



# ANA MARGARIDA FERNANDES PEREIRA DE MATOS

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## EDUCATION AND TRAINING

### **BioSys PhD Program | Faculty of Sciences, University of Lisbon, Lisboa (Portugal)**

From 15 January 2014 - ongoing

Major Topics: Biological Systems, Functional and Integrative Genomics

### **Master's degree in Emerging Infectious Diseases | Medical faculty, University of Lisbon, Lisboa (Portugal)**

From 15 November 2010 to 19 September 2013

Major Topics: Immunology, Epidemiology, Parasitology and Infectiology

EECC/Ranking – A

### **Bachelor in Health Sciences | University of Lisbon, Lisboa (Portugal)**

From 13 September 2007 to 23 July 2010

Major topics: Health Sciences and BioMedicine

EECC/Ranking – C

### **Biosafety training for use of the BSL3 Facility | Molecular Medicine Institute (IMM), Lisboa (Portugal)**

From 28 February 2013 to 01 March 2013

### **Workshop on Bioinformatics and Systems modelling | Department of Chemistry and Biochemistry, University of Lisbon, Lisboa (Portugal)**

From 21 November 2011 to 25 November 2011



## WORK EXPERIENCE

### **PhD Student | BioSystems & Integrative Sciences Institute (BioISI) in collaboration with EMBL**

From January 2014 to March 2018

PhD thesis entitled “Search for new modulators of F508del-CFTR retention at the plasma membrane of epithelial cells.”

Coordinated by: Professor Paulo Matos, PhD, Member of Oncobiology and Signaling Pathways Unit, INSA/BioISI, Lisboa and Rainer Pepperkok, PhD, Head of the Advanced Light Microscopy Core Facility, EMBL, Heidelberg”

### **Research Student | BioSystems & Integrative Sciences Institute (BioISI) in collaboration with the Molecular Medicine Institute (IMM)**

From November 2011 to September 2013

Master thesis entitled "Characterization of differentially expressed microRNAs in HIV-1 and HIV-2 infection in Human CD4-T cells: a role for miR-34c-5p in T-cell activation and response to HIV infection."

Coordinated by: Professor Margarida Gama Carvalho, Head of Gene Expression and Bioinformatics Unit, BioISI, Faculty of Sciences, University of Lisboa and Professor Ana Espada Sousa, director of the Clinical Immunology unit, Molecular Medicine Institute, Lisboa (Portugal)

### **Volunteer | BioSystems & Integrative Sciences Institute (BioISI)**

From October 2010 to November 2011

Basic training in molecular biology techniques as part of a research project entitled "Validation of SMN interacting RBPs identified by Mass-spectrometry"

Coordinated by Professor Margarida Gama Carvalho, Head of Gene Expression and Bioinformatics Unit, BioISI, Faculty of Sciences, University of Lisboa, Lisbon (Portugal)



## **PERSONAL SKILLS**

- Eight years of laboratory experience
- Laboratory Skills: Cell culture, RNA extraction from primary and cultured cells, cDNA synthesis, PCR, RT-qPCR, siRNA, Protein extraction from primary and cultured tissues, Western blot, Plasmid cloning, Plasmid transfection (lipofection and electroporation), Immunofluorescence staining, Confocal microscopy, HIV viral Infection
- Driving license
- PADI Open Water Diver course
- Mother tongue: Portuguese
- Other languages: English



## **EDUCATION AND TRAINING**

### **Publications**

Gama JA, Reis AM, Domingues I, Mendes-Soares H, Matos AM, et al. (2013) Temperate Bacterial Viruses as Double-Edged Swords in Bacterial Warfare. PLoS ONE 8(3): e59043. doi:10.1371/journal.pone.0059043

C. A. Loureiro, A. M. Matos, Â. Dias-Alves, J. F. Pereira, I. Uliyakina, P. Barros, M. D. Amaral, P. Matos, A molecular switch in the scaffold NHERF1 enables misfolded CFTR to evade the peripheral quality control checkpoint. Sci. Signal. 8, ra48 (2015)

Andreia, J Amaral, Jorge Andrade, Russel, B Foxall, Paula Matoso, Ana, M Matos, Rui Soares, Cheila Rocha, Christian, G Ramos, Rita Tendeiro, Ana Serra-Caetano, Jose Afonso Guerra-Assunção, Mariana Santa-Marta, João Gonçalves, Ana E Sousa, Margarida Gama-Carvalho; miRNA profiling of human naive CD4 T cells links miR-34c-5p to cell activation and HIV replication; The EMBO Journal (2016); DOI:10.15252/embj.201694335

Matos AM, Matos P. Mini Review Open Access, Combination therapy in Phe508del CFTR: how many will be enough? J Lung Heal Dis [Internet]. 2018 [cited 2018 Feb 16]; 2(1):9–16.

## Oral Communications

Small non-coding RNAs: central players in the CD4+ T cell response to retroviral infection; Gama-Carvalho M, Amaral AJ, Andrade J, Matos AM, Serra-Caetano A, Matoso P, Soares R, Tendeiro R, Foxall RB, Santa-Marta M, Gonçalves J, Sousa AE; FEBS International Workshop, "New Developments in RNA Biology" 1-4 September 2012, Tavira, Portugal

miR-34c-5p is a novel regulator of naive T-cell activation that impacts HIV replication; Andreia Amaral, Jorge Andrade, Ana Margarida Matos, Russel Foxall, Paula Matoso, Mariana Santa-Marta, Rita Tendeiro, Ana Serra-Caetano, Rui Soares, João Gonçalves, Ana Sousa, Margarida Gama-Carvalho; RNA 2013, Davos, Switzerland, 11-16 June, 2013

Mutualistic Parasites: when hosts and parasites have their interests aligned; Dionisio F, Gama JA, Reis AM, Domingues I, Mendes-Soares H, Matos AM; VIII Encontro Nacional de Biologia Evolutiva; 21st December 2012, Oeiras, Portugal

Bacteria Use Viruses as Biological Weapons; Gama JA, Reis AM, Domingues I, Mendes-Soares H, Matos AM, Dionisio F; TiBE2012, Trends in Biodiversity and Evolution: Integrative Approaches in Evolutionary Biology; 6-7th December 2012, Porto, Portugal

## Poster Communications

siRNA screen for modulators of CFTR surface retention; Ana Margarida Matos, Rainer Pepperkok, Paulo Matos; Advanced Lecture Course on Systems Biology, SYSBIO 2016; February 28 - March 5, 2016; Innsbruck, Austria

Anchoring to the actin-cytoskeleton is not essential to retain functional F508del-CFTR at the plasma membrane; Ana Matos, Joana Pereira, Inna Uliyakina, Margarida Amaral, Paulo Matos; European Cystic Fibrosis Society, 12th ECFS Basic Science Conference 25 March - 28 March 2015; Albufeira, Portugal

Search for new modulators of F508del-CFTR retention at the plasma membrane of epithelial cells; Ana Margarida Matos, Paulo Matos; Dia do Jovem Investigador do Instituto Ricardo Jorge 2017; Lisboa, 8 de maio de 2017

A NHERF1 PDZ domain switch averts CHIP Ub ligase-mediated peripheral membrane quality control of misfolded CFTR; Cláudia A. Loureiro, Ana Matos, Ângela Dias-Alves, Joana F. Pereira, Inna Uliyakina, Patrícia Barros, Margarida D. Amaral, Paulo Matos; European Cystic Fibrosis Society, 14th ECFS Basic Science Conference 29 March - 01 April 2017; Albufeira, Portugal  
Search for new modulators of rescued F508del-CFTR retention at the plasma membrane; Ana Margarida Matos, Patrícia Barros, Rainer Pepperkok, Paulo Matos; BioSys-BioISI 2nd Summer Retreat; 06-07 October 2017; Beja, Portugal

miR-34c-5p at the crossroads of human naive CD4 T-cell activation and HIV infection; Ana Margarida Matos, Russel B Foxall, Andreia j Amaral, Jorge Andrade, Paula Matoso, Mariana Santa-Marta, Rita Tendeiro, Ana Serra-Caetano, Rui S Soares, João Gonçalves, Margarida Gama-Carvalho, Ana E Sousa; XXXVIII Annual Meeting of the Portuguese Society of Immunology, From immune disorders to immunotherapies; 25-27 November 2012; Porto, Portugal

Regulation of SMN mRNA expression by LARP4 and hnRNPG RNA binding proteins - potential targets for Spinal Muscular Atrophy; Gomes AL, Oliveira M, Matos AM, Gama-Carvalho M; FEBS International Workshop, "New Developments in RNA Biology" 1-4 September 2012, Tavira, Portugal

Novel species of tRNA derived small-RNAs are specifically induced in T cells in response to HIV

infection; Andrade J, Amaral AJ, Matos AM, Santa-Marta M, Matoso P, Soares R, Foxall RB, Tendeiro R, Gonçalves J, Sousa AE, Gama-Carvalho M; FEBS International Workshop, "New Developments in RNA Biology"; 1-4 September 2012, Tavira, Portugal

Deep-sequencing profile of small ncRNAs in human CD4+ T cells upon TCR-mediated activation and its modulation by HIV infection; Amaral AJ, Andrade J, Matos AM, Matoso P, Soares R, Foxall RB, Tendeiro R, Gama-Carvalho M, Gonçalves J, Sousa AE; FEBS International Workshop, "New Developments in RNA Biology" 1-4 September 2012, Tavira, Portugal

A role for miR-34c-5p in T-cell activation and response to HIV infection; Matos AM, Andrade J, Amaral AJ, Santa-Marta M, Serra-Caetano A, Foxall RB, Matoso P, Soares R, Gonçalves J, Sousa AE, Gama-Carvalho M; FEBS International Workshop, "New Developments in RNA Biology" 1-4 September 2012, Tavira, Portugal

Design of cell-penetrating peptides to stabilize rescued F508del-CFTR at the surface of epithelial cells; Vanessa Neno, Ana Matos, Paulo Matos; 8th Meeting on Signal Transduction, SINAL 2017; Lisboa, Portugal

A proteomic approach to find new modulators of rescued F508del-CFTR retention at the plasma membrane; Ana Matos, Patrícia Barros, Paulo Matos; 8th Meeting on Signal Transduction, SINAL 2017; Lisboa, Portugal

Characterization of Ezrin-mediated stabilization of rescued F508del-CFTR at the surface of airway cells; Vanessa Neno, Ana Margarida Matos, Paulo Matos; Dia do Jovem Investigador do Instituto Ricardo Jorge 2017; Lisboa, 8 de maio de 2017

miR-34c-5p at the crossroads of human naive CD4 T-cell activation and HIV infection; Ana Margarida Matos, Russell B Foxall, Andreia J Amaral, Jorge Andrade, Paula Matoso, Mariana Santa-Marta, Rita Tendeiro, Ana Serra-Caetano, Rui S Soares, João Gonçalves, Margarida Gama-Carvalho, Ana E Sousa; Molecular Biology in Portugal and EMBL (and EMBL alumni meeting); Faculty of Sciences, University of Lisboa, Portugal 18th July 2013

Mutualistic parasites; João Alves Gama, Iolanda Domingues, Ana Maria Reis, Helena Mendes-Soares, Ana Margarida Matos, André Carvalho, Francisco Dionisio; Congress of the European Society for Evolutionary Biology, 19 to 24 August 2013; Lisbon, Portugal

Post-transcriptional regulation of SMN2 expression by hnRNP G and LARP Family proteins; Ana Miguel Fernandes, Ana Luísa Gomes, Mariana Oliveira, Gonçalo Costa, Isabel Peixeiro, Ana Margarida Matos, Carlos Cordeiro, Margarida Gama Carvalho; RNA 2013, Davos, Switzerland, 11-16 June, 2013