

5th SYMPOSIUM OF THE MSc IN ONCOLOGY

**Videoconference
22-23 February 2021**

Organizing Committee

Carmen Jerónimo (IPOPorto/ICBAS-UP)
José Pedro Sequeira

Keynote Speakers

André L. Carvalho; IARC, Lyon, FRANCE
Bruno Sarmiento; I3S, Porto
Célia Gomes; iCBR-FMUC, Coimbra

Alumni

Diana Mesquita
Pedro Costa Pinheiro

Scientific Committee

Carmen Jerónimo (IPOPorto/ICBAS-UP)
Fátima Martel (FMUP)
Lúcio Lara Santos (IPOPorto/UFP/ICBAS-UP)
Manuel Teixeira (IPOPorto/ICBAS-UP)
M. Helena Vasconcelos (IPATIMUP-I3S/ FF-UP)
Maria José Bento (IPOPorto/ICBAS-UP)
Maria José Oliveira (I3S/ICBAS-UP)
Rui Henrique (IPOPorto/ICBAS-UP)
Salomé Pinho (IPATIMUP-I3S)

Day 1: <https://videoconf-colibri.zoom.us/j/87420024837?pwd=YjBNZXRNNUJDbjBRNnE4RnBGd2lSdz09>

Day 2: <https://videoconf-colibri.zoom.us/j/89764290674?pwd=cUp4cXNlbVhNdjJnQUVEMnFVT2dQZz09>

Acknowledgements:

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PROGRAMME Day 1: Monday, 22nd

14:00 *Opening session: Prof. Carmen Jerónimo (Director MSc in Oncology)*

Former Students' Corner

Chair: Carmen Jerónimo (IPO Porto/ICBAS-UP)

14:00 – 14:30 **Diana Mesquita (MSc Oncology 2012);** Clinical Research Associate II at PRA Health Sciences: **“10 Pills Away: From Academia to Industry”**

14:30 – 15:00 **Pedro Costa Pinheiro (MSc Oncology 2012);** PhD student Department of Pathology, University of Virginia, USA: **“Ceramide NanoLiposomes as a novel therapeutic for Prostate cancer”**

Biomarkers (Detection, Prognosis & Prediction)

Chairs: Rui Henrique (IPO Porto/ICBAS-UP) & Manuel Teixeira (IPO Porto/ICBAS-UP)

15:00 – 15:45 **KEYNOTE LECTURE 1: André L. Carvalho, MD, PhD; IARC, Lyon, FRANCE**
“IARC research on cancer screening: from research to policy”

15:45 – 16:00 **Ana Carolina C. Dias:** “Genetic characterization of upper urinary tract urothelial carcinoma”

16:00 – 16:15 **Guilherme F. Machado da Silva:** “Liquid biopsies: Effects of long time storage.”

16:15 – 16:30 **Hugo Vilhena:** “Analysis of the internal cargo of extracellular vesicles in felines with spontaneous malignant mammary tumors.”

16:30 – 16:45 **José Pedro L. Sequeira:** “KidLBmiRs: Kidney Tumors’ subtyping using microRNAs based Liquid Biopsies”

Clinical Oncology

Chairs: Lúcio Santos (IPO Porto/UFP/ICBAS-UP) & Maria José Bento (IPO Porto/ICBAS-UP)

16:45 – 17:00 **Flora Tavares Capelo Camanho:** “Itinerário Terapêutico de Mulheres Mastectomizadas: estímulos, barreiras e desafios.”

17:00 – 17:15 **Joseane John Müller:** “Atuação do Farmacêutico Clínico e redução dos erros relacionados com medicamentos durante o tratamento de doentes oncológicos no Instituto Português de Oncologia do Porto.”

END of Day 1

5th SYMPOSIUM OF THE MSc IN ONCOLOGY

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Day 2: Tuesday, 23th

Drugs & Therapy

Chairs: M. Helena Vasconcelos (IPATIMUP-I3S/ FF-UP) & Fátima Martel (FMUP)

- 9:15 - 9:30** Ana Catarina Oliveira Trigo: "Synergistic antitumor effect of combined laser thermotherapy and immunomodulators in malignant melanoma"
- 9:30 - 9:45** Francisca Pontes do Carmo: "Effect of dietary polyphenols on glutamine uptake by breast cancer cells"
- 9:45– 10:00** Helena Isabel de Freitas Branco: "Preclinical studies of the combined effect of Pirfenidone with antitumor drugs in NSCLC cell lines and xenograft mice models: evaluating effect and mechanisms of action"
- 10:00– 10:15** Rosária Catarino Seabra: "Effects and Mechanisms of Action of the Marine-Derived Compound Preussin against the TNBC Cell Line MDA-MB-231 Using 2D and 3D Cultures"

10:15 – 10:55 **KEYNOTE LECTURE 2: Bruno Sarmiento, PhD; I3S, Porto, PORTUGAL**
"Bioengineered nanomedicines to modulate the local and intracellular pharmacokinetics of anticancer drugs"

10:55 – 11:15 **BREAK**

Tumor Biology

Chairs: Salomé Pinho (IPATIMUP-I3S) & Maria Oliveira (INEB-I3S/ICBAS-UP)

- 11:15 – 11:30** Ana Catarina Pinto Azeredo: "Clarifying the mechanism underlying GRPR and TYK2 interaction in ETV1 overexpressing PrCa cells"
- 11:30 – 11:45** Bruno Miguel Maio Oliveira: "The impact of glycans as regulators of T cell-mediated immune response in gastrointestinal disorders"
- 11:45 – 12:00** Diogo Rafael Dias Coelho: "Deciphering the functional role of KRAS-induced SUSD2 downregulation in colorectal cancer"
- 12:00 – 12:15** Filipa Raquel Leal Trabuco: "Establish biomimetic 3D immune-organoids as a model to address triple-negative breast cancer radioresistance"
- 12:15 – 14:00** **LUNCH**
- 14:00– 14:15** João Munhoz Mendes Ferreira: "Impact of ER β in crosstalk between immune cells and colorectal cancer cells"
- 14:15– 14:30** Lídia Maria Pereira Faria: "Investigate the role of actin filament polymerization in promoting the acquisition of breast cancer stem-like cells downstream of P-cadherin."
- 14:30– 14:45** Rafaela Sofia Gonçalves Rodrigues: "Perirenal Adipose Tissue and Renal Cell Carcinoma"

14:45– 15:30 **KEYNOTE LECTURE 3: Célia Gomes, PhD-University of Coimbra, PORTUGAL**
"Remodeling the premetastatic niche: a critical step for lung metastasis in osteosarcoma"

END of Day 2

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KEYNOTE LECTURER's Short Biography

KEYNOTE LECTURE 1:

André L. Carvalho, MD, PhD-IARC, Lyon, FRANCE

"IARC research on cancer screening: from research to policy"



Email: CarvalhoA@iarc.fr

Homepage: https://www.iarc.who.int/staff_member/andre-carvalho/

Dr Carvalho is MD trained as a head and neck oncology surgeon from Brazil, has a PhD and 'Habilitation' from the University of Sao Paulo (Brazil), a post-doctoral fellowship from Johns Hopkins University (USA) and a Master in Public Health from the University of Washington (USA).

He is currently a Scientist at the Early Detection, Prevention and Infections Branch at the World Health Organization-International Agency for Research on Cancer (WHO-IARC) Lyon, France. Before joining IARC, Dr Carvalho worked in many multidisciplinary and translational research projects on cancer screening and early detection investigating how new technology and innovation could be affordably implemented as evidence-based approaches on population-based early detection programmes.

Dr Carvalho's main interest is to work on implementation science, building capacity and training as tools to change the cancer screening scenario, particularly in low- and medium-resource countries.

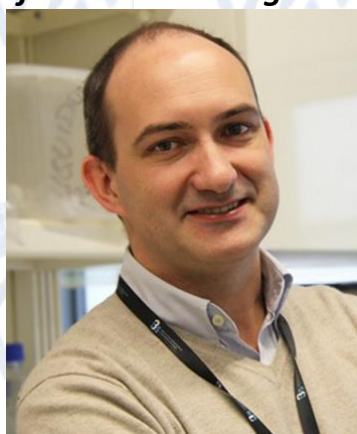
5th SYMPOSIUM OF THE MSc IN ONCOLOGY

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KEYNOTE LECTURE 2:

Bruno Sarmento, PhD-I3S, Porto, PORTUGAL

"Bioengineered nanomedicines to modulate the local and intracellular pharmacokinetics of anticancer drugs"



Email: Bruno.sarmento@i3s.up.pt

Homepage: <https://www.i3s.up.pt/research-group?x=109>

Prof. Bruno Sarmento is Principal Investigator, member of the Board of Directors and Group Leader of the Nanomedicines and Translational Drug Delivery group at the Institute for Investigation and Innovation in Health (i3S), University of Porto, Portugal and Professor at Instituto Universitário de Ciências da Saúde (IUCS).

He graduated in Pharmaceutical Sciences at the University of Porto (PT) in 2002 and completed a PhD in Pharmaceutical Nanotechnology at UP in 2007, in collaboration with Queen's University (CA), University of Copenhagen (DK) and University of Santiago de Compostela (ES). From 2007 to 2012 he held a Post-Doc position at UP, in collaboration with the University of Copenhagen. In 2008 he was appointed Assistant Professor at IUCS. He is Visiting Professor of the Post-Graduate School, UniOeste (BR) and Visiting Research Professor at Queen's University, Belfast (UK).

So far, he has supervised/co-supervised 14 Post-Docs (11 completed), 40 PhD students (28 completed) and 36 MSc students (35 completed), and 13 researcher assistants. He attracted direct competitive funding worth more than 10 M€, at national and international levels.

His current research is focused on the development of functionalized nanomedicines and materials and their application in the pharmaceutical and biomedical fields. In particular, he is interested in the establishment of nanoformulations of advanced functional biomaterials and understand their interaction with cells and biological surfaces, with interest in cancer, diabetes and infectious diseases. He has also specialized in mucosal tissue engineering models to validate functionalized nanomedicines and to perform in vitro/in vivo correlation.

He published more than 370 papers in international journals (H index 53), 54 book chapters and edited 5 books in the field of nanomedicine, biomaterials and biological barriers.

Bruno Sarmento was the Chair of the Nanomedicines and Nanoscale Drug Delivery Focus Group of the Controlled Release Society and is member of the Board of the Spanish-Portugal Local Chapter of the Controlled Release Society. He is editor of European Journal of Pharmaceutical Sciences, and member of the Editorial Advisory Board of Journal of Controlled Release, Pharmaceutics and Expert Opinion on Drug Delivery.

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KEYNOTE LECTURE 3:

Célia Gomes, PhD

iCBR - Coimbra Institute for Clinical and Biomedical Research – Faculty of Medicine of University of Coimbra

“Remodeling the premetastatic niche: a critical step for lung metastasis in osteosarcoma”



Email: cgomes@fmed.uc.pt

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Celia Gomes is a Senior Researcher at the Coimbra Institute for Clinical and Biomedical Research - Faculty of Medicine of the University of Coimbra and member of the research consortium Centre for Innovative Biomedicine and Biotechnology (CIBB) of the University of Coimbra.

She graduated in Biochemistry in 1992 from the Faculty of Sciences and Technology of the University of Coimbra and obtained an MSc in Biomedical Engineering from the Faculty of Medicine of the University of Coimbra in 1996. In 2008, she completed a Ph.D. in Biomedical Sciences at the University of Coimbra. During her Ph.D. she worked for two years at the Departments of Pathology and Radiology (Division of Nuclear Medicine) at the Leiden University Medical Center (LUMC), Leiden, Netherlands.

Her current research interests have been focused on understanding the biology of cancer stem-like cells and on their contribution to cancer progression and response to therapy and also and in the molecular mechanisms underlying metastatic dissemination. She is also interested in understanding the regulatory mechanisms shaping the anti-tumor immunity. Scientific competencies include the development of preclinical cellular and mouse tumor models, in vitro and in vivo therapeutic testing, and expertise in non-invasive optical imaging techniques.

Her scientific research has resulted in over 50 publications in peer-reviewed international journals and 2 book chapters, having over 900 citations and H-index of 20 (source: Scopus), and more than 120 communications in national and international scientific meetings as poster and oral presentations.

So far, she supervised 7 PhD students (2 completed) and 19 MSc students (17 completed).

She participates and/or participated as Principal investigator or Co-Investigator of 21 funded research projects by National and International funding entities. Has received 8 awards and/or honors and has been acting as an evaluator for several scientific national and international institutions.