



ITQB NOVA



PhD projects presentation

23rd & 24nd May 2024 (09:30 -17:30; 09:30-13:00), ITQB NOVA auditorium

Curricular Unit: Research Training II

Chairperson: Cristina Silva Pereira

Evaluators: Ricardo Louro (*co-coordinator of the PhD program*);

João Vicente and Dmitry Semchonok (*Biological Chemistry*); Sarela Santamarina and Pedro Matos Pereira (*Biology*); Isabel Abreu & Carlota Vaz Patto (*Plant Sciences*); Ana Petronilho & Pedro Mateus (*Chemistry*); Catarina Brito & Ana Coroadinha (*Technology*)

23rd May 2024 morning (10 min presentation, 10 min questions)

[*The first name is the main supervisor; institutions only mentioned if different from ITQB NOVA or IBET*]

1	9:30-9:50	Ana Lúcia Roupa Botelho	<i>Staphylococcus epidermidis</i> : Host-microbe Interactions in the frontier between health and disease Supervisors: Maria Miragaia (miragaia@itqb.unl.pt); Mariana Camoez, Paul Fey
2	09:50-10:10	Beatriz Alexandra Carones Painho	Bioengineering dual-targeting CAR-T cells to treat relapse/refractory T cell acute lymphoblastic leukemia Supervisors: Margarida Serra (mserra@ibet.pt); Marta Costa
3	10:10-10:30	André Miguel da Costa Cairrão	Boosting the production of antimicrobial compounds by macroalgae, exploring differences in native and invaded habitats Supervisors: Cristina Silva Pereira (spereira@itqb.unl.pt); Diego Hartmann (Sea4Us)
4	10:30-10:50	Teresa Duque da Silva Pissarro	Marine microalgae microbiome: a source of potent antifungal compounds Supervisors: Catarina Pimentel (pimentel@itqb.unl.pt); Francisco Nascimento
Coffee Break (30 min)			

5	11:20-1 1:40	Raquel Mendes Bernardino	Uncovering the mechanism of a respiratory complex involved in inflammatory gut sulfide production Supervisor: Inês Cardoso Pereira (ipereira@itqb.unl.pt)
6	11:40-1 2:00	Rodrigo Manuel Mendes Martins	Unravelling marine microalgae indole-3-acetic acid (IAA) biosynthesis and signalling pathways towards impacts in biomass and high-value compound production. Supervisors: Francisco Nascimento (francisco.nascimento@ibet.pt); Teresa Crespo; Sarah D'Adamo (WUR)
7	12:00-1 2:20	Bárbara Silvestre dos Santos Cardoso Fernandes	Protein-based nanoparticles for targeted drug delivery in type II diabetes Supervisors: João Vicente (jvicente@itqb.unl.pt); Rita Oliveira
8	12:20-1 2:40	Marta Vintém da Cunha	Development of an Innovative and Multidisciplinary Pipeline to Combat RNA Viruses Supervisors: Margarida Saramago (margaridasaramago@itqb.unl.pt); Rute G. Matos, Cecília M. Arraiano
9	12:40-1 3:00	Salomé Mateus Forte Neto	Improving ADDomer manufacturability with continuous downstream processing Supervisors: Ricardo Silva (rsilva@ibet.pt); António Roldão
13:00		Lunch!	

23rd May 2024 afternoon (10 min presentation, 10 min questions)

10	14:00-14:20	Eunice de Melo Gomes Gonçalves	Cell-based sensing systems for infectious and non-infectious diseases: a gene therapy approach Supervisors: Sofia Fernandes (as.fernandes@ibet.pt); Rui Nobre
11	14:20-14:40	Catarina de Jesus Martins Alves	Unveiling the players in the iron metabolism of anammox bacteria Supervisors: Filipe Folgosa (f.folgosa@itqb.unl.pt); Miguel Teixeira
12	14:40-15:00	Frederico Miguel da Conceição Lourenço	Role of the bacterial YtfE-family of proteins in the assembly of iron-sulfur centres Supervisor: Lígia Saraiva (lst@itqb.unl.pt)
13	15:00-15:20	Ana Eduarda Lopes Meliciano	Advancing the manufacturing of extracellular vesicles derived from human induced pluripotent stem cells toward novel cardiac regenerative medicine Supervisor: Margarida Serra (m.serra@ibet.pt)

14	15:20-15:40	Maria Constança Duarte Ferreira Bertrand	Bacterial catabolic modulation of microalgae indole-3-acetic acid (IAA): impacts on microalgae growth and microbiome assembly Supervisors: Francisco Nascimento (francisco.nascimento@ibet.pt); Teresa Crespo
Coffee Break (20 min)			
15	16:00 -16:20	Miguel Ângelo de Freitas Mira	New Approaches Towards Parkinson's Disease Treatment: Targeting TRPML1 Channel Supervisors: Rita Ventura (rventura@itqb.unl.pt); Soraia Santos; Vânia Batalha (BIAL)
16	16:20 -16:40	Miguel Ângelo Matos Graça	Bridging genetic engineering and transcriptomics of insect cells to enhance production of biopharmaceuticals Supervisors: António Roldão (aroldao@ibet.pt); Jose Escandel
17	16:40 -17:00	Mariana Sofia Cosme Fonseca Araújo	The dynamics of staphylococci in the progression of atopic dermatitis Supervisor: Maria Miragaia (miragaia@itqb.unl.pt); Rita Sobral and Nuno Faria
18	17:00-17:20	Cláudia Cristina Sobreiro Paiva	Improving lentiviral vector bioprocessing using an engineering approach Supervisors: Cristina Peixoto (peixoto@ibet.pt); António Roldão
17:20-17:30		Debriefing and applauses!	

24th May 2024 morning (10 min presentation, 10 min questions)			
19	9:30-9:50	Shakiba Gholami	The role of Base Excision Repair (BER) and macromolecular damage protection for extreme radiation resistance of <i>Deinococcus radiodurans</i> Supervisors: Elin Moe (elinmoe@itqb.unl.pt); Célia Maria Romão
20	09:50-10:10	Tiago Daniel Henriques Lopes	Exploring multi-substrate specificity in galactose oxidases for enlarged biotechnological applications Supervisor: Lígia Martins (lmartins@itqb.unl.pt)

21	10:10-10:30	Bernardo Lucas de Jesus Raimundo	Investigating the interplay between autonomous immunity and intracellular <i>S. aureus</i> Supervisor: Pedro Matos Pereira (pmat@itqb.unl.pt)
22	10:30-10:50	Nuno Miguel Melo Machado	Electrochemical valorization of CO ₂ powered by engineered microbial cells Supervisor: Felipe Conzuelo, (felipe.conzuelo@itqb.unl.pt)
Coffee Break (30 min)			
23	11:20-11:40	Joana Filipa Nunes Cavadas	Investigating the role of gut microbiota in host metal homeostasis Supervisor: Sarela Garcia-Santamarina (sarela.santamarina@itqb.unl.pt)
24	11:40-12:00	Inês Isabel Pereira Correia	Uncovering AAV-induced activation in immune competent Human hepatic 3D models Supervisors: Catarina Freitas (catarina.freitas@ibet.pt); Gabriela M. Silva
25	12:00-12:20	Rita Isabel Carvalho Teixeira	Small biologics discovery: unlocking new antivirals for pandemic preparedness Supervisors: Cláudio M. Soares, ITQB-NOVA (claudio@itqb.unl.pt); Diana Lousa; Bruno E. Correia (EPFL)
26	12:20-12:40	David Ruben Quenedit Peralta Reis	A Microfluidics-based approach to create catalytic coacervates Supervisors: Ana Pina (ana.pina@itqb.unl.pt); Wim De Malsche (VUB, BE)
12:40-13:00		Debriefing and gathering! Lunch	