress 2019 | October 14-17 | Brisbane, Australia;
- 71) Gomes E., Mendes S., Ghosh B., Lima R., Goulão M., Urban M., Assunção-Silva R., Gimble J., Sousa N., Lepore A., Silva N. & Salgado A. | Tissue Engineering for Spinal Cord Injury Repair: Combination of Functionalized Hydrogels and Cellular Therapies | Encontro Ciência 2019 | July 8-10 | Lisbon, Portugal;

- 72) Gomes S., Granja S, Silva E., Baltazar F. & Preto A. | Unveiling the role of diet microbiome-derived short chain fatty acids in colorectal cancer metabolism | 6th Annual ISCaM Meeting 2019| October 17-19 | Braga, Portugal;
- 73) Gomes S., Macedo J., Azevedo M., Chaves S, Silva S., Baltazar F. & Preto A. | Uncovering the role of acetate in the prevention of colorectal cancer induced by food contaminants | 26th Porto Cancer Meeting and 5th Joint Meeting Porto-Bordeaux | May 1-3 | Porto, Portugal;
- 74) Gomes-Rosa B., Sobral-Silva C. & Baltazar F. | Prognostic value of Monocarboxylate transporter 1 overexpression in different cancer types: a systematic review | 6th Annual ISCaM Meeting 2019| October 17-19 | Braga, Portugal;
- 75) Gonçalves C., Castro J., Xavier-Magalhães A., Martins E., Pojo M., Queirós S., Chautard E., Taipa R., Pires M., Pinto A., Pardal F., Custódia C., Faria C., Clara C., Pinheiro C., Reis R., Sousa N. & Costa B. | Deciphering key roles of WNT6 in glioblastoma: mechanistic, functional, and clinical insights | 10th Brain Tumor Meeting | May 23-24| Berlin, Germany;
- 76) Gonçalves C., Castro J., Xavier-Magalhães A., Martins E., Pojo M., Queirós S., Chautard E., Taipa R., Pires M., Pinto A., Pardal F., Custódia C., Faria C., Clara C., Pinheiro C., Reis R., Sousa N. & Costa B. | WNT6 is a novel oncogenic prognostic biomarker in human glioblastoma | 6th Annual ISCaM Meeting 2019 | October 17-19| Braga, Portugal;
- 77) Gonçalves S., Duarte-Oliveira C., Campos C., Aimaniana V., Antunes D., Rodrigues C., Torrado E., Silvestre R., Chamilos G., van de Veerdonk F., Netea M., Latgé J., Cunha C. & Carvalho A. | Fungal melanin regulates antifungal immunity via calcium-mediated reprogramming of macrophage metabolism | XLV Annual Meeting of the Portuguese Society of Immunology | May 15-17 | Coimbra, Portugal;
- 78) Graça J., Gomes E., Lima R., Serra S., Afonso J., Pereira, Monteiro S., Salgado A., Almeida R. & Silva N. | Exploring the Effects of Spleen-derived M2 Macrophages for Spinal Cord Injury Repair | 1st Minho Meeting on Spinal Cord Injury 2019| July 15 | Braga, Portugal;
- 79) Guimarães M., Miranda C., Cunha A., Pereira-Mendes J., Ferreira C., Esteves M., Sousa N., Almeida A., Torrado E., Correia-Neves M. & Leite-Almeida H. | Inflammatory profile influences chronic pain development after peripheral nerve injury | XVI Meeting of the Portuguese Society for Neuroscience (SPN) | May 30 – June 1| Lisboa, Portugal;
- 80) Guimaraes Y., Araujo M., Resende J., Santana I., Cury F. & Longatto A. | FocalPoint GS System for anal cytology and relation of high risk results of anal cytology in women with cervical HPV infection | 42nd European Congress Of Cytology | June 16-19 | Malmo, Sweden;

- 81) Laranjeira I., Apolinário E., Amorim D., Almeida A., Silva-Filho A., Dias A. & Pinto-Ribeiro F. | *Baccharis dracunculifolia* ameliorated nociceptive, emotional impairments, and decrease microglia activation in rats with osteoarthritis | Natural Products in Drug Discovery and Human Health (NatProdDDH) 2019 PSE Meeting | July 28-31 | Lisbon, Portugal;
- 82) Laranjeira I., Rodrigues D., Almeida A. & Pinto-Ribeiro F. | Pain severity is associated with the development of depression and anxiety in patients with osteoarthritis: systematic review and meta-analysis | XVI Meeting of the Portuguese Society for Neuroscience (SPN) | May 30 - June 1 | Lisbon, Portugal;
- 83) Leite-Almeida H. | Chronic pain and social behavior in rats: a two-way road | EBPS Biennial Meeting | August 28-31 | Braga, Portugal;
- 84) Libório-Ramos S., Barbosa-Matos C., Borges-Pereira C., Fernandes R. & Costa S | Pulmonary macrophages profile during the inflammatory phase of lung fibrosis | Champalimaud Research Symposium "Tissue Environment in Health and Disease" | October 8-10 | Lisboa, Portugal;
- 85) Lima A., Campos C., Cunha C., Carvalho A., Reis R., Ferreira H. & Neves N. | IL-23 inactivation by targeted liposomes to mediate the regression of autoimmune diseases | TERMIS EU 2019 | May 27-31 | Rhodes, Greece;
- 86) Lima R., Gomes E., Cibrão J., Assunção-Silva R., Rodrigues C., Neves-Carvalho A., Monteiro S., Salgado A.J. & Silva N. | Levetiracetam Acute Treatment Promotes Protection of Neural Tissue and Functional Recovery After Spinal Cord Injury | 1st Minho Meeting on Spinal Cord Injury 2019 | July 15 | Braga, Portugal;
- 87) Lima R., Gomes E., Pereira I., Assunção-Silva R., J. Graça, Cibrão J., Monteiro S., Salgado A.J. & Silva N. | Animals Models in Spinal Cord Injury Regenerative Medicine: From Molecular to Cell Therapies Using Engineered Biomaterials | TERMIS AP Congress 2019 | October 14-17 | Brisbane, Australia;
- 88) Lomba B., Raposo J., Pereira-Sousa J., Maciel P. & Teixeira-Castro A. | Serotonergic signaling modulation of protein homeostasis in *C. elegans* expressing firefly luciferase | Workshop on Integrative Approaches to Protein Folding & Aggregation | June 11-12 | Lisbon, Portugal;
- 89) Lomba B., Raposo J., Pereira-Sousa J., Maciel P. & Teixeira-Castro A. | Using luciferase mutants to study the impact of serotonergic signaling modulation of proteostasis in *C. elegans* | Workshop on Strategies & tools for modulating pathologic protein self-assembly in proteinopathies | March 21-22 | Porto, Portugal;

- 90) Longatto A., Baltazar F., Afonso J. & Barbosa A. | Characterization of glycolytic metabolism of oesophageal carcinomas and evaluation of its potential as therapeutic target 6th Annual ISCaM Meeting 2019 | October 17-19 2019 | Braga, Portugal;
- 91) Lopes D., Oliveira-Pinto S., Louçano J., Baltazar F., Costa M. & Proença M. | Synthesis of functionalized chromeno [2,3-b]pyridines: promising agents for breast cancer treatment | 4th Symposium on Medicinal Chemistry | May 24 | Braga, Portugal;
- 92) Ludovico P. | The role of proteolytic systems and metabolism in acute myeloid leukemia | CINBIO | April 11 | Vigo, Spain;
- 93) Magalhães C., Comas I., Saraiva M. & Osório NS | Uncovering the epitopes underlying the induction of varying adaptive immune responses by different Mycobacterium tuberculosis lineages | European Society of Mycobacteriology (ESM) | June 30– July 3 | Valencia, Spain;
- 94) Marinha L., Castanho I., Silva R., Bravo F., Miranda A., Xu Y., Point du Jour K., Wenk M., Chan R., Di Paolo G., Pinto V., Oliveira TG. | Phospholipase D1 ablation disrupts dorsal-ventral hippocampal axis | Neuroscience 2019, Annual Meeting for SFN | October 19-23 | Chicago, USA;
- 95) Marote A., Mendes-Pinheiro B., Gomes E., Domingues A., Patrício P., Barata-Antunes S., Serre-Miranda C., Fernandes-Platzgummer A., Teixeira F., Lobato da Silva S., Roybon L., Pinto L., Salgado A. | Induced Pluripotent Stem Cell-derived Mesenchymal Stem Cells secretome as a new therapeutic tool for Parkinson's disease | 11th International Meeting of the Portuguese Society for Stem cells and Cell Therapies | October 10-12 | Lisbon, Portugal;
- 96) Marote A., Mendes-Pinheiro B., Gomes E., Lamas N., Pinto L., Roybon L. & Salgado A. | Generation of an in vitro model of Parkinson's disease to explore the neuroprotective effects of mesenchymal stem cells secretome | FENS Regional Meeting | July 10-13 | Belgrade, Serbia;
- 97) Marques C., Pereira-Sousa J., Serra S., Sousa R., Teixeira-Castro A. & Salgado A. | A neuroprotective role played by secretome from mesenchymal stem cells against the action of a-synuclein on a Caenorhabditis elegans model of Parkinson's disease | Portuguese Society for Neuroscience (SPN) | May 30 - June 1 | Lisboa, Portugal;
- 98) Marques F. | Patch-seq analysis of the choroid plexus epithelial cell barrier in homeostasis and in Alzheimer's disease | Panel discussion at Neuroscience 2019, Annual Meeting for SFN promoted by Cure Alzheimer's Fund, Targeting breakthrough research | October 21 | Chicago, USA;

- 99) Marques F. | Role of astrocytic proteins in Multiple Sclerosis | 18th National Meeting of the Spanish Society of Neuroscience | September 4-6 | Santiago de Compostela, Spain;
- 100) Martins E., Pojo M., Gonçalves C., Carvalho R., Ribeiro A., Taipa R., Pardal F, Pinto A., Custódia C., Faria C., Sousa N., Paredes J. & Costa B. | Functional and prognostic relevance of CDH3/P-cadherin in glioblastoma | 26th Porto Cancer Meeting and 5th Joint Meeting Porto-Bordeaux | May 1-3| Porto, Portugal;
- 101) Martins E., Pojo M., Gonçalves C., Carvalho R., Ribeiro A., Taipa R., Pardal F, Pinto A., Custódia C., Faria C., Sousa N., Paredes J. & Costa B. | CDH3/P-cadherin is an oncogenic biomarker in glioblastoma | XI Congresso Nacional da Associação Portuguesa de Neuro-Oncologia | January 18-19| Lisbon, Portugal;
- 102) Martins S., Costa I., Giunti P., Watanabe M., Sasaki H., Almeida B., Amorim A., Nicholson G., Saraiva-Pereira M., Tsuji S., Li Q., Chen S., Landouere G., Maciel P., Sharony R., Zhou Y-X., Brunt E., Corral-Juan M., Hsieh M., Tranebjærg L., Ogun S., Finkel M., Gordon C., Cornejo-Olivas M., Fishbeck K., Matilla A., Volpini V., Riess O., Wu Z-Y., Jardim J., Stevanin G., Brice A., Coutinho P., Soong B-W., Ranum L., Dürr A. & Sequeiros J. | The Joseph and Machado lineages and their sublineages in families with Machado-Joseph disease spread worldwide | 2019 International Ataxia Research Conference (IARC)| November 14-16 | Washington DC, USA;
- 103) Mendes A., Fraga A., Rebelo R., Reis R., Correlo V., Pedrosa J. & Marques A. | Biomaterials-based therapeutic approach targeting Mycobacterium ulcerans infection | Microbiotec 19 - Congress of Microbiology and Biotechnology 2019 | December 5-7 | Coimbra, Portugal;
- 104) Mesquita I., Ferreira C., Kluck G., Barbosa A., Torrado E., Dinis-Oliveira RJ., Rodrigues F., Sparwasser T., Cunha C., Carvalho A., Saha B., Castro AG., Estaquier J. & Silvestre R. | HIF-1 α induction suppresses lipid accumulation in myeloid cells and protects against Leishmania donovani infection | Annual Meeting of the Portuguese Society for Immunology | May 15-17 | Coimbra, Portugal;
- 105) Miguelote R. | Abortos de Repetição: Uma nova perspectiva | Reunião da Associação Portuguesa de Diagnóstico Pré-Natal | October 4-5 | Viana do Castelo, Portugal;
- 106) Miguelote R. | Qual o papel do parto com o mínimo de intervenção médica na realidade obstétrica atual | XI Jornadas Materno-Fetais “REFLEXÃO SOBRE O PARTO” | October 26 | Trofa, Portugal;
- 107) Miguelote R., Soares M., Silva V., Costa S., Brás F., Santos R. & Dantas S. | O contributo do stress psicológico para a oligo/anovulação: da amenorreia hipotalâmica funcional ao síndrome

do ovário poliquístico | 7º Congresso Português de Medicina da Reprodução | May 9-11 | Porto, Portugal;

- 108) Miranda AM., Di Paolo G., Oliveira TG. | Neuronal endolysosomal dysfunction and exosome secretion: differential impact of PI3P and PI(3,5)P2 deficiency | AD/PD 2019, the 14th International Conference on Alzheimer's and Parkinson's Diseases | March 26-31 | Lisboa, Portugal;
- 109) Monteiro P. | Chronic stress differentially impacts cell-specific populations in the striatum. | EMBO fellows meeting | June 13-16 | Heidelberg, Germany;
- 110) Monteiro P., Santos N.C., Morgado P., Bessa J., Leao C. | Advanced training in research integrity and bioethics (tRIBE): neuroscience case studies as a training tool for ethical reflective learning. | ICONE - 5th International Conference on Neuroethics 2019 | September 16-17 | Lisbon, Portugal;
- 111) Monteiro S., Lima, R., Cibrão J., Graça J., Pinho A., Miranda C., Correia-Neves M., Salgado AJ. & Silva N. | Exploring the Spinal-Spleen Circuitry as a target for immunomodulation after Spinal Cord Injury | IV Symposium of the Portuguese Glial Network: "Glia Diversity in Neuromodulation and Neurodegeneration | May 29 | Lisbon, Portugal;
- 112) Monteiro S., Macieira M., Pinho A., Serre-Miranda C., Lima R., Cibrão J., Vasconcelos, N., Graça J., Miranda A., Soares-Cunha C., Rodrigues AJ., Correia-Neves M., Salgado, A. & Silva, N. | Splenic sympathetic signaling is involved in the altered immune response to spinal cord injury | Cell symposia - Neuroimmune axis: in health and disease | September 22-24 | California, USA;
- 113) Morais N., et al. & Lima E. | The impact of millimetric residual stones after endourological procedures for treatment of kidney calculi: a retrospective analysis | American Urological Association annual meeting | May 3-6 | Chicago, USA;
- 114) Moreira P., Marques P., Coelho A., Costa P, Macoveanu J., Siebner R., Sousa N. & Morgado P. | Dissociation between striatal volume and risky decision-making in OCD | Neuroscience 2019, Annual Meeting for SFN | October 19-23 | Chicago IL, USA)
- 115) Morgado P. | Anomalías de la neuroplasticidad en la enfermedad obsesivo-compulsiva | XXII Congreso Nacional de Psiquiatría | September 26-28 | Bilbao, España;
- 116) Nascimento D., Caetano I., Viana J., Guerra-Gomes S., Dunphy J., Haydon P. & Oliveira J. | MiniSOG: temporal and spatial control over astrocyte exocytosis | International Astrocyte School | April 7-13 | Bertinoro, Italy;

- 117) Neves S., Guerra-Gomes S., Sousa N., Oliveira J., Palha J., Cerqueira J. & Marques F. | Experimental Autoimmune Encephalomyelitis induction in a model of impaired IP3-dependent astrocytic Ca²⁺ signaling | XIV European Meeting on Glial Cells in Health and Disease | July 10-13 | Porto, Portugal;
- 118) Neves S., Serre-Miranda C., Roque S., Nobrega C., Correia-Neves M., Correia-Sousa J., Sousa N., Palha J., Cerqueira J. & Marques F. | Immune thymic profile of the MOG-induced experimental autoimmune encephalomyelitis mouse model | 5th International Porto Congress of Multiple Sclerosis | February 14-16 | Porto, Portugal;
- 119) Neves-Carvalho A., Duarte-Silva S., Silva J., Almeida B., Heetveld S., Sotiropoulos I., Heutink P., Li K., Maciel P. | Regulation of neuronal mRNA splicing and Tau isoform ratio by ATXN3 through deubiquitylation of splicing factors | 2019 International Ataxia Research Conference (IARC)|November 14-16 |Washington, USA;
- 120) Neves-Carvalho A., Mendes-Pinheiro B., Correia S., Pires J., Duarte-Silva S., Monteiro S., Teixeira F., Lima R., Silva N., Salgado AJ., Maciel P. | Pre-clinical study of mesenchymal stem cells transplantation and their secretome administration in an animal model of Spinocerebellar ataxia type 3 | 2019 International Ataxia Research Conference (IARC)|November 14-16 | Washington, USA, USA;
- 121) Neves-Carvalho A., Mendes-Pinheiro B., Correia S., Pires J., Duarte-Silva S., Monteiro S., Teixeira F., Lima R., Silva N., Salgado AJ., Maciel P. | Testing the therapeutic potential of mesenchymal stem cells and their secretome in an animal model of SCA3 | EMBO Workshop: From genes to circuits in health and disease | February 4-7 | Bangalore, India;
- 122) Neves-Carvalho A., Palarz K., Duarte-Silva S., Khodakhah K. & Maciel P. | Study of Cerebellar circuits (dys)function in Spinocerebellar Ataxia type 3 | EMBO Workshop: From genes to circuits in health and disease | February 4-7 | Bangalore, India;
- 123) Nunes A., Ferreira H., Neves N., Baltazar F. & Granja, S. | Targeting Cancer Cell Metabolism Using Targeted Drug Delivery Systems | 26th Porto Cancer Meeting and 5th Joint Meeting Porto-Bordeaux | May 1-3 | Porto, Portugal;
- 124) Nunes A., Ferreira H., Neves N., Baltazar F., Granja S. | Disruption of cancer cell metabolism using targeted drug delivery systems | 6th Annual ISCaM Meeting 2019| October 17-19 | Braga, Portugal;
- 125) Oliveira C., Granja S., Longatto A., Campos P., Stefano J., Martins-Filho S., Chagas A., Herman P., Alvares-Filho, M., Carrilho F., Baltazar F. & Alves V. | Metabolic characterization of

hepatocellular cancer cells related to nonalcoholic fatty liver disease? | NAFLD SUMMIT 2019
| September 26-28 | Sevilha, Spain;

- 126) Oliveira O., Ribeiro A., Krainski E., Rito T., Correia-Neves M. & Duarte R. | Spatial patterns and hotspots of multidrug-resistant tuberculosis in Portugal | MycoPorto 2019 | September 19-20 | Porto, Portugal;
- 127) Oliveira O., Ribeiro A., Krainski E., Rito T., Correia-Neves M. & Duarte R. | Using Bayesian spatial models to map and to identify geographical hotspots of multidrug-resistant tuberculosis in Portugal | ESCAIDE (European Scientific Conference on Applied Infectious Disease Epidemiology) | November 27-29 | Stockholm, Sweden;
- 128) Oliveira S., Esteves S., Duarte-Silva S., Cunha-Garcia D., Costa M., Teixeira-Castro A., Maciel P. | Preclinical evidence supporting serotonergic modulation as a therapeutic approach for Spinocerebellar Ataxia 3" | AD/PD 2019, the 14th International Conference on Alzheimer's and Parkinson's Diseases | March 26-31 | Lisboa, Portugal;
- 129) Oliveira S., Esteves S., Duarte-Silva S., Cunha-Garcia D., Maciel P., Teixeira-Castro A. | Early modulation of serotonergic signaling suppresses aggregation in Spinocerebellar Ataxia 3 | Workshop on "Strategies & tools for modulating pathologic protein self-assembly in proteinopathies" | March 21-22 | Porto, Portugal;
- 130) Oliveira TG., Sousa N., Shelanski M., Grunwald G., Correia-Neves M. & Palha J. | Building an MD/PhD program as a scientific hub to promote biomedical research | Orpheus Conference – 2019 | March 21-23 | Dublin, Ireland;
- 131) Oliveira-Pinto S., Pontes O Proença F., Baltazar F. & Costa M. | Chromene-based molecules as targeted inhibitors for renal cell cancer therapy | ICVS Open Week | April 12 | Braga, Portugal;
- 132) Oliveira-Pinto S., Pontes O., Sampaio-Marques B., Ludovico P., Proença F., Baltazar F. & Costa M. | Chromene-based compounds as candidates for renal cell cancer treatment | RICT2019 - 55th International Conference on Medicinal Chemistry | July 3-5 | Nantes, France;
- 133) Oliveira-Pinto S., Pontes O., Sampaio-Marques B., Ludovico P., Proença F., Baltazar F. & Costa M. | Biological activity of novel targeted inhibitors for renal cell cancer therapy | 26th Porto Cancer Meeting and 5th Joint Meeting Porto-Bordeaux | May 1-3 | Porto, Portugal;
- 134) Oliveira-Pinto S., Pontes O., Sampaio-Marques B., Ludovico P., Proença F., Baltazar F. & Costa M. | New molecules based on chromene moiety as candidates for renal cell carcinoma

therapy | 1º Encontro Nacional de Jovens Investigadores em Oncologia | September 10 | Porto, Portugal;

- 135) Pereira H., Sampaio-Marques B. & Ludovico P. | Druggability of the ubiquitin system: which road to take | Ubicode annual symposium 2019| February 27 | Lisbon, Portugal;
- 136) Pereira H., Sampaio-Marques B. & Ludovico P. | Mechanistic links between proteasome, aging and age-related diseases modelled in yeast | 11th Symposium on Metabolism | October 30 | Porto, Portugal;
- 137) Pereira H., Sampaio-Marques B. & Ludovico P. | Uncovering the molecular mechanisms that tie autophagy and UPS during ageing | 11th Symposium on Metabolism | October 30 | Porto, Portugal;
- 138) Pereira I., Marote A., Salgado AJ. & Silva N. | Generation of human spinal cord Neural Stem Cells to repair Spinal Cord Injury | 1st Minho Meeting on Spinal Cord Injury 2019|July 15 | Braga, Portugal;
- 139) Pereira J., Trocado V., Gomes M., Silva S., Carvalho A., Pinheiro P. & Nogueira-Silva C. | Parto instrumentado – Como estamos na formação em Portugal? |V Congresso Nacional de Obstetrícia e Medicina Materno-Fetal| November 28-30 | Figueira da Foz, Portugal;
- 140) Pereira-Mendes J., Guimarães M., Cunha A., Esteves M., Sousa N., Almeida A. & Leite-Almeida H. | Chronic pain effect on social behaviors in rats | XVI Meeting of the Portuguese Society for Neuroscience (SPN) | May 30 - June 1 | Lisboa, Portugal;
- 141) Pereira-Sousa J., Jalles A., Vilasboas-Campos D., Ferreira-Lomba B., Da Silva J., Varney M., Newman-Tancredi A., Maciel P. & Teixeira-Castro A. | Targeting of the serotonin (1A) receptor suppresses mutant ataxin-3 pathogenesis in C. elegans | 2019 International Ataxia Research Conference (IARC) | Washington, USA;
- 142) Pereira-Sousa J., Lomba B., Varney M., Newman-Tancredi A., Teixeira-Castro A. & Maciel P. | NLX-112, a novel 5-HT1A receptor agonist, suppresses pathogenesis of mutant ATXN3 in C. elegans | Workshop on "Strategies & tools for modulating pathologic protein self-assembly in proteinopathies" | March 21-22 | Porto, Portugal;
- 143) Pereira-Sousa J., Lomba B., Varney M., Newman-Tancredi A., Teixeira-Castro A. & Maciel P. | NLX-112, a novel 5-HT1A receptor agonist, suppresses pathogenesis of mutant ATXN3 in C. elegans | | AD/PD 2019, the 14th International Conference on Alzheimer's and Parkinson's Diseases| March 26-31 | Lisboa, Portugal;

- 144) Pereira-Vieira J., Granja S., Barbosa-Matos C., Ko Y., Preto A., Casal M. & Baltazar F. | 3-Bromopyruvate sensitizes Acute Myeloid Leukemia cell lines to chemotherapy | 26th Porto Cancer Meeting and 5th Joint Meeting Porto-Bordeaux | May 1-3 | Porto, Portugal;
- 145) Picó-Pérez M., Moreira P., Costa P., Sousa N., Soriano-Mas C. & Morgado P. | A meta-analytic connectivity modelling and functional decoding study of emotional processing in OCD | 25th Organization for Human Brain Mapping (OHBM) Annual Meeting | June 9-13 | Rome, Italy;
- 146) Picó-Pérez M., Moreira P., Ferreira V., Radua J., Sousa N., Soriano-Mas, C. & Morgado P. | Common structural grey matter and functional activation abnormalities in obsessive-compulsive disorder: a meta-analytic investigation | 32nd ECNP Congress | September 7-10 | Copenhagen, Denmark;
- 147) Pinheiro M., Freitas M., Cardoso-Carneiro D., Cunha A., Granja S. & Martinho O. | Role of RKIP protein in the modulation of cancer cells metabolism in solid tumors | 6th Annual ISCaM Meeting 2019 | October 17-19 | Braga, Portugal;
- 148) Pinho A., Lima R., Gomes E., Silva D., Cibrão J., Serra S., Silva N., Monteiro S., Salgado A. | Immunomodulatory and regenerative effect of adipose tissue derived stem cell exosomes on spinal cord injury | XVI Meeting of the Portuguese Society for Neuroscience (SPN) | May 30 - June 1 | Lisboa, Portugal;
- 149) Pinho A., Lima R., Gomes E., Silva D., Cibrão J., Serra S., Silva N., Monteiro S., Salgado A. | Impact of the proteic and vesicular secretome of adipose tissue derived stem cells in spinal cord injury | 11th International Meeting of the Portuguese Society for Stem cells and Cell Therapies | October 10-12 | Lisboa, Portugal;
- 150) Pinto L. | Genetic and Epigenetic factors that modulate stress-induced Neuro- and Glioplasticity in an animal model of Depression | Symposium on Animal Models of Affective Disorders, Ruhr-University of Bochum | March 29 | Bochum, Germany;
- 151) Pinto L. | Glial plasticity as a key mechanism underlying the pathophysiology of depression. | 7th Mediterranean Neuroscience Conference | June 23-27 | Marrakech, Marocco;
- 152) Pinto L. | Time-dependent functional correlates of adult hippocampal cytogenesis: Relevance to Depression | Eurogenesis 4th Meeting | June 11-13 | Bordeaux, France;
- 153) Pontes O., Costa M., Oliveira-Pinto S., Proença F. & Baltazar F. | Chromene derivatives: a new strategy to overcome renal cancer resistance | 6th Annual ISCaM Meeting 2019 | October 17-19 | Braga, Portugal;

- 154) Pontes O., Gonçalves C., Duarte-Silva S., Sampaio-Marques B., Bessa C., Ludovico P., Costa B., Maciel P., Proença F., Baltazar F. & Costa M. | New chromene derivatives: unravelling the molecular mechanisms for breast cancer treatment | 13th Biological and Medicinal Chemistry Postgraduate Symposium | December 13 | Cambridge, United Kingdom;
- 155) Pontes O., Sampaio-Marques B., Duarte-Silva S., Bessa C., Ludovico P., Maciel P., Baltazar F., Proença F. & Costa M. | Exploitation of novel chromene derivatives for breast cancer treatment | 1º Encontro Nacional de Jovens Investigadores em Oncologia | September 10 | Porto, Portugal;
- 156) Pontes O., Sampaio-Marques B., Duarte-Silva S., Bessa C., Ludovico P., Maciel P., Baltazar F., Proença F. & Costa M. | New chromene derivatives: Unraveling the molecular mechanisms for breast cancer therapy | RICT2019 - 55th International Conference on Medicinal Chemistry | July 3-5 | Nantes, France;
- 157) Pontes O., Sampaio-Marques B., Duarte-Silva S., Bessa C., Ludovico P., Maciel P., Baltazar F., Proença F., Baltazar F. & Costa M. | In vitro and in vivo evaluation of new chromene derivatives as potent anticancer agents | 26th Porto Cancer Meeting and 5th Joint Meeting Porto-Bordeaux | May 1-3 | Porto, Portugal;
- 158) Queirós S., Gao H., Santis G., Papachristidis A., Fonseca J., Vilaça J. & D'hooge J. | Three-dimensional color Doppler ultrasound simulation mimic paravalvular regurgitation | SPIE Medical Imaging Conference | February 16-21 | San Diego, USA;
- 159) Queirós S., Morais P., Fonseca J., D'hooge J. & Vilaça J. | Semi-automatic aortic valve tract segmentation in 3D cardiac magnetic resonance images using shape-based B-spline Explicit Active Surfaces | SPIE Medical Imaging Conference | February 16-21 | San Diego, USA;
- 160) Queirós S., Morais P., Pereira C., Baptista M., Rodrigues N., D'hooge J., Barbosa D. & Vilaça J. | Automatic left ventricular segmentation in 4D interventional ultrasound data using a patient-specific temporal synchronized shape prior | SPIE Medical Imaging Conference | February 16-21 | San Diego, USA;
- 161) Raposo M., Melo A., Vilasboas-Campos D., Ferreira A., Vasconcelos J., Alonso I., Silva P., Bettencourt C., Houlden H., Sequeiros J., Heutink P., Maciel. & Lima M. | Identification of novel genetic modifiers of Machado-Joseph disease (MJD/SCA3) using whole-exome sequencing | International Machado-Joseph Research Disease Conference | November 12-13 | Washington, USA;

- 162) Raquel-Cunha A., Pinheiro J., Cardoso-Carneiro D., Gabriela-Freitas M., Reis R. & Martinho O. | RKIP protein as a novel predictor of EGFR targeted therapies in lung cancer | 3rd Annual Meeting CINBIO “From bench to bedside: diagnosis, therapy & data analysis” | July 1-2 | Vigo, Spain;
- 163) Ribeiro J., Malta M. & Sousa H. | Epstein-barr virus is absent in gastric superficial neoplastic lesions: a retrospective study | 22 ESCV Congress 2019 | September 11-14 | Copenhagen, Denmark;
- 164) Rocha D., Magalhães C., Cá B., Ramos H., Carvalho T., Guimarães J., Saraiva M. & Osório N. | Phenotypical and molecular characterization of streptomycin-resistant M. tuberculosis clinical isolates from a Portuguese cohort | ESM 40th Annual Congress | June 30 - July 3 | Valencia, Spain;
- 165) Rocha L., Gomes E., Silva N., Sousa R., Learmonth D. & Salgado AJ. | Developing a vascularization strategy using adipose tissue stem cells and biodegradable hydrogels to enhance recovery following spinal cord injury | 5th International Spinal Cord Repair Meeting | December 14 | Barcelona, Spain;
- 166) Rocha L., Gomes E., Sousa R., Learmonth D. & Salgado AJ. | A co-culture system based on ASCs and HUVECs in GRGDS-modified gellan gum to promote neurite outgrowth and vascularization | TERMIS EU 2019 | May 28 | Rhodes, Greece;
- 167) Rocha L., Gomes E., Sousa R., Learmonth D. & Salgado AJ. | Exploring the interactions between ASCs and HUVECs to promote neurite outgrowth in DRG explants | 5th International Symposium in Peripheral Nerve Regeneration | July 8 | Porto, Portugal;
- 168) Rodrigues AJ. | Nucleus accumbens circuits in reward (and aversion) | 7th Mediterranean Neuroscience Conference 2019 | June 23-27 | Marrakesh, Morocco;
- 169) Rodrigues AJ. | Role of different laterodorsal tegmentum to nucleus accumbens inputs in reward | Neuroscience 2019, Annual Meeting for SFN | October 19-23 | Chicago, USA;
- 170) Rodrigues AJ. | Stress impact on microglia (and neurons): gender differences and behavioral implications | EBPS Biennial Meeting | August 28-31 | Braga, Portugal;
- 171) Rodrigues B., Portugal-Nunes C., Castanho T., Amorim L., Sousa N. & Santos N. | The mediterranean diet effects on cognition and well-being | Healthy Ageing – Next Generation of Challenges | PANINI Co-creation Event | June 26 | Birmingham, United Kingdom;

- 172) Rodrigues D., Jacinto L., Sousa N. & Monteiro P. | Cell type specific impact of chronic stress in striatum neurons | Neuroscience 2019, Annual Meeting for SFN | October 19-23 | Chicago, USA;
- 173) Rodrigues N., Brito J., Torres H., Oliveira B., Borges J., Queirós S., Mendes J., Fonseca J. & Coelho V. | Top-down human pose estimation with depth images and domain adaptation | 14th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP) | February 25-27 | Prague, Czech Republic;
- 174) Sampaio-Marques B. & Ludovico P. | Proteostasis control during aging: lessons from yeast | 11th Symposium on Metabolism | October 30 | Porto, Portugal;
- 175) Sampaio-Marques B., Guedes A., Vasilevskiy I., Gonçalves S., Outeiro T., Winderickx J., Burhans W. & Ludovico P. | Alpha-synuclein induces DNA damage and autophagy degradation of ribonucleotide reductase 1 in yeast and human cells | COST Transautophagy: Annual Meeting 2019 | April 23-25 | Sofia, Bulgaria;
- 176) Sampaio-Marques B., Pereira H. & Ludovico P. | Dysregulation of genomic stability and autophagy in alpha-synuclein-driven toxicity | Proteostasis: From organelles to organisms, EMBO Workshop | November 15-19 | Ericeira, Portugal;
- 177) Sampaio-Marques B., Pereira O., Girão H. & Ludovico P. | Autophagy signalling and metabolism regulation in acute myeloid leukemia | Proteostasis: From organelles to organisms, EMBO Workshop | November 15-19 | Ericeira, Portugal;
- 178) Santos N., Baltazar F., Costa S. & Granja S. | Targeting lactate transport for immunotherapy | 26th Porto Cancer Meeting and 5th Joint Meeting Porto-Bordeaux | May 1-3 | Porto, Portugal;
- 179) Santos N., Bessa J., Morgado P., Santos A., Costa M., Cerqueira J., Sousa N. & Leão C. | The "Vertical Domains" at the University of Minho Medical Course: a longitudinal experience of student immersion in humanities applied to clinical practice | AMEE | August 24-28 | Viena, Austria;
- 180) Santos N., Monteiro P., Mogado P., Bessa J. & Leão C | Advanced training in research integrity and bioethics (tRIBE): neuroscience case studies as a training tool for ethical reflective learning | ICONE - 5th International Conference on Neuroethics 2019 | September 16-17 | Lisboa, Portugal;

- 181) Santos-Pereira A., Correia J., Rocha M. & Osório N. | SPINET (Syndemic Protein Interaction NETwork): a web server for HIV, M. tuberculosis and host protein-protein interaction networks | Bioinformatics Open Days | February 20-22| Braga, Portugal;
- 182) Santos-Pereira A., Correia J., Rocha M. & Osório N. | Unveiling the synergistic mechanisms of M. tuberculosis and HIV-1 through SPINET, a protein-protein interaction network analysis tool | European Society of Mycobacteriology Annual Meeting | June 30 - July 3 | Valencia, Spain;
- 183) Sarabando R., Borges A., Sousa D., Vieira A., Bivar L., Ribeiro B., Igreja J., Miranda A., Barbosa P., Cerqueira M., Reis I. & Nogueira-Silva C. | Which factors may influence women's satisfaction and preferences in future mode of delivery? | 27th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI)| November 21-23 Paris, France;
- 184) Sarabando R., Sousa D., Borges A., Casteleiro M., Vasconcelos R., Nogueira-Silva C. & Reis I. | Haverá lugar para antibioterapia profilática de rotina no parto instrumentado? | V Congresso Nacional de Obstetrícia e Medicina Materno-Fetal | November 28-30| Figueira da Foz, Portugal;
- 185) Sarabando R., Sousa D., Borges A., Miranda A., Nogueira-Silva C., Rocha A., & Reis I. | Fatores de risco para patologia endometrial e relação com malignidade | 193ª Reunião da Sociedade Portuguesa de Ginecologia| June 6-8 | Carvoeiro, Portugal;
- 186) Silva H., Castro I., Sousa R., Sousa H., Sampaio-Marques B. & Ludovico P. | Integration of lipid metabolism with Krebs cycle in acute myeloid leucemia | 6th Annual ISCaM Meeting 2019|October 17-19| Braga, Portugal;
- 187) Silva J. & Sotiropoulos I. |Chronic stress as a precipitating factor in Alzheimer's Disease brain pathology: from synapses to networks | FENS Regional Meeting | July 10-13 | Belgrade, Serbia;
- 188) Silva J., Duarte-Silva S., Neves-Carvalho A., Raposo M., Soares-Cunha C., Correia, J., Nogueira-Gonçalves G., Oliveira S., Teixeira-Castro A. & Maciel P. | A Glucorticoid receptor-dependent mechanism of bile acid action with therapeutic impact in polyglutamine disease | International Society for Neurochemistry | August 4-8 | Montreal, Canada;
- 189) Silva J., Gomes P., Pego JM., Leite-Sousa H., Sousa N. & Sotiropoulos I. | Molecular mechanisms of post-anesthesia cognitive deficits and Tau protein | EBPS Biennial Meeting | August 28-31 | Braga, Portugal;

- 190) Silva J., Rodrigues S., Marques M., Gomes P., Neves-Carvalho A., Soares-Cunha C., Takashima A., Ludovico P., Takashima A., Wolozin B., Sousa N. & Sotiropoulos I. | Dysregulation of autophagy and stress granule-related proteins in stress-driven Tau pathology | 2019 ISN-ASN Meeting | August 4-8 | Montreal, Canada;
- 191) Silva V., Ramos F., Costa S., Brás F., Santos R., Dantas S. & Miguelote R. | Zona juncional: Estudo ecográfico transvaginal 3D em mulheres com infertilidade | 7º Congresso Português de Medicina da Reprodução | May 9-11 | Porto, Portugal;
- 192) Silva-Gomes R., Marina M., Stravalaci M., Fontanini A., Mattiola I., Cunha C., Carvalho A., Locati M., Oliveira M., Bottazzi B. & Mantovani A. | Role of the tetraspan MS4A4A on macrophage-mediated immune responses to pathogens and tumor growth | II Joint Meeting of the German Society for Immunology (DGfI) and the Italian Society of Immunology, Clinical Immunology and Allergology (SIICA) | September 10-13 | Munich, Germany;
- 193) Silva-Ribeiro T., Coelho E., Genisheva Z., Oliveira J., Carvalho P., Correia-Pinto J., Sampaio P. & Moura RS. | Electronic cigarette aerosol: impact on embryonic lung morphology | 14th Young European Scientists (YES) meeting | September 12-15 | Porto, Portugal;
- 194) Sotiropoulos, I. | Stress granules and Tau protein interplay in stress-driven brain pathology: implication for Alzheimer and depression disorders | 32nd ECNP Congress | September 7-10 | Copenhagen, Denmark;
- 195) Sotiropoulos, I. | Endolysosomal sorting and degradation of Tau protein and its role in stress-driven hippocampal malfunction | AD/PD 2019, the 14th International Conference on Alzheimer's and Parkinson's Diseases | March 26-31 | Lisbon, Portugal;
- 196) Sotiropoulos, I. | Tau therapeutics in and beyond Alzheimer's disease | 7th Mediterranean Neuroscience Conference 2019 | June 23-27 | Marrakesh, Morocco;
- 197) Sotiropoulos, I. | Tau-dependent and -independent mechanisms of adult cytogenesis suppression in stress-driven brain pathology | 4th Eurogenesis Conference | June 11-13 | Bordeaux, France;
- 198) Sousa D., Borges A., Sarabando R., Correia C., Nogueira-Silva C. & Reis I. | Investigação clínica no internato: a realidade da especialidade de Ginecologia e Obstetrícia em Portugal | V Congresso Nacional de Obstetrícia e Medicina Materno-Fetal | November 28-30 | Figueira da Foz, Portugal;
- 199) Sousa D., Borges A., Sarabando R., Ribeiro B., Afonso H., Rocha A., Reis I. & Nogueira-Silva C. | Uterine bleeding in postmenopausal women – The role of hysteroscopy | 27th World

Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI)| November 21-23| Paris, France;

- 200) Sousa D., Borges A., Sarabando R., Ribeiro B., Bivar L., Vieira A., Igreja J., Miranda A., Barbosa P., Cerqueira M., Reis I. & Nogueira-Silva C. | Postpartum sexual dysfunction in portuguese women - a prospective study | 27th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI)| November 21-23 | Paris, France;
- 201) Sousa D., Sarabando R., Borges A., Miranda A., Nogueira-Silva C., Rocha A. & Reis I. | Papel da histeroscopia e biópsia endometrial na avaliação do espessamento endometrial em mulheres pós-menopausa | 193ª Reunião da Sociedade Portuguesa de Ginecologia| June 6-8 | Carvoeiro, Portugal;
- 202) Sousa D., Sarabando R., Borges A., Miranda A., Nogueira-Silva C., Rocha A. & Reis I. | Acuidade da ecografia ginecológica e histeroscopia no diagnóstico de patologia do endométrio | 193ª Reunião da Sociedade Portuguesa de Ginecologia| June 6 – 8 | Carvoeiro, Portugal;
- 203) Sousa H., Sampaio-Marques B., Fernandes A., Castro I., Perez J. & Ludovico P. | Clinical Implications of the Autophagy Core Gene Variations in Acute Myeloid Leukemia | 6th Annual ISCaM Meeting 2019|October 17-19| Braga, Portugal;
- 204) Souto B., Araújo P., Santos-Pereira A., Triunfante V., Martins J. & Osório N. | Epidemiologia da resistência antirretroviral do HIV-1 no brasil entre 2008 e 2017 | XII Congresso da Sociedade Brasileira de DST, VIII Congresso Brasileiro de AIDS e III Congresso Latino Americano IST/HIV/AIDS | September 22-25 | Foz do Iguaçu, Brazil;
- 205) Souto B., Triunfante V., Araújo P., Santos-Pereira A., Martins J. & Osório N. | Epidemiologia molecular do HIV-1 no Brasil: elevada prevalência do subtipo C na região Sul | XII Congresso da Sociedade Brasileira de DST, VIII Congresso Brasileiro de AIDS e III Congresso Latino Americano IST/HIV/AIDS | September 22-25 | Foz do Iguaçu, Brazil;
- 206) Speck N., Scopin A., Longatto-Filho A., Tso F., Munari, F., Ribalta J., Porto C. & Focchi G. | Uterine Cervical Cancer Screening Evaluation in Xingu Indigenous Park | ASCCP2019 Annual Scientific Meeting on Anogenital and HPV-Related Diseases | April 4-7 | Atlanta, USA;
- 207) Tavares A. & Sousa H. | high prevalence of high-risk hpv infection in university students from the northeast region of Portugal using self-sampling | 22 ESCV Congress 2019 | | September 11-14 | Copenhagen, Denmark;
- 208) Teixeira F., Faria H., Domingues A., Freitas E., Mendes-Pinheiro B., Marques R., Barata S, Lima R., Serra S. & Salgado A. | Stem Cells Secretome Combined with Pharmacotherapies as a

Multimodal Strategy for Parkinson's Disease Regenerative Medicine | TERMIS AP Congress 2019 | October 14-17 | Brisbane, Australia;

- 209) Teixeira-Castro A., Pereira-Sousa J., Ferreira-Lomba B., Oliveira S. & Maciel P. | Suppression of proteotoxicity by serotonergic signaling activation | Workshop on Strategies and Tools for modulating pathological protein self-assembly in proteinopathies 2019 | March 21-22 | Porto, Portugal.
- 210) Teixeira-Castro A., Pereira-Sousa J., Ferreira-Lomba B., Oliveira S. & Maciel P. | Serotonergic signaling activation suppresses proteotoxicity | International Machado-Joseph Research Disease Conference | November 12-13 | Washington, USA;
- 211) Timóteo M., Ribeiro J., Malta M., Medeiros R. & Sousa H. | MDM2 regulation of p53 in epstein-barr virus associated gastric cancer (preliminar study) 22 ESCV Congress 2019 | September 11-14 | Copenhagen, Denmark;
- 212) Torrado, E. | Impact of the inflammatory environment in the protective CD4 T cell response to Mycobacterium tuberculosis infection | MycoPorto 2019 | September 19-20 | Porto, Portugal;
- 213) Torres F., Lopes F., Beleza P., Rouleau G. & Maciel P. | FERMT2, um novo gene de epilepsia? | 31º Encontro Nacional de Epileptologia | March 8-9 | Porto, Portugal;
- 214) Torres J., et al. & Lima E. | Analgesic Strategy For Transrectal Ultrasound-Guided Prostate Biopsy: A Prospective Study | American Urological Association anual meeting | May 3-6 | Chicago, USA;
- 215) Torres J., et al. & Lima E. | Percutaneous nephrostomy vs ureteral stent for hydronephrosis secondary to ureteric calculi: impact on spontaneous stone passage and health-related quality of life – a prospective study | American Urological Association Anual Meeting | May 3-6 | Chicago, USA;
- 216) Torres, H., Oliveira B., Fonseca J., Queirós S., Borges J., Rodrigues N., Coelho V., Pallauf J., Brito J. & Mendes J. | Real-time human body pose estimation for in-car depth images | Doctoral Conference on Computing, Electrical and Industrial Systems (DOCEIS 2019) | May 8-10 | Costa de Caparica, Portugal;
- 217) Triquell S., Martínez-Zalacaín I., Boedhoe S., Morgado P., Alonso P., Soriano-Mas C. et al. | Prefrontal cortical thickness is associated with response to cognitive-behavioural therapy in children and adolescents with OCD | 32nd ECNP Congress | September 7-10 | Copenhagen, Denmark;

- 218) Trocado V., Moura C., Silva J., Costa S., Miranda A. & Nogueira-Silva C. | Localização placentar e desfechos obstétricos, fetais e neonatais: Uma revisão sistemática | V Congresso Nacional de Obstetrícia e Medicina Materno-Fetal | November 28-30 | Figueira da Foz, Portugal;
- 219) Veiga, M. | Antimicrobial resistance: the molecular mechanism behind it | XV Congreso Internacional de Investigación Científica (XV CIC) | June 5-8 | Santo Domingo, Dominican Republic;
- 220) Veiga, M. | Defining drug resistance pathways in the malaria parasite | Instituto de Investigação em Biomateriais, Biodegradáveis e Biomiméticos (i3Bs) AvePark - Parque de Ciência e Tecnologia | February 8 | Guimarães, Portugal;
- 221) Veiga, M. | Fatores genéticos do parasita da malária relevantes na resposta aos fármacos | I Jornadas da Ciência, University of Minho | March 13 | Braga, Portugal;
- 222) Veiga, M. | Progress of molecular diagnosis to detect malaria disease | Conferencia Molecular Diagnosis On Infection Diseases: Molecular approaches in Malaria | February 26 | Santo Domingo, Dominican Republic;
- 223) Vieira N. | Basic mechanisms of disease (III): the Sorting machinery of the cell | Advanced course on Pathogenesis of neurodegenerative diseases - finding a common ground | April 1 | Braga, Portugal;
- 224) Vieira N., Roque S., Miranda C., Bessa C., Rodrigues AJ., Marques P., Chan F., de Carvalho A., Hong W. Correia-Neves M., & Sousa N. | Unveiling Sorting Nexins role in the nervous system | 7th Mediterranean Neuroscience Conference | June 23-27 | Marrakech, Morocco;
- 225) Vieira N., Roque S., Miranda C., Bessa C., Rodrigues AJ., Marques P., Chan F., de Carvalho A., Hong W. Correia-Neves M., & Sousa N. | Sorting out Sorting Nexins role in cognition, and the modulator effect of stress | XVI Meeting of the Portuguese Society for Neuroscience (SPN) | May 30 - June 1 | Lisbon, Portugal;
- 226) Vilaça-Faria H., Domingues A., Mendes-Pinheiro B., Pinho A., Campos J., Salgado A. & Teixeira F. | Mesenchymal Stem Cells Secretome-Derived Exosomes: Biological Nanovesicles for the Treatment of Parkinson's Disease? | XVI Meeting of the Portuguese Society for Neuroscience (SPN) | May 30 – June 1 | Lisbon, Portugal.

D. Publications in scientific journals (Original full papers, reviews, Proceedings; Letters...)

- 1) Antunes, D., Cunha, C., & Carvalho, A. (2019). Genetic regulation of the host-fungus interaction in the pathogenesis of aspergillosis. *Current Fungal Infection Reports*, 13(3), 77-85. doi:10.1007/s12281-019-00344-8;
- 2) Araújo, A. M. S. D., Teixeira, P., Hespanhol, V., & Correia-de-Sousa, J. (2019). Discordance between old and new criteria for stratifying patients with COPD. *Journal Brasileiro de Pneumologia*, 45(6), e20190183. doi:10.1590/1806-3713/e20190183;
- 3) Araújo, A. M., Leite, C., Costa, P., & Costa, M. J. (2019). Early identification of first-year students at risk of dropping out of high-school entry medical school: the usefulness of teachers' ratings of class participation. *Advances in Health Sciences Education*, 24(2), 251-268. doi: 10.1007/s10459-018-9863-9;
- 4) Araújo, P. M. M., Carvalho, A., Pingarilho, M., BEST-HOPE study group, Abecasis, A. B., & Osório, N. S. (2019). Characterization of a large cluster of HIV-1 A1 infections detected in Portugal and connected to several Western European countries. *Scientific Reports*, 9(1), 7223. doi:10.1038/s41598-019-43420-2;
- 5) Araujo, P. M. M., Martins, J. S., & Osorio, N. S. (2019). SNAPPy: A snakemake pipeline for scalable HIV-1 subtyping by phylogenetic pairing. *Virus Evolution*, 5(2). doi:10.1093/ve/vez050;
- 6) Arieira, C., Boal Carvalho, P., Dias De Castro, F., & Cotter, J. (2019). Esophagogastroduodenoscopy Findings in Patients on the Waiting List for Bariatric Surgery. *GE Portuguese Journal of Gastroenterology*, 26(6), 389-395. doi:10.1159/000495770;
- 7) Arieira, C., de Castro, F. D., Carvalho, P. B., & Cotter, J. (2019). Primary colon mantle lymphoma: a misleading macroscopic appearance! *Revista Espanola De Enfermedades Digestivas*, 111(12), 965-967. doi:10.17235/reed.2019.6405/2019;
- 8) Arieira, C., Magalhães, R., Dias de Castro, F., Boal Carvalho, P., Rosa, B., Moreira, M. J., & Cotter, J. (2019). CECDALic—a new useful tool in pan-intestinal evaluation of Crohn's disease patients in the era of mucosal healing. *Scandinavian Journal of Gastroenterology*, 54(11), 1326-1330. doi:10.1080/00365521.2019.1681499;
- 9) Arieira, C., Monteiro, S., Dias de Castro, F., Boal Carvalho, P., Rosa, B., Moreira, M. J., & Cotter, J. (2019). Capsule endoscopy: Is the software TOP 100 a reliable tool in suspected small bowel bleeding? *Digestive and Liver Disease*, 51(12), 1661-1664. doi:10.1016/j.dld.2019.06.008;
- 10) Arieira, C., Monteiro, S., Xavier, S., Dias de Castro, F., Magalhães, J., Marinho, C., . . . Cotter, J. (2019). Transient elastography: should XL probe be used in all overweight patients?

- 11) Arieira, C., Monteiro, S., Xavier, S., Dias De Castro, F., Magalhães, J., Moreira, M. J., . . . Cotter, J. (2019). Hepatic steatosis and patients with inflammatory bowel disease: When transient elastography makes the difference. *European Journal of Gastroenterology and Hepatology*, 31(8), 998-1003. doi:10.1097/MEG.0000000000001319;
- 12) Ashraf, N. S., Duarte-Silva, S., Shaw, E. D., Maciel, P., Paulson, H. L., Teixeira-Castro, A., & Costa, M. C. (2019). Citalopram Reduces Aggregation of ATXN3 in a YAC Transgenic Mouse Model of Machado-Joseph Disease. *Molecular Neurobiology*, 56(5), 3690-3701. doi: 10.1007/s12035-018-1331-2;
- 13) Assunção-Silva, R., Gomes, E., Silva, N. & Salgado, A. J. (2019). Nanoengineered Biomaterials for Spinal Cord Injury Regeneration. In M. Mozafri, J. Rajadas & D. Kaplan (Eds.), *Nanoengineered Biomaterials for Regenerative Medicine* (Chap.8, pp. 167-185). doi:10.1016/B978-0-12-813355-2.00008-9;
- 14) Azevedo, A., Viana, C., Costa, A. C., & Martins, S. F. (2019). Computed tomography enterography or magnetic resonance enterography in Crohn's disease - which to choose?. *Journal of Coloproctology*, 39(1), 9-14. doi:10.1016/j.jcol.2018.09.003;
- 15) Azevedo, O., Marques, N., Craveiro, N., Pereira, A. R., Antunes, H., Reis, L., . . . Miltenberger-Miltenyi, G., Sousa, N., & Cunha, D. (2019). Screening for Fabry disease in patients with left ventricular noncompaction. *Revista Portuguesa de Cardiologia*, 38(10), 709-716. doi:10.1016/j.repc.2019.02.014;
- 16) Bacelo, E., Da Silva, M. A., Cunha, C., Faria, S., Carvalho, A., Reis, R. L., . . . Neves, N. M. (2019). Biofunctional nanofibrous substrate for local TNF-capturing as a strategy to control inflammation in arthritic joints. *Nanomaterials*, 9(4). doi:10.3390/nano9040567;
- 17) Barrière, D. A., Hamieh, A. M., Magalhaes, R., Traoré, A., Barbier, J., Bonny, J. M., Ardida, D., Busserolles, J., Mériaux, S., & Marchan, F. (2019). Structural and functional alterations in the retrosplenial cortex following neuropathic pain. *Pain*, 160(10), 2241-2254. doi:10.1097/j.pain.0000000000001610;
- 18) Barrière, D. A., Magalhães, R., Novais, A., Marques, P., Selingue, E., Geffroy, F., Marques, F., Cerqueira, J., Sousa, J. C., Boumezbeur, F., Bottlaender, M., Jay, T. M., Cachia, A., Sousa, N., & Mériaux, S. (2019). The SIGMA rat brain templates and atlases for multimodal MRI data analysis and visualization. *Nature Communications*, 10(1). doi:10.1038/s41467-019-13575-7;

- 19) Benedetto, R., Massicano, A., Crenshaw, B. K., Oliveira, R., Reis, R. M., da Rocha, E., Araújo, E. B., & Lapi, S. E. (2019). ⁸⁹Zr-DFO-cetuximab as a molecular agent to identify Cetuximab resistance in Head and Neck Squamous Cell Carcinoma. *Cancer Biotherapy and Radiopharmaceuticals*, 34(5), 288-296. doi:10.1089/cbr.2018.2616;
- 20) Bernal-Martínez, L., Alcazar Fuoli, L., Miguel-Revilla, B., Carvalho, A., Cuétara Garcia, M. S., Garcia-Rodriguez, J., Cunha, C., Gómez-García de la Pedrosa, E., & Gomez-Lopez, A. (2019). High resolution melting assay for genotyping variants of CYP2C19 enzyme: utility in predicting voriconazole effectiveness. *Antimicrobial Agents and Chemotherapy*, 63(6), e02399-18. doi:10.1128/AAC.02399-18;
- 21) Bernardo, M. O., Cecilio-Fernandes, D., Lima, A. R. D. A., Silva, J. F., Ceccato, H. D., Costa, M. J., & De Carvalho-Filho, M. A. (2019). Investigating the relation between self-assessment and patients' assessments of physicians-in-training empathy: A multicentric, observational, cross-sectional study in three teaching hospitals in Brazil. *BMJ Open*, 9(6). doi:10.1136/bmjopen-2019-029356;
- 22) Bordone, M., Salman, M., . . . Silva, J. M., . . . Yamazaki, R., & Seidenbecher, C. (2019). The energetic brain - A review from students to students. *Journal of Neurochemistry*, 151(2), 139-165. doi:10.1111/jnc.14829;
- 23) Bosnic-Anticevich, S., Costa, E., ... Correia de Sousa, J., ... Zuberbier, T., & Bousquet, J. (2019) ARIA pharmacy 2018 "Allergic rhinitis care pathways for community pharmacy". *Allergy*, 74(7), 1219-1236. doi: 10.1111/all.13701;
- 24) Bousquet, J. J., Schunemann, H. J., ... Correia de Sousa, J., ... Zidarn, M. & ARIA Study Goup; MASK Study Group (2019). Next-generation ARIA care pathways for rhinitis and asthma: a model for multimorbid chronic diseases. *Clinical and Translational Allergy*, 9(1). doi:10.1186/s13601-019-0279-2;
- 25) Bousquet, J., Hellings, P. W., ... Correia de Sousa, J., ... Zidarn, M., Zuberbier, T., & MASK Study Group (2019) Allergic Rhinitis and its Impact on Asthma (ARIA) Phase 4 (2019): Change management in allergic rhinitis and asthma multimorbidity using mobile technology. *The Journal of Allergy and Clinical Immunology*, 143(3), 864-879. doi: 10.1016/j.jaci.2018.08.049;
- 26) Brakema, E. A., van Gemert, F. A., ... de Sousa, J. C., ... Warren, L., & Williams S. (2019). COPD - origins in low-and-middle income countries: what are the implications of a false start?. *npj Primary Care Respiratory Medicine*, 29(1). doi:10.1038/s41533-019-0117-y;

- 27) Brakoulias, V., Starcevic, V., ... Morgado, P., ... Wang, Z. & Fineberg, N. A. (2019). Treatments used for obsessive–compulsive disorder - An international perspective. *Human Psychopharmacology-Clinical and Experimental*, 34(1), e2686. doi:10.1002/hup.2686;
- 28) Branco, M., Linhares, P., Carvalho, B., Santos, P., Costa, B. M., & Vaz, R. (2019). Serum lactate levels are associated with glioma malignancy grade. *Clinical Neurology and Neurosurgery*, 186, 105546. doi:10.1016/j.clineuro.2019.105546;
- 29) Brown, P. RELISH Consortium (*including Costa, B.) & Zhou, Y. (2019). Large expert-curated database for benchmarking document similarity detection in biomedical literature search. *Database-the Journal of Biological Databases and Curation*. doi:10.1093/database/baz085;
- 30) Brucato, N., Fernandes, V., Kusuma, P., Černý, V., Mulligan, C. J., Soares, P., Rito, T., Fin, B., Boland, A., Deleuze, J.-F., Cox, M. P., Sudoyo, H., Stoneking, M., Pereira, L., & Ricaut, F.-X. (2019). Evidence of Austronesian genetic lineages in East Africa and South Arabia: complex dispersal from Madagascar and Southeast Asia. *Genome Biology and Evolution*, 11(3):748-758. doi:10.1093/gbe/evz028;
- 31) Caetano, A. C., Cunha, C., Arroja, B., Costa, D., & Rolanda, C. (2019). Role of a micronized purified flavonoid fraction as an adjuvant treatment to rubber band ligation for the treatment of patients with hemorrhoidal disease: A longitudinal cohort study. *Annals of Coloproctology*, 35(6), 306-312. doi:10.3393/ac.2018.09.18;
- 32) Café, A., Carvalho, M., Crato, M., Faria, M., Kjollerstrom, P., Oliveira, C., Pinto, P. R., Salvado, R., Santos, A. A., & Silva, C. (2019). Haemophilia A: health and economic burden of a rare disease in Portugal. *Orphanet Journal of Rare Diseases*, 14(1), 211. doi:10.1186/s13023-019-1175-5;
- 33) Campa, D., Martino, A., . . . Marques, H., . . . Reis, R. M., . . . Zawirska, D., & Canzian, F. (2019). Genetic polymorphisms in genes of class switch recombination and multiple myeloma risk and survival: an IMMEnSE study. *Leukemia and Lymphoma*, 60(7), 1803-1811. doi:10.1080/10428194.2018.1551536;
- 34) Campos, C. F., Leite, L., Pereira, P., Pinho Vaz, C., Branca, R., Campilho, F., Freitas, F., Ligeiro, D., Marques, A., Torrado, E., Silvestre, R., Lacerda, J. F., Campos, A. Jr., Cunha, C., & Carvalho, A. (2019). PTX3 polymorphisms influence cytomegalovirus reactivation after stem-cell transplantation. *Frontiers in Immunology*, 10, 88. doi:10.3389/fimmu.2019.00088;
- 35) Campos, C. F., van de Veerdonk, F. L., Gonçalves, S. M., Cunha, C., Netea, M. G., & Carvalho, A. (2019). Host genetic signatures of susceptibility to fungal disease. In M. Rodrigues (Ed.),

Current Topics in Microbiology and Immunology, Vol. 422. Fungal Physiology and Immunopathogenesis (pp. 237-263). doi:10.1007/82_2018_113;

- 36) Campos-Romero, A., Anderson, K. S., Longatto-Filho, A., Luna-Ruiz Esparza, M. A., Morán-Portela, D. J., Castro-Menéndez, J. A., Moreno-Camacho, J. L., Calva-Espinosa, D. Y., Acosta-Alfaro, M. A., Meynard-Mejía, F. A., Muñoz-Gaitán, M., & Alcántar-Fernández, J. (2019). The burden of 14 hr-HPV genotypes in women attending routine cervical cancer screening in 20 states of Mexico: a cross-sectional study. *Scientific Reports*, 9(1), 10094. doi:10.1038/s41598-019-46543-8;
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- 39) Carvalho Silva, D. M., Marques, N., Azevedo, O., Miltenberger-Miltenyi, G., Bento, D., Guedes, J., Azevedo, P., Bispo, J., Mota, T., Fernandes, R., Nzwalob, H., Cabrita, A., Ramos, A. & De Jesus, I. (2019). P.G360R Is a Pathogenic GLA Gene Mutation Responsible for a Classic Phenotype of Fabry Disease. *Cardiology (Switzerland)*, 144(3-4), 125-130. doi:10.1159/000502437;
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- 42) Castro, I., Sampaio-Marques, B., & Ludovico, P. (2019). Targeting Metabolic Reprogramming in Acute Myeloid Leukemia. *Cells*, 8(9). doi:10.3390/cells8090967;
- 43) Cavero-Redondo, I., Tudor-Locke, C., Álvarez-Bueno, C., Cunha, P. G., Aguiar, E. J., & Martínez-Vizcaíno, V. (2019). Steps per Day and Arterial Stiffness: Systematic Review and Meta-Analysis. *Hypertension*, 73(2), 350-363. doi:10.1161/HYPERTENSIONAHA.118.11987;

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E. Research projects

- 1) Carvalho, A. | A Transdisciplinary Approach to the Identification of Personalized Biomarkers and Therapeutic Targets for Chronic Pulmonary Aspergillosis | Investigación en Ciencias de la Vida y de la Salud;
- 2) Costa, M. | Genetic screening for identification of novel therapeutic targets in SCA3 | National Ataxia Foundation (NAF);
- 3) Falcão, A. | The role of choroid plexus in myelination and in multiple sclerosis | "la caixa" Foundation;
- 4) Ferreira, P. | A point-of-care device for non-invasive multiplexed diagnosis of malaria MULTIMAL | European Commission;
- 5) Ferreira, P. | Implications of hemoglobin catabolism in antimalarial resistance | European Society of Clinical Microbiology and Infectious Diseases (ESCMID);
- 6) Lamas, N. | AAV-mediated delivery of FGF as a therapeutic strategy | AFM-Téléthon;

- 7) Maciel, P. | Determining the Efficacy of NLX-112 in a Mouse Experimental Model of Cerebellar Ataxia | Department of Defense;
- 8) Oliveira, T. | The role of interneurons in spatial memory | FUNDAÇÃO BIAL;
- 9) Pedrosa, J. | UID/Multi/50026/2019 | FCT - Base - 2019 Proj. Estratégico.
- 10) Salgado, A. | Baclofen as a potential treatment to promote recovery from spinal cord injury | Wings for Life;
- 11) Santos, N. | Factores asociados con el envejecimiento sano y patológico en la muestra de personas mayores de 90 años de la región de Braga | CENIE;
- 12) Silvestre, R. | Feeding immunity: development of new nutraceuticals for visceral leishmaniasis | European Society of Clinical Microbiology and Infectious Diseases (ESCMID);
- 13) Sousa, N. | A brain-controlled exoskeleton for spinal cord lesion | Prémio Melo e Castro 2018.

3 - Intellectual Property

A. Copyright

- 1) Assunção-Silva R., Gomes E., Silva N. & Salgado AJ. | Nanoengineered Biomaterials for Spinal Cord Injury Regeneration | Nanoengineered Biomaterials for Regenerative Medicine | Editor: M. Mozafri | Elsevier, Amsterdam | 2019 | 167-185 | ISBN: 978-0-12-813356-9;
- 2) Campos C., van de Veerdonk F., Gonçalves S., Cunha C., Netea M. & Carvalho A. | Host genetic signatures of susceptibility to fungal disease | Fungal Physiology and Immunopathogenesis | Editor: M. Rodrigues | Springer, Switzerland | 2019 | 237-263 | ISBN: 978-3-030-30236-8;
- 3) Miranda A., Igreja J. & Nogueira-Silva C. | Embriologia, anatomia, malformações uterinas, doença in amatória pélvica, endometriose, leiomiomatose, adenomiose | Ginecologia Fundamental (capítulo 4.1) | Joaquim Neves (Editor) | Lidel, 2019;
- 4) Moura, R. | Retinoic Acid as a Modulator of Proximal-Distal Patterning and Branching Morphogenesis of the Avian Lung | Retinoid and Rexinoid Signaling | Editor: S. Ray | Springer, Switzerland | 2019 | 209-224 | ISBN: 978-1-4939-9584-4;
- 5) Raposo-Lima C. & Morgado P. | The Role of Environmental Factors in the Pathogenesis of Obsessive-Compulsive and Related Disorders | A Transdiagnostic Approach to Obsessions, Compulsions and Related Phenomena | Editor: L. F. Fontenelle, M. Yücel | Cambridge University Press: Victoria | 2019 | 39-50 | ISBN: 1107195772.

4 - Scientific Recognition

A. Individual and/or team Prizes, Awards, Nominations:

- 1) Cabral J. | L'Oreal Portugal Award for Women in Science 2019;
- 2) Costa D. & Rolanda C. | Clinical performance of a new software to automatically detect Angioectasias in Small Bowel Capsule Endoscopy | Prémio Nacional de Gastrenterologia | Sociedade Portuguesa de Gastrenterologia;
- 3) Costa M. | National Ataxia Foundation seed grant 2019. |Prize attributed by NAF to assist investigators in the early or pilot phase of their studies in ataxias;
- 4) Gonçalves C., Vieira de Castro J., Pojo M., Martins E., Queirós S., Chautard E., Taipa R., Pires M., Pinto A., Pardal F., Custódia C., Faria C., Clara C., Reis R.M, Sousa N. & Costa B. | Best Paper Award 2019 - Paper with highest impact factor from ICVS/UMinho in 2018 | Universidade do Minho Instituto de Investigação em Ciências da Vida e Saúde;
- 5) Marote A., Mendes-Pinheiro B., Gomes E., Domingues A., Patrício P., Barata-Antunes S., Serre-Miranda C., Fernandes-Platzgummer A., Teixeira F., Lobato da Silva S., Roybon L., Pinto L., Salgado A. | Induced Pluripotent Stem Cell-derived Mesenchymal Stem Cells secretome as a new therapeutic tool for Parkinson's disease | 11th International Meeting of the Portuguese Society for Stem cells and Cell Therapies | October 10-12 | Lisbon, Portugal;
- 6) Oliveira-Pinto S. & Costa M. | Research grant from the Portuguese League Against Cancer (Liga Portuguesa Contra o Cancro) | Liga Portuguesa Contra o Cancro Núcleo Regional do Norte and Universidade do Minho Escola de Medicina;
- 7) Pinto L. | Nature Research Awards for Driving Global Impact 2019 (Runner up) | Prize attributed by Nature to early career researchers working in Healthcare interventions for the assessment, improvement or promotion of human health;
- 8) Pinto P., Paredes A., Costa P. & Almeida A. | Answering the call: a new measure to assess pain in people with haemophilia and description of pain experience among Portuguese patients |Prémio Grünenthal Dor 2018 |O trabalho consistiu no desenvolvimento de uma ferramenta – o Multidimensional Haemophilia Pain Questionnaire (MHPQ);
- 9) Soares-Cunha. | C Fulbright grant for professors of researchers | Grant attributed by Fulbright to professors or postdocs who wish to develop work at a university in the USA.

B. Lectures by invitation in Universities/Institutes/Meetings

- 1) Baltazar F. | Altered metabolism as hallmark of cancer: role of lactate transporters | CIBB meeting 2019| December 20 | Coimbra, Portugal;
- 2) Baltazar F. | Expression of lactate transporters (MCTS) in human cancers and exploitation as therapeutic targets| 2nd International Proteomics & Metabolomics Conference and Advanced School | July 1 | Verona, Italy;
- 3) Carvalho A. | Antimold immune response: the impact of the host, the pathogen, and translational implications | 9th Trends in Medical Mycology (TIMM) | October 11-14 | Nice, France;
- 4) Carvalho A. | Debate: Shouldn't we be measuring the host's response to IFI? – proposer | 29th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID) | April 13-16 | Amsterdam, the Netherlands;
- 5) Carvalho A. |Genetic regulation of human antifungal immunity | Invited seminar at iBiMED | University of Aveiro | May 29 | Aveiro, Portugal;
- 6) Carvalho A. |Metabolic regulation of innate immunity to *Aspergillus fumigatus* | 9th Trends in Medical Mycology (TIMM) | 9th Trends in Medical Mycology (TIMM) | October 11-14 | Nice, France;
- 7) Carvalho A. |Novel molecular mechanisms regulating innate antifungal immunity | Invited Seminar at GENYO | June 28 |Granada, Spain;
- 8) Correia-Pinto J. | Faculty member in Round Table about MIS in Pediatric Surgery | 9th Annual Congress of the European Society of Paediatric Endoscopic Surgeons | September 11-13 | Vicenza, Italy;
- 9) Correia-Pinto J. | Fetal Growth Regulation of Branching Organs and its Postnatal Impact | 1st DevBioMed Symposium | December 13 | Lisbon, Portugal;
- 10) Correia-Pinto J. | Prenatal diagnosis of GI malformations | Annual meeting of the Associação Portuguesa Diagnóstico Pré-natal | October 4-5 | Viana do Castelo, Portugal;
- 11) Correia-Sousa J. | Asthma Management. Workshop: Basics, barriers and challenges of asthma management | 24th WONCA Europe Conference | June 28 | Bratislava, Slovakia;

- 12) Correia-Sousa J. | Asthma Right Care: more benefits, less harms | EUROPREV e-learning International Webinar | October 22 | Porto, Portugal;
- 13) Correia-Sousa J. | Como simplificar o tratamento da asma - Desafiar Comportamentos apostando na Excelência | AstraZeneca Summit'19 - Leading the Future | October 12-13 | Peniche, Portugal;
- 14) Correia-Sousa J. | COPD Management | Workshop: Chronic Obstructive Respiratory Disease 2019 -Challenges based on new evidence | 24th WONCA Europe Conference | June 27 | Bratislava, Slovakia;
- 15) Correia-Sousa J. | GARD-CPLP: As oportunidades de colaboração | GARD CPLP – Políticas, Programas e Serviços nos Estados Membros | 5º Congresso Nacional de Medicina Tropical | Instituto de Higiene e Medicina Tropical | April 9 | Lisboa, Portugal;
- 16) Correia-Sousa J. | Integration of respiratory health into primary health care | The European Academy of Allergy and Clinical Immunology (EAAC) Congress | Integration of respiratory health into primary health care | June 2 | Lisboa, Portugal;
- 17) Correia-Sousa J. | Multimorbidity management | Workshop: Management of multimorbidity in primary care | 24th WONCA Europe Conference | June 29 | Bratislava, Slovakia;
- 18) Correia-Sousa J. | Severe Asthma | Video-based expert roundtable entitled, “Severe Asthma: Improving Diagnosis, Treatment, and Referral of Difficult to Manage Patients | IPCRG in partnership with Medscape Education | May 23 | Bucharest, Romania;
- 19) Costa B. | Key cellular and molecular regulators of malignant brain tumors | Portuguese Society of Oncology - Research Course | June 14 | Coimbra, Portugal;
- 20) Costa S. | Macrophages as modulators of lung development and disease | IBIMED, Universidade de Aveiro | May 2019 | Aveiro, Portugal;
- 21) Ferreira P. | Malaria developments towards elimination | University of Petra | July 28 | Oman, Jordan.
- 22) Gonçalves C. | Hallmarks of Cancer | Cancer Therapy: from basic research to clinic post-graduated course from CBMA | School of Sciences, University of Minho | May 20 | Braga, Portugal;
- 23) Lamas N. | Harnessing the potential of human pluripotent stem cells to study Amyotrophic Lateral Sclerosis (ALS) and other neurological disorders | Seminário na Unidade

Curricular Introdução à Medicina Regenerativa do Mestrado Integrado em Medicina | NOVA Medical School | Faculdade de Ciências Médicas da Universidade Nova de Lisboa | May 16 | Lisboa, Portugal;

- 24) Laranjeira I., Dias A. & Pinto-Ribeiro F. | Medicinal plants as anti-inflammatory agentes | Workshop on TCM and Herbal Medicine Research | June 17-21 | Braga, Portugal;
- 25) Lima E. | Minimally invasive surgery in urologic reconstruction: looking beyond the horizon | Society of Genitourinary Society of Genitourinary Reconstructive Surgeons - Annual Meeting | October 15-16 | Athens, Greece;
- 26) Ludovico P. | The role of proteolytic systems and metabolism in acute myeloid leukemia | CINBIO, University of Vigo | April 11 | Vigo, Spain;
- 27) Maciel P. | Disease-modifying therapies for MJD: lessons from preclinical trials | International MJD Conference | November 14-16 | Washington, USA;
- 28) Maciel P. | Evaluating the neuroprotective activity of plant extracts in Caenorhabditis elegans models of neurodegenerative diseases | 1st Sino-Portuguese International Congress on Traditional Chinese Medicine I3BS | University of Minho | June 14-21 | Braga, Portugal;
- 29) Maciel P. | Machado-Joseph disease: from mechanism to drug discovery and back | I3S | September 29 | Porto, Portugal;
- 30) Maciel P. | Molecular aspects of SCA1 and SCA | Movement Disorders Society | Karolinska Institute | October 18 | Stockholm, Sweeden;
- 31) Maciel P. | Whole-organism based drug screening for neurodegenerative diseases: from worm to mouse to human? | IBILI | March 5 | Coimbra, Portugal;
- 32) Martinho O. | Implications of RKIP Protein in Cancer Prognosis and Therapy Response | Seminary at “Unidade de Investigação em Patobiologia Molecular (UIPM) | Instituto Português de Oncologia de Lisboa Francisco Gentil EPE | December 12 | Lisbon, Portugal;
- 33) Martinho O. | Raf Kinase Inhibitory Protein (RKIP): a new predictor of EGFR targeted therapy response in solid tumors | VII International Symposium on Translational Oncology | September 13-14 | Barretos, São Paulo, Brazil;
- 34) Martinho O. | Research on Cell Signaling & Therapy applied to oncobiology | Jornadas da Ciência | University of Minho | March 13 | Braga, Portugal;

- 35) Martinho O. | RKIP as a modulator of oncogene targeted therapy response in solid tumors | 2nd International Symposium on Prognostic and Therapeutic Implications of RKIP in Cancer | May 9–10 | Crete, Greece;
- 36) Miguelote R. | Abortos de Repetição: Uma nova perspectiva | Reunião da Associação Portuguesa de Diagnóstico Pré-Natal | October 4-5 | Viana do Castelo, Portugal;
- 37) Miguelote R. | Qual o papel do parto com o mínimo de intervenção médica na realidade obstétrica atual | XI Jornadas Materno-Fetais | October 26 | Trofa, Portugal;
- 38) Monteiro P. | Challenges and opportunities in the next European Framework Programme – Horizon Europe | Lusophone Academy of Pharmaceutical Sciences | June 17 | Lisbon, Portugal;
- 39) Monteiro P. | Dissecting brain networks and EBPS Biennial Meeting | August 27 | Braga, Portugal;
- 40) Monteiro P. | SHANK proteins: roles at the synapse and in autism spectrum disorder | Biozentrum/Pharmazentrum, University of Basel | July 18 | Basel, Switzerland;
- 41) Monteiro, P. | Invited peer reviewer for UK MRC Proposal evaluation 2019 (UK Medical Research Council), as an expert in Autism research field;
- 42) Moura R. | Developmental signaling pathways in lung branching morphogenesis | Biochemistry and Biophysics in the Post-Genomic Era | April 12 | Porto, Portugal;
- 43) Nogueira-Silva C. | A Importância do Aconselhamento na Vacinação Contra o HPV | 193ª Reunião da Sociedade Portuguesa de Ginecologia | June 6 – 8 | Carvoeiro, Portugal;
- 44) Nogueira-Silva C. | DIU no Século XXI | 193ª Reunião da Sociedade Portuguesa de Ginecologia | June 6 – 8 | Carvoeiro, Portugal;
- 45) Oliveira T. | Differential lipid composition and regulation along the hippocampal longitudinal axis | 1st Membrane Trafficking Workshop | International Iberian Nanotechnology Institute | June 11 | Braga, Portugal;
- 46) Oliveira T. | The role of phospholipase D pathway in neurodegeneration | Portuguese Society for Neuroscience (SPN) | May 30 - June 1 | Lisboa, Portugal;
- 47) Oliveira T. | The role of the phospholipase D pathway in the nervous system functioning and Alzheimer's disease | Thomas Jefferson University | October 15 | Philadelphia, USA;

- 48) Queirós S. | Advanced Course on Bioinformatics in Health Science | University of Minho | November 12 and 19 | Braga, Portugal;
- 49) Rito T. | Research and control of outbreaks and epidemiological clusters | Instituto de Saúde Pública da Universidade do Porto (ISPUP) | October 21 | Porto, Portugal;
- 50) Rodrigues AJ. | Impact of prenatal stress in the reward circuit: from rodents to humans and back | CompLifeSci Seminar Series | University of Turku | October 9 | Turku, Finland;
- 51) Rodrigues AJ. | Long term impact of prenatal glucocorticoid exposure in the brain | Prenatal and Early Life Stress – Implications For Later Childhood Development And Health Meeting | June 6-7 | Turku, Finland;
- 52) Rodrigues AJ. | Neurobiological basis of reward XVI Meeting of the Portuguese Society for Neuroscience (SPN) | May 31 – June 1 | Lisbon, Portugal;
- 53) Rodrigues AJ. | Nucleus accumbens circuits in reward and aversion | Behavioural and Cognitive Neuroscience Seminar Series | May 21 | Oxford University | Oxford, UK;
- 54) Rodrigues AJ. | Prenatal stress and consequences in brain development | XXVI Colombian Congress of Biological Psychiatry and Neuroscience | June 14 | Bogota, Colombia;
- 55) Rodrigues AJ. | The role of different neuronal populations of the reward circuit in behavior: Not everything is what it seems | University of Genève | April 1 | Genève, Switzerland;
- 56) Rolanda C. | Diferenciação e Acessibilidade em Gastreenterologia - Inovação Endoscópica | Reunião Anual do NGHD | November 15 | Vilamoura, Portugal;
- 57) Rolanda C. | Formação em Endoscopia Digestiva – Como adaptar a formação à evolução | May 29 | Vilamoura, Portugal;
- 58) Rolanda C. | Models and simulators in endoscopy training - what's the evidence | 1st Live SPED | February 22-23 | Porto, Portugal;
- 59) Rolanda C. | Treino em simuladores e modelos animais – como otimizar? | 2ª Reunião Anual da SPED - Qualidade em CPRE e EUS | September 20 | Lisboa, Portugal;
- 60) Salgado AJ. | ECM-like Hydrogels, Stem Cells and their Secretome: A Tool Kit for CNS Repair | University of Wallongong | October 25 | Wallongong, Australia;
- 61) Salgado AJ. | Gellan Gum based Hydrogels as Tools to Induce Spinal Cord Injury Regeneration | 6th Biomaterials Day | Koç University | December 9 | Istanbul, Turkey;

- 62) Salgado AJ. | Impact of Stem Cell Secretome based Therapies in CNS Regenerative Medicine | University College of London | November 13 | London, UK;
- 63) Salgado AJ. | Impact of Stem Cells Secretome in the Injured Central Nervous System | TERMIS AP Congress 2019 | October 14 | Brisbane, Australia;
- 64) Salgado AJ. | Role of Mesenchymal Stem Cells in CNS Regenerative Medicine | V Bioengineering Week | Technical University of Lisbon | March 18-22 | Lisbon, Portugal;
- 65) Salgado AJ. | Stem Cells and Their Secretome for Spinal Cord Injury Regeneration | St. Vincents' Hospital – Biofabrication Lab | October 28 | Melbourne, Australia;
- 66) Salgado AJ. | Stem Cells Secretome and Biodegradable Hydrogels for CNS Regenerative Medicine Applications | University of Nottingham | November 12 | Nottingham, UK;
- 67) Salgado AJ. | Stem Cells Secretome as a Modulator of CNS Regeneration | TERMIS EU 2019 | May 30 | Rhodes, Greece;
- 68) Salgado AJ. | Stem Cells Secretome based Approaches in CNS Regenerative Medicine | 6th Symposium on Biotech Health | July 2 | Porto, Portugal;
- 69) Salgado AJ. | Stem Cells Secretome in Central Nervous Systems Regenerative Medicine | Faculty of Medicine of the University of Lisbon | September 12 | Lisbon, Portugal;
- 70) Salgado AJ. | Stem Cells Secretome in SCI Regenerative Medicine | 1st Minho Meeting in Spinal Cord Injury | July 15 | Braga, Portugal;
- 71) Sampaio-Marques B. & Ludovico P. | Proteostasis control during aging: lessons from yeast | 11th Symposium on Metabolism | October 30 | Porto, Portugal;
- 72) Santos N. | Consentimento informado e ética - O Doente no Centro dos Ensaio Clínicos | Associação Portuguesa de Leucemias e Linfomas | January 26 | Maia, Portugal;
- 73) Santos N. | Metodologia da Investigação e Análise de Dados para fazer a Diferença - Como preparar e submeter projetos de investigação a comissões de ética | Sociedade Portuguesa de Anestesiologia | Congresso da Sociedade Portuguesa de Anestesiologia 2019 | March 23 | Figueira da Foz, Portugal;
- 74) Silva N. | Lesões Medulares e Terapias Moleculares | Encontro Sobre Lesões Vertebral Medulares | Associação Salvador | May 15 | Alcoitão, Portugal;

- 75) Silva N. | Lesões Vertebro-Medulares: Onde Estamos e Para Onde Caminhamos? | 7as Jornadas de Ciências Biotecnológicas | Escola Superior Agrária | February 26 | Ponte de Lima, Portugal;
- 76) Silvestre R. | Leishmaniose na Europa: da epidemiologia à pesquisa | Universidade Federal da Bahia, June 12 | Salvador, Brasil;
- 77) Sotiropoulos I. | – Chronic stress and Alzheimer’s disease brain pathology| Uni Osnabruck Master/PhD course | 18 October | University of Osnabruck | Osnabruck, Germany;
- 78) Sotiropoulos I. | Endolysosomal sorting and degradation of Tau & its role in stress-driven hippocampal malfunction| AD/PD 2019, the 14th International Conference on Alzheimer's and Parkinson's Diseases| March 26-31 | Lisbon, Portugal;
- 79) Sotiropoulos I. | Lifetime Stress & brain pathology: exploring the link between depression and Alzheimer’s disease| Max Planck Institute of Structural Biology - Master program of MPISB | October 20 | Dresden, Germany;
- 80) Sotiropoulos I. | Molecular underpinnings of sex-dependent hippocampal vulnerability in depression and Alzheimer’s disease | Mediterranean Neuroscience Society (MNS) meeting | June 25| Marrakesh, Marocco;
- 81) Sotiropoulos I. | Ribonucleoprotein particles and granules, key hotspots for the biology and disease of the brain | 32nd ECNP Congress | September 10 | Copenhagen, Denmark;
- 82) Sotiropoulos I. | Tau therapeutics in brain pathology: from depression to Alzheimer’s disease| LMU Medical School | September 19 | Munich, Germany;
- 83) Sotiropoulos I. | Tau-dependent and -independent mechanisms of adult cytogenesis suppression in stress-driven brain pathology | 4th Eurogenesis Conference | June 13 | Bordeaux, France;
- 84) Sousa H. | Código europeu contra o cancro - Um dia pela vida em Bragança | i Liga Portuguesa Contra o Cancro NRN, 4 May 2019, Bragança, Portugal.
- 85) Sousa H. | Distribuição dos genótipos HPV de alto risco: resultados de um programa de rastreio de base populacional | 7º Curso Avançado de Ginecologia Oncológica | June 27-28 | Porto, Portugal;
- 86) Torrado E. | Impact of the inflammatory environment in the protective CD4 T cell response to Mycobacterium tuberculosis infection | MycoPorto 2019 | September 19-20 | Porto, Portugal;

- 87) Veiga, M. | Antimicrobial resistance: the molecular mechanism behind it | XV Congreso Internacional de Investigación Científica (XV CIC) | June 5-8 | Santo Domingo, Dominican Republic;
- 88) Veiga, M. | Defining drug resistance pathways in the malaria parasite | Instituto de Investigação em Biomateriais, Biodegradáveis e Biomiméticos (i3Bs) | February 8 | Guimarães, Portugal;
- 89) Veiga, M. | Fatores genéticos do parasita da malária relevantes na resposta aos fármacos | Ciência - Concentra o Conhecimento | Jornadas da Ciência, with subordinate theme | Universidade do Minho | March 13 | Braga, Portugal;
- 90) Veiga, M. | Progress of molecular diagnosis to detect malaria disease | Institute of Microbiology and Parasitology (IMPA) | Autonomous University of Santo Domingo (UASD) | February 27 | Santo Domingo, Dominican Republic.

C. Live procedures/surgery in recognized Universities/Hospitals/Meetings

- 1) Correia-Pinto J. | Live Surgery by invitation for thoracoscopic repair of esophageal atresia (first step) at Hospital Dona Estefânia | June 06 | Lisbon, Portugal;
- 2) Correia-Pinto J. | Live Surgery by invitation for thoracoscopic repair of esophageal atresia (second step) at Hospital Dona Estefânia | June 27 | Lisbon, Portugal;
- 3) Correia-Pinto J. | Live Surgery by invitation for thoracoscopic repair of long-gap esophageal atresia (primary repair) at Hospital Dona Estefânia | October 17 | Lisbon, Portugal;
- 4) Lima E. | Live Laparoscopic Prostatectomy | Hospital Universitário de Coimbra | November | Coimbra, Portugal.

D. Editorial activity (Scientific Journals ...)

- 1) Baltazar F. | Associate Editor | BMC cancer;
- 2) Baltazar F. | Associate Editor | Frontiers in Nutrition;
- 3) Baltazar F. | Editorial Board | World Journal of Experimental Medicine;
- 4) Cabral J. | Editorial Board | NeuroImage;

- 5) Cabral J. | Associate Editor | Network Neuroscience;
- 6) Carvalho A. | Editorial Advisory Board Member | The Journal of Infectious Diseases;
- 7) Carvalho A. | Associate Editor | Frontiers in Microbiology;
- 8) Carvalho A. | Guest Editor | Current Opinion in Microbiology;
- 9) Carvalho A. | Guest Editor | Frontiers in Immunology;
- 10) Correia-Pinto J. | Associate Editor | European Journal of Pediatric Surgery;
- 11) Correia-Pinto J. | Associate Editor | Frontiers in Pediatrics;
- 12) Correia-Sousa J. | Editorial Adviser | The European Journal of General Practice (EJGP);
- 13) Correia-Sousa J. | Editorial board | The Portuguese version of the Journal Thorax / Archives of Disease in Childhood;
- 14) Correia-Sousa J. | Scientific Board | Revista Portuguesa de Medicina Geral e Familiar;
- 15) Ferreira P. | Editorial Board | Tropical Medicine and Health;
- 16) Leite-Almeida H. | Guest Associate Editor | Frontiers in Behavioral Neuroscience;
- 17) Lima, E. | Co-Editor | Acta urologica Portuguesa;
- 18) Lima, E. | Editorial Committee | Minerva Urologica e Nefrologica;
- 19) Longatto A. | Associate-Editor | Acta Cytologica;
- 20) Longatto A. | Editorial Board | Diagnostic Cytopathology;
- 21) Maciel P. | Associate Editor | Frontiers in Neuroscience;
- 22) Marques, F. | Guest Associate Editor | Cellular Neuropathology | Frontiers in Cellular Neurosciences;
- 23) Marques, F. | Guest Associate Editor | Cellular Neurophysiology | Frontiers in Cellular Neurosciences;
- 24) Marques, F. | Guest Editor | Frontiers in Cellular Neuroscience Research;
- 25) Martinho O. | Editorial Board | Journal of Molecular Oncology Research;

- 26) Maunakea A., Bernstein A., Costa B. & Richardson J. | Guest Editor | Epigenetic Plasticity in Brain Development and Function | Frontiers in Genetics;
- 27) Morgado P. | Associate Editor | BMC Psychiatry;
- 28) Morgado P. | Associate Editor | Frontiers in Psychiatry;
- 29) Morgado P. | Associate Editor | Jornal Brasileiro de Psiquiatria;
- 30) Nogueira-Silva C. | Associate editor | Acta Obstétrica e Ginecológica Portuguesa;
- 31) Oliveira J. | Associate Editor | Frontiers in Cellular Neuroscience – Non-neuronal cells;
- 32) Palha J. | Editor | Journal of Molecular Neuroscience;
- 33) Palha J. | Editor | Neurology, Psychiatry and Brain Research;
- 34) Reis R. | Editorial Member | Brazilian Journal of Medical and Biological Research;
- 35) Reis R. | Editorial Member | Neuropathology;
- 36) Reis R. | Editorial Member | Pathobiology;
- 37) Reis R. | Editorial Member | PlosOne;
- 38) Reis R. | Editorial Member | Surgical and Experimental Pathology;
- 39) Rodrigues AJ. | Associate Editor | Behavioral Endocrinology;
- 40) Rodrigues AJ. | Editorial board | Brain Research;
- 41) Rodrigues AJ. | Editorial board | Frontiers in Cellular Neuroscience;
- 42) Rodrigues F. | Associate-Editor | Fungi and Their Interactions, Frontiers in Microbiology;
- 43) Rodrigues F. | Associate-Editor | Microbial Physiology and Metabolism | Frontiers in Microbiology;
- 44) Rolanda C. | Editorial Board | Endoscopy;
- 45) Rolanda C. | Editorial Board | GE - Portuguese Journal of Gastroenterology;
- 46) Salgado AJ. | Associate Editor | Biochimie;

- 47) Salgado AJ. | Associate Editor | Biomed Research International;
- 48) Salgado AJ. | Associate Editor | BMC Neuroscience;
- 49) Salgado AJ. | Associate Editor | Stem Cells International;
- 50) Silva N. | Guest Editor | Special Issue "Therapeutics Agents for Neural Repair" | Pharmaceuticals (MDPI);
- 51) Sousa N. | Editor-in-Chief | Frontiers in Behavioral Neuroscience
- 52) Veiga, M. | Editorial board | International Journal of Infectious Diseases and Therapy.

E. Scientific Advisor/Board Member/Jury of external Institutions/Foundations/Scientific Societies:

- 1) Baltazar F. | Board member of the Internacional Society of Cancer Metabolism;
- 2) Carvalho A. | Member of the Direction Board | Portuguese Society for Immunology;
- 3) Carvalho A. | Co-chair for the Working Group on Immunologic Markers for Diagnosis and Treatment Stratification of Invasive Mold Infection | European Confederation of Medical Mycology;
- 4) Carvalho A. | Evaluator for the ESCMID Research Grants | European Society of Clinical Microbiology and Infectious Diseases;
- 5) Carvalho A. | Evaluator for the Generic Call for Proposals | Agence Nationale de la Recherche (ANR);
- 6) Carvalho A. | Evaluator for the Marie Sklodowska-Curie Individual Fellowships (MSCA-IF) Life Sciences (LIF);
- 7) Carvalho A. | Evaluator for the The LEaDing Fellows Postdocs Programme;
- 8) Carvalho A. | Fellow of the European Confederation of Medical Mycology;
- 9) Carvalho A. | Member of the Direction Board of the Portuguese Society of Medical Mycology;
- 10) Carvalho A. | Member of the Medicina Clínica e Ciências da Saúde Panel | FCT Bolsas BD 2019;
- 11) Correia-Sousa J. | Member of the Board and past-president of the International Primary Care Respiratory Group;

- 12) Correia-Sousa J. | Member of the Board of Trustees of Fundação para a Saúde - Serviço Nacional de Saúde;
- 13) Correia-Sousa J. | Member of the Planning Committee of the Global Alliance against Respiratory Diseases (GARD – World Health Organisation);
- 14) Leite-Almeida H. | Jury Programa de Estimulo a Projectos de Investigação Interdisciplinar e Translacional | PEPITA | FMUC;
- 15) Lopes L. | Board of Directors | Sociedade Portuguesa de Cirurgia Minimamente Invasiva;
- 16) Ludovico, P. | French National Institute of Cancer | Human Frontier Science Program | Projetos Pepita (Coimbra);
- 17) Maciel P. | Member of the Expert Committee for a Scientific Agenda for Portugal 2020-2030 (rapporteur for the theme “Precision Medicine and Biomarkers”) | Portuguese Foundation for Science and Technology (FCT) | Ministry of Science and Higher Education, Portugal;
- 18) Maciel P. | Member of the Inter-Ministerial Committee for an Integrated Strategy for Rare Diseases (including the Portuguese Ministries of Health, Education, Social Security and Science and Higher Education);
- 19) Maciel P. | Scientific advisor of NIH funded project “Clinical trial readiness for spinocerebellar ataxias”;
- 20) Marques, F. | Final report evaluation of the projects of “Investigação Científica e Desenvolvimento Tecnológico (IC&DT)” in the Neuroscience field | National Scientific Report Evaluation Committee | Portuguese Science Foundation (FCT);
- 21) Martinho O. | Reviewer of Graduate Women in Science (GWIS) Fellowship Program;
- 22) Martinho O. | Supervisor and Jury of the Pos-graduation program in oncology (Master and PhD) | Instituto de Ensino e Pesquisa da Fundação Pio XII | Hospital de Câncer de Barretos | São Paulo, Brazil;
- 23) Miguelote R. | Consultor | Conselho Científico do Centro Académico Clínico do Hospital Senhora da Oliveira;
- 24) Miguelote R. | Presidente do Conselho Fiscal | Associação Portuguesa de Diagnóstico Pré-Natal.
- 25) Morgado P. | Board Member of Portuguese Society of Clinical Communication;

- 26) Nogueira-Silva C. | General- secretary | Portuguese Society of Obstetrics and Maternal-Fetal Medicine;
- 27) Oliveira TG. | Member of the Board | Sphingolipid Club;
- 28) Oliveira TG. | Vice-President of the Portuguese Society for Neuroscience;
- 29) Palha J. | Member of the Finance Committee | Society for Neurosciences (USA);
- 30) Pinto L. | Co-founder Member of the European College of NeuroPsychopharmacology (ECNP) Thematic Working Group on Stress Resilience;
- 31) Pinto L. | Project Reviewer | Graduate Women in Science (GWIS) National Fellowships Program;
- 32) Rodrigues AJ. | Invited Associated Member of Colombian Association of Biological Psychiatry;
- 33) Salgado AJ. | President of the Portuguese Society for Stem Cells and Cell Therapies;
- 34) Salgado AJ. | Scientific Advisory Committee | IMEDTECH;
- 35) Silva N. | Evaluator for European Science Foundation;
- 36) Silvestre R. | Governing Bodies | Portuguese Society for Immunology | Secretary for the General Assembly;
- 37) Sousa H. | Bolsa de Investigação em Oncologia LPCC-NRN;
- 38) Sousa H. | Graduate women in science awards 2019;
- 39) Sousa N. | Board of Directors | BIAL Foundation.

F. Chairman, Organizing committee, Scientific Committee for Congresses of National / International Scientific Societies;

- 1) Afonso, J. | Member of the local organizing committee | 6th Annual ISCaM Meeting 2019 – Cancer Metabolic Rewiring: Mapping the Road to Clinical Translation | October 17-19 | Braga, Portugal;
- 2) Baltazar F. | Chair Committee 6th Annual ISCaM Meeting 2019– Cancer Metabolic Rewiring: Mapping the Road to Clinical Translation | 6th Annual Meeting of the International Society of Cancer Metabolism | October 17-19 | Braga, Portugal;

- 3) Carvalho A. | Organizing Committee | The Frontiers of Research in Interstitial Lung Diseases | May 10 | Braga, Portugal;
- 4) Correia-Sousa J. | Chairman, course organizer and speaker | IPCRG 'Teach the Teacher' Workshop "Children with asthma" | April 27–29 | Kuala Lumpur, Malasia;
- 5) Correia-Sousa J. | Chairman, course organizer and speaker | Management of Chronic Respiratory Diseases in Primary Health Care | March 2-3 | CITY, Macau;
- 6) Correia-Sousa J. | Chairman, course organizer and speaker | Quality and Patient Safety in Primary Care | March 9-10 | CITY, Macau;
- 7) Correia-Sousa J. | Chairman, course organizer and speaker. | IPCRG 'Teach the Teacher' Workshop "Asthma Right Care for Community Pharmacists" | October 4–6 | Porto, Portugal;
- 8) Costa B. |Scientific committee member and invited chair, 6th Annual ISCaM Meeting 2019– Cancer Metabolic Rewiring: Mapping the Road to Clinical Translation | Cancer Metabolic Rewiring: Mapping the Road to Clinical Translation | October 17-19 | Braga, Portugal;
- 9) Costa M. |Organizing Committee | 6th Annual ISCaM Meeting 2019– Cancer Metabolic Rewiring: Mapping the Road to Clinical Translation | October 17-19 | Braga, Portugal;
- 10) Duarte-Silva S. | Organizing committee EBPS Biennial Meeting | August 28-31 | Braga, Portugal;
- 11) Gomes E. | Organizing committee | 1st Minho Meeting on Spinal Cord Injury | July 15 | Braga, Portugal;
- 12) Granja S. | Organizing Committee | 6th Annual ISCaM Meeting 2019 – Cancer Metabolic Rewiring: Mapping the Road to Clinical Translation | October 17-19 | Braga, Portugal;
- 13) Maciel P. | Scientific Committee 2019 International Ataxia Research Conference (IARC)|November 14-16 |Washington, USA;
- 14) Marques F. | Chair committee | Not the usual suspects: new insights into damage and repair in the multiple sclerosis brain | 18th National Meeting of the Spanish Society of Neuroscience | September 4-6 | Santiago de Compostela, Spain;
- 15) Marques F. | Organizing committee | EBPS Biennial Meeting | August 28-31 | Braga, Portugal;
- 16) Miguelote R. | Comissão Científica | EBPS Biennial Meeting | Viana do Castelo, Portugal;

- 17) Morgado P. | Organizing committee | National Congress of Clinical Communication | July 5-6 | Lisbon, Portugal;
- 18) Morgado P. | Scientific Committee | Congress of National Psychiatry | January30 – February jan - 01 fev | Troia, Portugal;
- 19) Nascimento D. |Organizing Committee| ICVS Satellite Symposium Meeting: Decoding astrocyte-neuron dialogues that produce brain outputs | July 8 | Braga, Portugal;
- 20) Nogueira-Silva C. | Scientific Committee | Reunião da SPOMMF: Cuidados no Pós-Parto | April 12-13 | Lisboa, Portugal;
- 21) Nogueira-Silva C. | Scientific Committee | V Congresso Nacional de Obstetrícia e Medicina Materno-Fetal | November 28-30 | Figueira da Foz, Portugal;
- 22) Oliveira, J. | Member of Advisory Committee | Portuguese Society for Neuroscience (SPN) | May 30 - June 1 | Lisboa, Portugal;
- 23) Oliveira, J. | Organizing Committee | ICVS Satellite Meeting of GLIA 2019 | July 8 | Braga, Portugal;
- 24) Osório N. | Scientific committee | MycoPorto 2019 | September 19-20| Porto, Portugal;
- 25) Pêgo, JM. | Organizing Committee | EBMA - 2019 Annual Conference | November 8 | Lodz, Poland;
- 26) Pinto L. | Organizer | Neuroinflammation and glial plasticity in anxiety and depression: Underlying mechanisms and novel therapeutic targets | 7th Mediterranean Neuroscience Conference | June 23-27 | Marrakech, Marocco;
- 27) Pinto L. | Organizing Committee | EBPS Biennial Meeting | 28-31 August | Braga, Portugal;
- 28) Pinto L. |Scientific Committee | XVI Meeting of the Portuguese Society for Neuroscience (SPN) | May 30 - June 1 | Lisbon, Portugal;
- 29) Queirós S. | Scientific Committee | 2019 IEEE 7th International Conference on Serious Games and Applications for Health (SeGAH) | August 05-07 | Kyoto, Japan;
- 30) Reis R. | Chair Genetic Committees | 10th Brazilian-German Frontiers of Science and Technology Symposium | September 5-8 | Munich, Germany;

- 31) Rodrigues AJ. | Organising committee | EBPS Biennial Meeting | August 28-31| Braga, Portugal;
- 32) Rolanda C. | Organizing and Scientific Committee | Curso Endoscopia I (IFE do 1º ano) – teórico | Escola SPED - Cursos de Formação em Endoscopia para Internos de Gastrenterologia | April 27 | Lisboa, Portugal;
- 33) Rolanda C. | Organizing and Scientific Committee | Curso Endoscopia II (IFE do 2º ano) – teórico | Escola SPED - Cursos de Formação em Endoscopia para Internos de Gastrenterologia | April 27 | Lisboa, Portugal;
- 34) Rolanda C. | Organizing and Scientific Committee | Curso Técnicas Básicas em endoscopia (3º ano) - hands-on modelo ex vivo | Escola SPED - Cursos de Formação em Endoscopia para Internos de Gastrenterologia | November 6 | Lisboa, Portugal;
- 35) Rolanda C. | Organizing Committee | 17ª Jornadas Luso-Galaicas de Endoscopia Digestiva. | Clube Endoscópico do Eixo Atlântico | April 12-13 | Sanxenxo, Spain;
- 36) Salgado AJ. | Meeting Chair | 1st Minho Meeting on Spinal Cord Injury | July 15 | Braga, Portugal;
- 37) Salgado AJ. | Organizing Committee | Endogenous Tissue Regeneration through Cells Instructive Biomaterials | TERMIS AP Congress 2019 | October 14-17 | Brisbane, Australia;
- 38) Salgado AJ. | Organizing Committee | Extracellular Vesicles as Diagnostic Markers and Regenerative Medicine Approaches | TERMIS AP Congress 2019 | October 14-17 | Brisbanem Australia;
- 39) Silva JM | Local Organizing Committee | EBPS Biennial Meeting | August 28-31 | Braga, Portugal;
- 40) Silva N. | Chair Committee | Minho Spinal Cord Injury Meeting | 1st International Meeting of the Portuguese Network for Spinal Cord Injury Research | July 15 | Braga, Portugal;
- 41) Silvestre R. | Organizing committee | XLV Annual Meeting of the Portuguese Society of Immunology| May 15-17 | Coimbra, Portugal;
- 42) Sotiropoulos I. | Organizing committee | EBPS Biennial Meeting | August 30 - September 2 | Braga, Portugal;
- 43) Viana-Pereira M. | Organizing committee | Investigação em Cancro Pediátrico: Onde estamos? Para onde vamos? | November 8 | Lisbon, Portugal.

5 - Translation & Entrepreneurship Initiatives

A. Patents Business Ownership or Licensing/Selling

- 1) Patent (WO/2019/198061) sold to KARL STORZ SE & CO. KG, for commercialization of the technology KidneyNav that will allow to perform ureteroscopy-assisted percutaneous kidney access in an easier, precise and faster way without exposure radiation.

B. Spin-Offs / Start-ups (active and/or launched in 2019)

- 1) BnML

Bn'ML - Behavioral & Molecular Lab appears in 2012 as a spin-off of the Portuguese University of Minho (UMinho), in close association with the Life and Health Sciences Research Institute (ICVS - member of the PT Government ICVS/3B's – Associate Laboratory), from the School of Medicine of the UMinho. Bn'ML delivers customized behavioral and molecular preclinical analysis services for testing the potential of new therapeutic compounds, thus improving the drug development process in an early stage.

- 2) iCognitus

iCognitus is a Spin-Off company associated with the University of Minho in Portugal, one of the few medical schools in the world that have been awarded the ASPIRE certificate. Was founded in 2013 by leading experts in online assessment and is a software house developing a complete exam management solution, which delivers powerful and actionable data to assess learning outcomes and increase student learning, engagement, and retention. Our mission is to build the tools needed to make that your reality. From development, to support, to marketing—our focus is on creating the best products and helping our clients be as successful as possible.

- 3) iSurgical3D.

The iSurgical3D is a company founded in 2010, full dedicated to research, development and marketing of prosthetics and orthotics and other medical devices to use in patients based on 3D technologies. This project aimed to find an electro-mechanical platform based in 3D technologies for virtual modelation of implants for the correction of Pectus Excavatum by the Nuss procedure. The success of this project, whose intellectual property has now been

patented, was the basis of the spirit that led to the creation of iSurgical3D, Spin-Off of the UMinho. Currently, iSurgical3D is developing a strategy to extend its methodology to other human diseases, including correction of Pectus Carinatum, scoliosis and dental molding. The experience of its employees makes iSurgical3D a company specialized in advanced solutions and customized for surge.

6 - Science Outreach

ICVS research is focused on life and health sciences, including Microbiology and Infection, Neurosciences, Public Health, and Surgical Sciences. The work developed at ICVS is of paramount importance for the society, being public engagement in science since early ages crucial to promote health literacy and interest in science.

In the year of 2019, the ICVS continued to develop its program to promote scientific outreach. The program aims to promote strong bonds between scientists and the community, and also sharing scientific developments in different areas. During 2019, 8 major events took place: i) “Semana do Cérebro” 11 to 15 of March; ii) “Semana da Microbiologia e Infecção” 25 to 29 of March. iii) “ICVS Open Day” 12 of April; iv) “Dia da Imunologia” 29 of April; v) “Semana ABC da Cirurgia” 29 of April to 3 of May; vi) “Olimpíadas da Saúde” 24 of May; vii) “Verão no Campus” 22 to 25 of July; and viii) “O Melhor Aluno na UMinho” 18 to 20 of December. These events gathered a total of 1728 participants that were directly involved in laboratory activities with a strong emphasis on hands-on scientific initiatives. This number represents an increase of participants of more than 30% when compared to the year of 2018.

- 1) Semana ABC da Cirurgia 29 de Abril a 3 de Maio de 2019,
- 2) ICVS Open Day 12 de Abril de 2019;
- 3) Olimpíadas da Saúde 24 de Maio de 2019;
- 4) Verão no Campus 22 a 25 de Julho de 2019;
- 5) O Melhor Aluno na UMinho 18 a 20 de Dezembro de 2019;
- 6) Dia da Imunologia 29 de Abril de 2019;
- 7) Semana do Cérebro 11 a 15 de Março 2019;
- 8) Semana da Microbiologia e Infecção 25 a 29 de Março 2019.

7 - Culture & Wellness

The ICVS fostered in 2019 the implementation of a program including Social, Sports, Wellness activities that were carried out under the designation “ICVS Fora d’horas”.

These activities aimed at bringing ICVS researchers and staff together in informal contexts to allow the free interaction between all members of our community.

We organized indoor activities such as Yoga (Tibetan and dance), and “Science for our kids”, and two major gatherings in Summer and Autumn.

We also organized Walks in 4 different trails in the north of Portugal, where we could visit distant places such as Valongo, Ponte de Lima, Guimarães and Vieira do Minho. We also carried out a whole day visit to visit Monção, the cradle village of Alvarinho wine to visit the Brejoeira Palace, the Quinta de Santiago. There, we could learn all the steps of wine production and a final tour in the Alvarinho Festival enjoying local food and interaction with the local community and wine makers.

These activities promoted the interaction between ICVS researches of the different fields, and between our staff that enrolled these activities as well. The Summer and Autumn gatherings, as well as the “Science for our Kids” activity fostered the interaction of our families with our workplace and our research activities, allowing an excellent outreach to the society.