

Jorge Henrique Ferreira Grilo

Birth date 9th May 1991

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CURRENT POSITION

PhD in Pharmacy – Pharmaceutical and Medicinal Chemistry

7 DEC 2015 – PRESENT

MedChemTrain – PhD Programme in Medicinal Chemistry

iMed.Ulisboa – Research Institute for Medicines and IMM – Instituto de Medicina Molecular

Exploring TOR/PI3K kinases as targets for the treatment of protozoan neglected tropical diseases under the supervision of Ana Sofia Ressurreição and Miguel Prudêncio.

ACADEMIC DEGREE

Master in Pharmaceutical Sciences

15 SEP 2009 – 22 DEC 2014

Faculdade de Farmácia da Universidade de Lisboa.

Thesis: *Synthesis of a Photo-Affinity Labelling Reagent to Probe Hsp90 C-terminal Structure-Activity Relationships* under the supervision of Dr. Min Yang and co-supervision of Prof. Rui Moreira.

Final grade: 17/20; (Grade A on the EECC)

PREVIOUS ACTIVITY

Training Researcher

1 JUN 2015 – 4 DEC 2015

iMed.Ulisboa – Research Institute for Medicines, FF.Ulisboa.

Synthesis of Cysteine-based Peptide Nucleic Acids via Thiol-Ene Click Chemistry.

Affiliated Erasmus Researcher

3 MAR 2014 – 30 MAY 2014

UCL School of Pharmacy, London – United Kingdom.

Synthesis of Novobiocin based Photoaffinity-Labeling Probes Targeting Hsp90 C-terminal.

Teaching Assistant

3 MAR 2013 – 31 MAY 2013

Faculdade de Farmácia da Universidade de Lisboa.

Haematology Laboratory Course (6th semester of the Integrated Master's Degree in Pharmaceutical Sciences). Sample preparation, techniques demonstration and execution supervision.

Undergraduate Researcher

1 OCT 2012 – 31 MAY 2013

iMed.Ul – Instituto de Investigação do Medicamento, FFUL.

Synthesis of Quinazoline Derivatives Targeting the Liver Stage of Malaria.

RESEARCH INTERESTS

Current research interests resolve around the elucidation of the concrete mechanisms of action for newly synthesized molecules, mainly towards neglected tropical diseases.

As an undergraduate student, I had the opportunity to work, at iMed.UL MedChem Group, developing new molecules as drug candidates targeting the liver stage of malaria, under Dr Ana Ressurreição. Furthermore, I explored on molecular derivatization of selected scaffolds to enable their usages as tools for click chemistry. For a brief time after this, I developed my research work at the UCL School of Pharmacy Department of Pharmaceutical and Biological Chemistry, under Dr Min Yang, where I experimented the development of photo-affinity based probes, based on the inclusion of photoreactive moieties in the novobiocin scaffold to target the Hsp90 C-terminal, to further assist in the structural characterization of its active site.

As graduate researcher, I now strive to combine my acquired skills in the development of suitable chemical tools to elucidate new targets and mechanisms of action toward protozoan tropical diseases, and to aid exploring the chemical space around these new targets so better drug leads can be developed.

PERSONAL SKILLS

Technical Skills

- Hands on experience with:
 - multi-step chemical synthesis, including the incorporation of metallic radionuclides;
 - manipulation of non-sealed radioactive sources;
 - chromatographic techniques: column and thin-layer (analytical and preparative), MPLC and HPLC;
 - spectroscopy techniques for structure elucidation of small molecules: 1D and 2D NMR, UV/Vis, FTIR and Mass Spectrometry;
 - MS-based metabolomic and proteomic assays;
 - Cell culture and manipulation for biological assays and microscopic observation.
- Member of the team responsible for the instrumentation and maintenance of the NMR apparatus (Bruker Fourier 300) at the Faculty of Pharmacy – Universidade de Lisboa.

Foreign Languages

English	Spanish	French	German	Japanese
Excellent	Intermediate		Elementary	

Professional Memberships

- Registered Pharmacist with the Portuguese Pharmaceutical Society (OF) – n. L-13137
 - *License 20930 – currently on voluntary suspension.*
- Member of the Portuguese Chemical Society (SPQ) – n. 5822

HONOURS AND AWARDS

PhD Fellowship

MedChemTrain – PhD Programme in Medicinal Chemistry.
 FCT Fundação para a Ciência e Tecnologia; Ministério da Ciência,
 Tecnologia e Ensino Superior

01 DEC 2016 – PRESENT

(PD/BD/12860/2016)

COMMUNICATIONS

Poster Presentations

4. Grilo J.; Fidalgo L.; Dias A.; Diaz R.; Navarro M.; Ressurreição A. S. Development of Novel Affinity-Based Probes Targeting African Trypanosomiasis. *1st Meeting of the Colégio de Química da Universidade de Lisboa*, Lisbon, July 20 – 21, **2017**; L&H.P27.

3. Godinho A. L.; Grilo J.; Silva D. M.; Pereira S. A.; Campos P.; Oliveira M. C.; Marques M. M.; Jacob C. C.; Antunes A. M. M. Bioactivation of the anti-HIV drug etravirine to reactive metabolites: *in vivo* and *in vitro* approaches. *XXV Encontro Nacional da Sociedade Portuguesa de Química*, Lisbon, July 16 – 19, **2017**; HC3.

2. Fidalgo L.; Grilo J.; Diaz R.; Navarro M.; Pacanowska D. G.; Moreira R.; Ressurreição A. S. Development of Torin-based compounds for treating protozoan Neglected Tropical Diseases. *XXV Encontro Nacional da Sociedade Portuguesa de Química*, Lisbon, July 16 – 19, **2017**; HC60.

1. Fidalgo L.; Grilo J.; Diaz R.; Navarro M.; Pacanowska D. G.; Moreira R.; Ressurreição A. S. Torin-Based Compounds: Exploring their Potential towards the Treatment of Protozoan Neglected Tropical Diseases. *9th iMed.Ulissboa Postgraduate Students Meeting*, Lisbon, July 13 – 14, **2017**; PC51.