

Ana Rita Grosso
Research Assistant
DCV - Departamento de Ciências da Vida
UCIBIO - Applied Molecular Biosciences Unit
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Personal information

Ana Rita Grosso gathered a Biology degree (FCUL, 2002), followed by a MSc in Bioinformatics (FCUL-IGC, 2006). Her knowledge in multi-omics field was accomplished by gathering a PhD in Biomedical Sciences, under supervision of Simon Tavaré (Cambridge Univ., UK) and Maria Carmo-Fonseca (IMM/FMUL). Her PhD research unveiled the existence of splicing-factors expression signatures responsible by the tissue-specific regulation of alternative splicing. After obtaining the PhD in 2010, she did a first PostDoc with Maria Carmo-Fonseca (IMM/FMUL), followed by a second PostDoc with Sergio de Almeida (IMM/FMUL). Her PostDoc research disclosed new mechanisms of splicing and transcription dynamics. Since 2015, Ana Rita has started her own research line where she identified chromatin alterations that interfere with transcriptional fidelity in cancer. In parallel, she has also established collaborations with different research groups to decipher transcriptomic/epigenomic alterations underlying a wide range of diseases.

In 2018, Ana Rita Grosso moved to UCIBIO/FCT-NOVA to foster her scientific independence and consolidate her research group. Her main mission is to decipher pathological conditions using multi-omics approaches, identifying molecular events to be further used as biomarkers and therapeutic targets.

Additionally, she has been teaching specialized MSc courses in Genomics and Computational Biology fields, namely: “Computational Biology in Biomedicine” for the MSc in Bioinformatics and Computational Biology from (FCUL, 2012-2015); “Bioinformatics” for the MSc in Oncobiology (FMUL, 2014-2016); “Molecular Genomics and Evolution” and “Bioinformatics in Biomedicine” for the MSc in Molecular Genetics and Biomedicine (FCT-NOVA, 2018-onwards).

LINKS

ResearchID: <http://www.researcherid.com/rid/I-6656-2013>

ORCID: <https://orcid.org/0000-0001-6974-4209>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=26639262500>

CiênciaVitae: <https://www.cienciavitae.pt/3D18-571E-133A>

Qualifications

Ciências Biomedicas , Doctorate, Universidade de Lisboa
Award Date: 28 Feb 2010

Bioinformatica, Master, Universidade de Lisboa
Award Date: 5 Jun 2006

Biologia, Bachelor, Universidade de Lisboa
Award Date: 22 Sep 2002

Employment

NOVA.ID

Research Assistant
DCV - Departamento de Ciências da Vida
Universidade NOVA de Lisboa
Portugal
1 Jan 2018 → present

NOVA.ID

Research Assistant
UCIBIO - Applied Molecular Biosciences Unit
Universidade NOVA de Lisboa
1 Jan 2018 → present

Researcher

Instituto de Medicina Molecular João Lobo Antunes - iMM

Portugal

1 Jan 2015 → 31 Dec 2017

Post-Doctoral Investigator

Instituto de Medicina Molecular João Lobo Antunes - iMM

Portugal

1 Mar 2010 → 31 Dec 2014

Research outputs

Control of endothelial quiescence by FOXO-regulated metabolites

Andrade, J., Shi, C., Costa, A. S. H., Choi, J., Kim, J., Doddaballapur, A., Sugino, T., Ong, Y. T., Castro, M., Zimmermann, B., Kaulich, M., Guenther, S., Wilhelm, K., Kubota, Y., Braun, T., Koh, G. Y., Grosso, A. R., Frezza, C. & Potente, M., Apr 2021, In: *Nature Cell Biology*. 23, 4, p. 413-423 11 p.

A Transcriptomic Approach to the Recruitment of Venom Proteins in a Marine Annelid

Rodrigo, A. P., Grosso, A. R., Baptista, P. V., Fernandes, A. R. & Costa, P. M., 28 Jan 2021, In: *Toxins*. 13, 2, 97.

Comprehensive Detection of Pseudogenes Transcribed by Readthrough

Pinto, R., Sobral, D. & Grosso, A. R., 2021, *Pseudogenes*. Polisen, L. (ed.). New York: Humana Press Inc., p. 85-102 18 p. (Methods in Molecular Biology; vol. 2324).

New Insights into Immunological Involvement in Congenital Disorders of Glycosylation (CDG) from a People-Centric Approach

Francisco, R., Pascoal, C., Marques-da-Silva, D., Brasil, S., Pimentel-Santos, F. M., Altassan, R., Jaeken, J., Grosso, A. R., Dos Reis Ferreira, V. & Videira, P. A., 3 Jul 2020, In: *Journal of Clinical Medicine*. 9, 7, 2092.

Analysis of Mammalian Native Elongating Transcript sequencing (mNET-seq) high-throughput data

Prudêncio, P., Rebelo, K., Grosso, A. R., Martinho, R. G. & Carmo-Fonseca, M., 1 Jun 2020, In: *Methods*. 178

Mytilus galloprovincialis CYP1A-like mRNAs reveal closer proximity of mytilid CYP1A to the eumetazoan CYP2 family

Cunha, M., Martins, C., Grosso, A. R. & Costa, P. M., 1 Sep 2019, In: *Aquatic Toxicology*. 214, 105260.

Single-molecule imaging of transcription at damaged chromatin

Vítor, A. C., Sridhara, S. C., Sabino, J. C., Afonso, A. C., Grosso, A. R., Martin, R. M. & Almeida, S. F. D., 1 Jan 2019, In: *Science Advances*. 31, 4, eaau1249.

One nanoprobe, two pathogens: gold nanoprobe multiplexing for point-of-care

Veigas, B., Pedrosa, P., Carlos, F. F., Mancio-Silva, L., Grosso, A. R., Fortunato, E., Mota, M. M. & Baptista, P., 7 Aug 2015, In: *Journal of Nanobiotechnology*. 13, 1, 7 p., 48.

Chloroquine mediated modulation of Anopheles gambiae gene expression

Abrantes, P., Dimopoulos, G., Grosso, A. R., Rosário, V. E. D. & Silveira, H., 2 Jul 2008, In: *PLoS ONE*. Vol. 3, n.º 7, p. e2587-e2595 9 p., e2587.

Impacto da cloroquina nos mecanismos de defesa de Anopheles gambiae à infecção por Plasmodium berghei

Abrantes, P., Dimopoulos, G., Grosso, A. R., Do Rosário, V. E. & Silveira, H., Jan 2007, *Revista da Sociedade Brasileira de Medicina Tropical*. Supl.1 ed. Vol. 40. p. 159 1 p. (Revista Da Sociedade Brasileira De Medicina Tropical).

Impacto da cloroquina nos mecanismos de defesa de A. gambiae à infecção por P. berghei

Abrantes, P., Dimopoulos, G., Grosso, A. R., Do Rosário, V. E. & Silveira, H., 2007.

Activities

RNA (Journal)

Ana Rita Fialho Grosso (Peer reviewer)
2018 → ...

Bioinformatics (Journal)

Ana Rita Fialho Grosso (Peer reviewer)
2014 → ...

BMC Bioinformatics (Journal)

Ana Rita Fialho Grosso (Peer reviewer)
2014 → ...

BMC Cancer (Journal)

Ana Rita Fialho Grosso (Peer reviewer)
2014 → ...

BMC Genomics (Journal)

Ana Rita Fialho Grosso (Peer reviewer)
2014 → ...

Oncotarget (Journal)

Ana Rita Fialho Grosso (Peer reviewer)
2014 → ...

Prizes

FCT CEEC individual

Grosso, Ana Rita (Recipient), 2018

FCT Investigator

Grosso, Ana Rita (Recipient), 2014

FCT Post-Doctoral Fellowship

Grosso, Ana Rita (Recipient), 2010

Pfizer Award

Grosso, Ana Rita (Recipient), 2011

Pfizer Award

Grosso, Ana Rita (Recipient), 2017

PhD Fellowship

Grosso, Ana Rita (Recipient), 2006