

# 1<sup>st</sup> PhDay at i3S



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# From *bench* to *stage*, from *desk* to *forum*

## i3S PhD Students<sup>1</sup>

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### ABSTRACT

The PhDay is an opportunity to showcase the projects of PhD students at i3S, and to provide an exchange of ideas that will boost the sense of community among them.

Focusing on the role of the PhD student, it will also potentiate the discussion about the particularities of the Portuguese scientific system knowing that it is integrated in an European and global network.

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## ORGANIZATION

### Organizing Committee

Ana Moreira | Epithelial Interactions in Cancer

Ana Pestana | Cancer Signalling & Metabolism

Andreia Almeida | Nanomedicines & Translational Drug Delivery

Cláudia Azevedo | Nanomedicines & Translational Drug Delivery

Cláudia Brito | Molecular Microbiology

Fábio Júnio Ferreira | Ageing and Aneuploidy & Vertebrate Development and Regeneration

Filipe Marques | Bioengineering & Synthetic Microbiology

Georgina Alves | Molecular Parasitology

Helena Macedo | Nanomedicines & Translational Drug Delivery

Joana Loureiro | Genetics of Cognitive Dysfunction

José Henrique Teixeira | Microenvironments for New Therapies

Rute Oliveira | Bioengineering & Synthetic Microbiology

Sara Vaz | Ageing and Aneuploidy

### Scientific Committee

Mário Barbosa | i3S Director

Catarina Leite Pereira | Microenvironments for New Therapies

Danica Drpic | Chromosome Instability & Dynamics

Estrela Neto | Neuro-skeletal Circuits

João Vinagre | Cancer Signalling & Metabolism

Pedro Mendes Rodrigues | Thymus Development and Function

Stefan Mereiter | Glycobiology in Cancer

Tiago Silva | Neurolipid Biology

## PROGRAMME

08h30 Registration

09h00 **Symposium Opening & Welcome**

*Corino de Andrade Auditorium*

Mário Barbosa | i3S Director

09h15 **ORAL COMMUNICATIONS I**

*Corino de Andrade Auditorium*

*Chairs: Andreia Almeida & Tiago Silva*

**Miguel Alves-Ferreira** | UnIGENe

“Phenotypic variability in Familial Amyloid Polyneuropathy: transthyretin genetic networks from *C. elegans* to human models”

09h25 **Rute Oliveira** | Bioengineering and Synthetic Microbiology

“Role and molecular mechanisms of a novel ECF sigma factor”

**Daniela Pereira de Vasconcelos** | Microenvironments for New Therapies

“Chitosan with lower degree of acetylation decrease NLRP3 inflammasome response”

**Bianca Lourenço** | Biomaterials for Multistage Drug and Cell Delivery

“Deconstructing the role of CD44v6 in gastric cancer using stromal cell-mediated decellularized matrices”

**Rúben Pereira** | Biomaterials for Multistage Drug and Cell Delivery

“A modular thiol-ene photoclickable bioink for 3D printing of cell-instructive microenvironments”

10h00 **ORAL COMMUNICATIONS II**

*Corino de Andrade Auditorium*

*Chairs: Georgina Alves & Pedro Rodrigues*

**Cláudia Brito** | Molecular Microbiology

“Myosin-IIA tyrosine phosphorylation regulates actomyosin cytoskeleton”

10h10

**Ana Cardoso** | Immune Regulation

“The anti-inflammatory cytokine IL-10 is a new determinant of hematopoietic lineage commitment”

**Mónica Sá** | Parasite Disease

“Dissecting the molecular basis for the tissue tropism of *Plasmodium* sporozoites in the mammalian host”

**Ana Rafaela Teixeira** | Parasite Disease

“Improving vaccines against *Plasmodium*’s preerythrocytic phase”

**Rui Ribeiro** | Ageing and Aneuploidy

“*In vivo* amelioration of aging hallmarks by transcriptional modulation of mitotic proficiency”

10h45

Coffee break

*i3S Main hall*

11h15

### **ORAL COMMUNICATIONS III**

*Corino de Andrade Auditorium*

*Chairs: José Henrique Teixeira & Danica Drpic*

**Vanessa Nunes** | Chromosome Instability and Dynamics

“Spatiotemporal regulation of mitotic spindle assembly”

11h25

**Danilo da Silva Lopes** | Chromosome Instability and Dynamics

“Measuring tubulin post-translational modifications in cancer”

**Ana Coelho Almeida** | Chromosome Instability and Dynamics

“Establishing the simplest *in vitro* mammalian model system to investigate chromosome segregation fidelity during mitosis”

**Sara Vaz** | Ageing and Aneuploidy

“Age-dependent sensitivity to anti-mitotics: the role of FoxM1 and its therapeutic potential”

**Monika Vilares** | Ageing and Aneuploidy

“Small-molecule inhibition of aging-associated chromosomal instability”

12h00

**ORAL COMMUNICATIONS IV**

*Corino de Andrade Auditorium*

*Chairs: Ana Margarida Moreira & Stefan Mereiter*

**Mariana Osswald** | Epithelial Polarity and Cell Division

“Decoding epithelial organization at mitotic exit”

12h10

**Margarida Gonçalves** | Epithelial Polarity and Cell Division

“The impact of polarized intercellular adhesion on epithelial cytokinesis”

**Fábio Júnio Ferreira** | Ageing and Aneuploidy, Vertebrate Development and Regeneration

“Transcriptional *trans* and *cis* regulation during ageing”

**Henrique Duarte** | Glycobiology in Cancer

“ErbB2 Glycosylation Landscape in Gastric Cancer Cells – A Novel Functional Target?”

**Ana Pestana** | Cancer Signalling and Metabolism

“The problems of establishing a new model for an old player”

12h45

**Lunch and Poster Session**

i3S Main hall

14h30

**Session on Critical Thinking and Science**

*Corino de Andrade Auditorium*

**Rui Vieira da Cunha** | FLUP, University of Porto

15h30 **Round Table: “A PhD for the XXI century”**

*Corino de Andrade Auditorium*

**Henrique Leitão** | CIUHCT, University of Lisbon

**Marta Agostinho** | EU-Life, Barcelona

**Anna Olsson** | IBMC-i3S, University of Porto

**Mário Barbosa** | INEB-i3S, University of Porto

**Carla Oliveira** (chair) | IPATIMUP-i3S, University of Porto

17h00 Coffee break

*i3S Main hall*

19h15 **Closing address**

*Mariano Gago Auditorium*

Cláudia Brito & Fábio Júnio Ferreira | Forum of i3S PhD

Students

19h30 **Symposium chill out, PhD in the kitchen and Social Activities**

*Cantine and cantine's garden*



