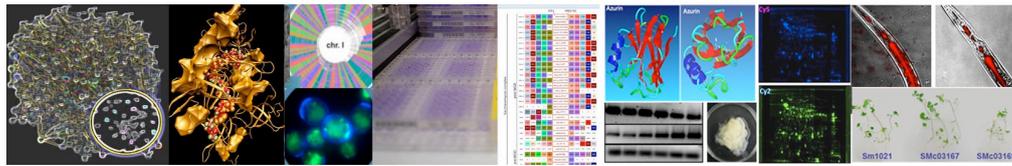


# 3<sup>rd</sup> JOINT BIOTECnico AND AEM PhD PROGRAMS WORKSHOP



[DP\_AEM]  
DOCTORAL PROGRAM IN  
APPLIED AND ENVIRONMENTAL  
MICROBIOLOGY



Instituto Superior Técnico, Campus Alameda

11-12 June 2018

-IST Congress Center-

## Monday 11 June 2018

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**14:00 – Welcome Session** - Directors of the BIOTECnico (Prof. **Isabel Sá-Correia**), and the AEM (Prof. **Margarida Casal**) PhD programs

### 14:15 – 15:30 3<sup>rd</sup> year AEM Students

14:15 - Deciphering the role of exposed surface residues in protein stability. **Mário Barroca**

14:30 - Insights into the mechanism of antimicrobial activity and its exploitation for developing new therapies against clinically relevant bacteria. **Ana Margarida Pereira**

14:45 - Yeasts as biocontrol agents of fungal phytopathogenic diseases. **Pedro Ferraz**

15:00 - Function and regulation of carboxylic acid transporters in *Candida albicans* and *C. glabrata* and their role in biofilm formation, antifungal drug resistance and phagocytosis. **Rosana Alves**

15:15 - Designing synthetic *Ashbya* cell factories. **Rui Silva**

### 15:30 - Coffee-break

### 16:00 – 17:00 3<sup>rd</sup> year BIOTECnico students

16:00 - *Burkholderia cepacia* complex bacteria surface variation during long-term infection of the cystic fibrosis lung. **Amir Hassan**

16:15 - Exploring the transcriptional landscape of antifungal resistance in *Candida glabrata*: from new regulators to new effectors. **Pedro Pais**

16:30 - Evolution of Phage Biopanning Strategies to Identify Affinity Peptides to Purify Fab Fragments. **André Nascimento**

16:45 - Gold Nano-Beacons for Nucleic Acid Detection: Biosensing with Plasmon-Enhanced Fluorescence. **David Botequim**

**Tuesday 12 June 2018**

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**9:30 – 2<sup>nd</sup> year AEM students**

9:30 - Exploring yeast as a tool to unravel the anticancer activity of bovine lactoferrin. **Cátia Pereira**

9:45 - Post-transcriptional control strategies in Synthetic Biology. **Patricia Apura**

10:00 - Systems epidemiology to devise new interventions for multi-host tuberculosis. **Ana Reis**

10:15 - Syngas bioconversion by a defined co-culture using an axial agitation pressured bioreactor. **Ana Luisa Pereira**

**10:30 – Coffee- break**

11:00 – Ecological characterization of mixed species biofilm associated with bacterial vaginosis. **Aliona Rosca**

11:15 - Inter-kingdom biofilm formation between bacteria and filamentous fungi isolated from a drinking water distribution system. **Tiago Afonso**

11:30 - Identification and functional characterization of novel plasma membrane carboxylate transporters. **Maria Antónia Silva**

11:45 – Production of enzyme in co-culture with *Trichoderma viride* under solid state fermentation. **Ziva Vipotnik**

12:00 - Interactions between emerging chemical contaminants and aquatic biota: When they are not alone. **Nuno Martins**

12:15 - Genome-wide identification of yeast genes required for tolerance to multiple stresses occurring during bioethanol production processes **Luis Martins**

**12:30– 2nd year BIOTECnico students**

12:30 - From susceptible to multiple azole resistant: The in vitro Evolution of a *Candida glabrata* clinical isolate. **Mafalda Cavalheiro**

12:40 - *Escherichia coli* Genome Engineering for Improved Minicircle Production. **Cláudia Alves**

12:50 - Differential gene expression of *Burkholderia cenocepacia* trimeric autotransporter adhesin BCAM2418 in the early stages of bacteria-host-cell interactions. **Andreia Pimenta**

13:00 - Determination of proteolytic activity in real-time using plasmonic nanosensors. **Rui Silva**

**13:10 – Lunch**

**14:00 – 1<sup>st</sup> year AEM students**

14:00 - Defense priming effect of associative bacteria on wheat plants. **Paolo Vaglini**

14:10- Study of Copper transporters in yeast and mammalian cells. **Cláudia Antunes**

14:20 - Generating synergetic phage - antibiotic cocktails to control *Pseudomonas aeruginosa* and *Staphylococcus aureus* biofilm-associated infections. **Ergun Akturk**

14:30 - Yeast response and tolerance to acetic acid: focus on the cell envelope. **Ricardo Ribeiro**

**14:40– 1<sup>st</sup> year BIOTECnico students**

14:40 – Improving transaminase activity for industrial bioprocess applications. **Carlos Rodrigues**

14:50 – Biomanufacturing of DNA-origami nanostructures for bio-imaging. **Ana Rita Silva**

15:00 - Mechanistic insights on the role of CgHaa1- and CgPdr1- pathways in stress residence and pathogenesis of *Candida glabrata*. **Sara Salazar**

15:10 – Deciphering the *Burkholderia cepacia* complex virulome using the infection model *Caenorhabditis elegans*. **Tiago Pita**

**15:20 – Closing session**

**15:30 – Coffee-break**

**16:00 – Meeting of AEM students with the Directive Board**

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