

MESTRADO EM BIOTECNOLOGIA - DISSERTAÇÕES 2018/19 e 2017/18

Instituições/departamentos e siglas

Allmicroalgae – Natural Products

Bayer

Biopremier - BPMR

Champalimaud Centre for the Unknown

CiiEM - Centro de Investigação Interdisciplinar Egas Moniz, Instituto Universitário Egas Moniz

DCM - Departamento de Ciência dos Materiais da FCT NOVA

DCSA - Departamento de Ciências Sociais Aplicadas da FCT NOVA

DCTB - Departamento de Ciências e Tecnologia da Biomassa da FCT NOVA

DCV - Departamento de Ciências da Vida da FCT NOVA

DQ - Departamento de Química da FCT NOVA

EPS - Energy Pulse Systems

FCT NOVA - Faculdade de Ciências e Tecnologia da Universidade NOVA de Lisboa

iBET - Instituto de Biologia Experimental e Tecnológica

iMM - Instituto de Medicina Molecular João Lobo Antunes

INESC - Instituto de Engenharia de Sistemas e Computadores do Instituto Superior Técnico

INSA - Instituto Nacional de Saúde Doutor Ricardo Jorge

Ism2 - Institut des Sciences Moléculaires de Marseille

ITQB NOVA - Instituto de Tecnologia Química e Biológica António Xavier

NOVA Medical School - Faculdade de Ciências Médicas

Vrije Universiteit Brussel

Em 2018/19 e 2017/18, 32% dos estudantes escolheu o DQ para realizar o trabalho de dissertação, e 32% escolheu o iBET.

Os restantes 36% distribuiram-se por várias instituições/departamentos.

Ano lectivo 2018/19

Expression, purification and characterization of a protein isoform involved in cyclic nucleotide signaling in humans

iBET e Bayer

Orientadores: Lígia Nobre (iBET) e Peter Sandner (Bayer)

Optimization of PCR microfluidic conditions for DNA amplification of gene associated with prostate cancer

DCV

Orientador: Pedro Viana Baptista

Advanced cell-based biosensors for detection of label-free viral pathogens

iBET

Orientador: Ana Sofia Coroadinha

Assessment of the cellular effects of ingested titanium dioxide nanomaterials in intestinal cells

INSA

Orientador: Henrique Louro

Design of a novel phage display vector to improve enrichment of phages with antigen-specific Nanobodies and to identify the Nanobody clones of highest affinity

Cellular and Molecular Immunology, Vrije Universiteit Brussel

Orientador: Serge Muyldermans

Desenvolvimento de substratos biopoliméricos para crescimento de derme reconstruída

DQ e ITQB NOVA

Orientadores: Filomena Freitas (DQ) e Abel Oliva (ITQB NOVA)

Fitodepuração de efluentes contaminados obtidos em processos de carbonização hidrotermal

DCTB

Orientadores: Ana Luísa Fernando e Margarida Gonçalves

Production of antibiotics and biopolymer by the bacterium *Pseudomonas chlororaphis* using glycerol

DQ

Orientadores: Cristiana Torres e Bárbara Almeida

Evolução dirigida com vista à optimização de fermentações de sumos de fruta

DCV e CiiEM

Orientadores: Paula Gonçalves (DCV) e Madalena Salema-Oom (CiiEM)

Green synthesis route to Copper and Iron nanoparticles

DQ

Orientadores: Pedro Tavares e Alice Pereira

Development of antibodies against the Notch pathway ligand JAG1 using phage display technology

iBET

Orientadores: Ana Barbas e Gabriela Silva

Protein based gas-sensing materials for detection of fish deterioration

DQ

Orientador: Cecília Roque

Production of natural elastomers (mcl-PHA) from sugar-rich substrates obtained through hot compressed water hydrolysis of grape pomace

DQ

Orientadores: Filomena Freitas e Alexandre Paiva

Heterotrophic growth of microalgae strains – screening, optimization and scale-up

Allmicroalgae - Natural Products

Orientadores: Joana Gabriela Laranjeira da Silva e Hugo Pereira Galvão

Chimeric lentiviral vectors for gene therapy

iBET

Orientador: Ana Sofia Coroadinha

PHAs from mixed cultures as biopolymers for biodegradable films and flowerpots for plant transport

DQ

Orientadores: Maria Ascensão Reis e Anouk Duque

Bioethanol production by Enterobacter A47: proof-of-concept

DQ

Orientador: Cristiana Torres

Monitoring cell cultures in real time in a biochip

INESC

Orientador: João Pedro Conde

Developing and improving purification strategies for biopharmaceuticals

iBET

Orientadores: Cristina Peixoto e Ricardo Silva

Fermentação do bagaço de uva branca por *S. bombicola* para produção de soforolípidos

CiiEM e DQ

Orientadores: Madalena Salema-Oom (CiiEM) e Susana Barreiros (DQ)

Production of xylitol by the yeast *Komagataella pastoris*

DQ

Orientador: Maria Ascensão Reis

Extraction of cannabis seed oil using supercritical CO₂ and evaluation of its bioactivity

DQ

Orientador: Alexandre Paiva

Ano lectivo 2017/18**Valorization of brewery waste through polyhydroxyalkanoates production**

DQ

Orientadores: Anouk Duque e Mónica Carvalheira

Development of biopolymer-based anti-microbial membranes

DQ

Orientadores: Filomena Freitas e Luísa Neves

Fermented agricultural wastes as feedstock for PHA production with photosynthetic mixed cultures operated under a permanent feast regime

DQ

Orientadores: Joana Fradinho e Maria Ascensão Reis

Cloning of FUT8 gene and characterization of its expression in human cell lines

DCV

Orientadores: Paula Videira e Margarida Castro Caldas

Design and synthesis of small protein-based scaffolds for bioengineering applications

DQ e Ism2

Orientadores: Cecília Roque (DQ) e Olga Iranzo (Ism2)

Genotyping circulating tumor DNA for Precision Oncology

iMM e DCSA

Orientadores: Maria Carmo-Fonseca (iMM) e Fernanda Llussá (DCSA)

Unveiling human Cardiac Stem Cells role in myocardial ischemia-reperfusion injury

iBET

Orientadores: Margarida Serra e Patrícia Gomes-Alves

Bioprocess engineering of insect cells for next generation of Influenza vaccines

iBET

Orientadores: Antonio Roldão e Inês Isidro

Development of curcumin lipid formulations for food applications: transport, permeability and safety evaluation on a mucus-secreting intestinal epithelial cell model

iBET

Orientadores: Ana Matias e Vanessa Gonçalves

Functionalization of recombinant proteins for matrix conjugation in a bifunctional bacterial infection biosensor

DCV

Orientadores: Rita Sobral e Inês Grilo

pH and Photoresponsive Soft Materials for Biological applications

iBET

Orientador: Margarida Serra

Can polyphenols metabolites ameliorate the outcome of DR?

NOVA Medical School

Orientador: Gabriela Silva e Daniela Santos

Novel Alginate-Chitosan aerogel fibres for potential wound healing applications

iBET

Orientadores: Vanessa Gonçalves e Frédéric Gaspar

Depicting the Tumor-Associated Macrophage phenotype employing 3D breast cancer cell models

iBET

Orientadores: Catarina Brito e Sofia Rebelo

Production of xylitol by the yeast *Komagataella pastoris*

DQ

Orientador: Filomena Freitas

Engineering Cardiac Tissue Using Human Induced Pluripotent Stem Cell Derivatives

iBET

Orientador: Margarida Serra

The effect of CCBE1 in hPSC differentiation towards cardiac lineage

iBET

Orientadores: Margarida Serra e Patrícia Gomes-Alves

EGFR glycosylation in cancer

iBET

Orientadores: Patrícia Gomes-Alves e Lara Marcos da Silva

Impact of the metabolic program of germline cells in feeding behavior

Champalimaud Centre for the Unknown, Neuroscience Programme

Orientadores: Carlos Ribeiro e Zita Santos

Selective platelet activation by pulsed electric fields for stem cell culture

iBET e EPS

Orientadores: Vítor Espírito Santo (iBET) e Luis Redondo (EPS)

Nature based peptide hydrogels as enzyme mimetics

DQ

Orientadores: Ana Sofia Pina e Cecília Roque

Technology-market transfer plan of food and environmental analysis kits

DCSA e Biopremier - BPMR

Orientadores: Fernanda Llussá (DCSA) e Joana Raquel Freitas Dias da Silva (Biopremier - BPMR)

Regulation of T cell fitness and fuction in the tumour microenvironment

iMM

Orientadores: Karine Serre e Sofia Mensurado