



DEPARTAMENTO DE BIOENGENHARIA

Newsletter
Fevereiro 2019

Editorial

A toda comunidade DBE,

Após oito edições mensais regulares da newsletter do DBE

(<https://fenix.tecnico.ulisboa.pt/departamentos/dbe/newsletter>) divulgando os principais eventos realizados e participados por membros e colaboradores do DBE chegou-se a uma nova fase, onde pretendemos implementar melhorias. Para isso, o vosso contributo será essencial quer para o sucesso desta newsletter quer para o sucesso do DBE.

Sigam-nos e participem no Twitter, Facebook e LinkedIn do DBE (clique nos links no final da newsletter).

Com os melhores cumprimentos,

A equipa editorial

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NOTÍCIAS

Joaquim Cabral Elected Director of iBB



January 27, 6:56 PM

The Scientific Council of iBB has elected **Joaquim Cabral** for a new mandate as its Director. Alongside with the management of iBB, Prof. Cabral will continue to serve as the leader of the Stem Cell Engineering research group (SCERG). The election took place at the Alameda campus of IST on the 19th January 2019.

EVENTOS

**AIM Doctoral Program – Call for applications**

The FCT funded Doctoral Program AIM (Advanced Integrated Microsystems) is opening a call for applications for 7 doctoral grants.

The application period is 1 February to 31 March 2019. More details can be found [here](#)

January 2019

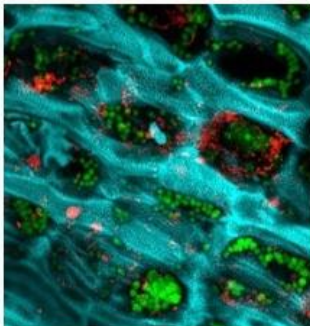


Débora Rodrigues / Microsc

LABORATÓRIOS ABERTOS 2019

O Departamento de Bioengenharia (DBE) do IST, com a colaboração dos Núcleos de Engenharia Biológica e Engenharia Biomédica, realizará de 4 a 8 de fevereiro de 2019, os “Laboratórios Abertos do DBE 2019”, iniciativa destinada aos alunos do ensino secundário.

Prevê-se a participação de mais de 700 alunos, oriundos de 20 escolas. A iniciativa irá permitir aos alunos do ensino secundário a possibilidade de contactar com investigadores, assistir a palestras e participar em pequenas demonstrações experimentais das áreas científicas de Ciências Biológicas, Bioengenharia, Robótica, Biomecânica e Biomateriais, Células Estaminais e Medicina Regenerativa.

BAGECO 15: Ecosystem Drivers in a Changing Planet

From www.bageco.org - January 25, 9:29 AM

The 15th Symposium on Bacterial Genetics and Ecology, dedicated to the topic “Ecosystem drivers in a changing planet”, will be held in Lisbon on 26–30 May 2019. The event brings together leading experts in the fields of applied and environmental microbiology, metagenomics, bacterial evolution and related areas.

BAGECO 15 will provide a forum

to discuss the roles played by microorganisms in the functioning of natural and man-made ecosystems, and as sources of inspiring metabolites and materials of use in a future circular economy. The 5-day symposium is chaired by [Rodrigo Costa](#) from BSRG-IBB. Click on title to learn more.

PROVA DE MESTRADO

[Prova de Dissertação de Mestrado em Engenharia Biológica da Licenciada Melike Yilmaz](#)

Título da Dissertação: Predicting the mechanisms of probiotic activity in *Saccharomyces boulardii*: a contribution to the development of the ProBioYeast database

Data: 31 de janeiro de 2019, 17 h, Local: Anfiteatro QA1.1

SEMINÁRIO**Presentation – Thomas Bolton (EPFL)**

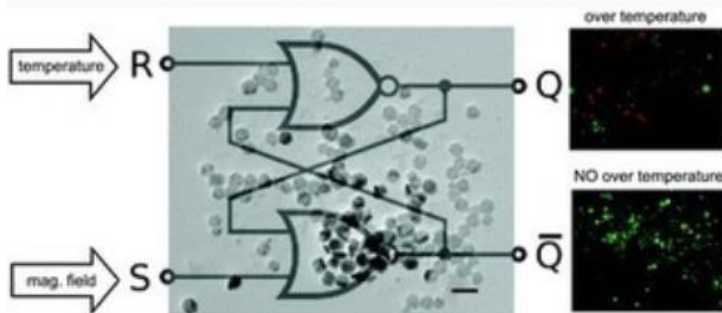
© January 24, 2019 No Comments

Last thursday (17th January 2019), Thomas Bolton from the Medical Image Processing Lab (MIP) of Ecole Polytechnique Fédérale de Lausanne (EPFL) visited our Lab and presented his work on:

Novel ways to probe brain function: beyond stationary functional connectivity measurements

PUBLICAÇÕES

Temperature-Responsive Nanomagnetic Logic Gates for Cellular Hyperthermia



From pubs.rsc.org - January 15, 4:32 PM

The Biomolecular Big Brother can be described as the ability to control and monitorize biological processes, increasing the potential of Personalized Medicine. Rui Silva from BERG-iBB and co-authors from the University of Aveiro have developed a system capable of recording temperature fluctuations above a defined threshold, which can answer with Yes/No to the question "did the system locally exceed 42 °C degrees?". Nanoplatelets were applied in a cellular hyperthermia assays using prostate cancer cells (PC-3 line) and different thermal doses were tested. For lower thermal doses where the threshold was not crossed and most cells appeared to be viable, whilst in high thermal doses assays a loss in cellular viability was evident. The work was published in the journal [Materials Horizons](#).

LINKS IMPORTANTES

INESC MN

Microsystems and
Nanotechnologies



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