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ACADEMIC QUALIFICATIONS :

- 1991 Degree in Biology from Faculdade de Ciências da Universidade de Lisboa (FC/UL)
- 1995 Master of Science in Biotechnology (Biochemical Engineering) from Instituto Superior Técnico da Universidade Técnica de Lisboa (IST/UTL)
- 2001 PhD in Biology (Microbial Genetics) from Faculdade de Ciências da Universidade de Lisboa
- 2012 Habilitation in Biomedical Sciences (Speciality Microbiology) - (Agregação em Ciências Biomédicas – Especialidade Microbiologia) from Instituto de Higiene e Medicina Tropical/ Universidade Nova de Lisboa.

APPOINTMENTS AND WORKING ACHIEVEMENTS:

Oct/1991 - Sep/1992 - Research training in Virology ; Supervision: Prof^a Wanda Canas-Ferreira; Laboratory: Departamento de Microbiologia do Instituto de Higiene e Medicina Tropical da Universidade Nova de Lisboa (IHMT/UNL); Subject: "Cell culture for HIV-2 isolation from Guinea-Bissau "
Lecturing Post-Graduation Course in Tropical Medical Microbiology.

Oct/1992 - Apr/1995 - Master of Science Course in Biotechnology (Biochemical Engineering) from IST/UTL and research activity in Molecular Genetics/Biotechnology with a Scholarship from Junta Nacional de Investigação Científica e Tecnológica (J.N.I.C.T./F.C.T.); Supervision: Prof^a Doutora Isabel Sá-Correia (IST/UTL) and Prof Dr. Hugo Ayres David (Institut Pasteur Paris); Laboratory: Microbiologia IHMT/UNL; Thesis: "Carotenogenesis in Mycobacterium vaccae - Genetic and biochemical characterization"

Apr/1995 – Mar/2001 - PhD Scholarship from J.N.I.C.T./F.C.T.; Supervision: Prof Dr. Hugo Ayres David (Institut Pasteur Paris and IHMT/UNL) and Prof. Dr. Filomena Exposto (IHMT/UNL); Laboratory: Microbiologia of IHMT/UNL.; Thesis: "Isolation of the carotenogenesis operon in Mycobacterium vaccae. - Application to the development of new mycobacterial genetic tools and to the understanding of molecular mechanism of tuberculosis pathogeny"

Jan/1998 – Mar/2001 - Lecturer (Assistente) in Medical Microbiology/Bacteriology in the Unit of Mycobacteriology of the IHMT/UNL. Lecturing activities in the Post-Graduation Course in Tropical Medical Microbiology and in the Faculty of Medical Sciences (Universidade Nova de Lisboa) – Microbiology and Parasitology -Third year of the Medical Degree Course. Research activities in Molecular Genetics of Mycobacteria, mycobacteria diagnosis and drug resistance.

Mar/2001 –Dec2009 - Assistant Professor (Professor Auxiliar) in Medical Microbiology/Bacteriology in the Unit of Mycobacteriology of the IHMT/UNL . Lecturing activities in the Masters Course (MSc) in Medical Microbiology from the IHMT/UNL; MSc Coordinator since 2003. Deputy Director of the Tuberculosis and Mycobacteria Clinical Laboratory. Research activities in Molecular Genetics of Mycobacteria and Bacteria, mycobacteria diagnosis, drug resistance and development of new drugs.

Dec2009 - April 2012 – Associate Professor (Professor Associado) in Medical Microbiology/Bacteriology in the Unit of Medical Microbiology (Group of Mycobacteriology) of the IHMT/UNL

April 2012 to July 2013 - Associate Professor with Habilitation in Biomedical Sciences (Speciality Microbiology) (Professor Associado com Agregação em Ciências Biomédicas – Especialidade Microbiologia) in the Unit of Medical Microbiology (Group of Mycobacteriology) of the IHMT/UNL. Thesis: “As novas tecnologias de biologia molecular no diagnóstico precoce da tuberculose resistente: a sua integração e monitorização no contexto dos programas de controlo da tuberculose - The new molecular biology technologies in the early diagnosis of drug-resistant tuberculosis: its integration and monitoring in the context of TB control programs”.

July 2013 to date - Full Professor in Medical Microbiology (Professor Catedrático em Microbiologia Médica) in the Unit of Medical Microbiology (Group of Mycobacteriology) of the IHMT/UNL.

January 2010 to date – President of the Pedagogical Council of the IHMT/UNL.

October 2014 – October 2017 – Special Visiting Professor at Faculdade de Medicina da Universidade do Rio de Janeiro (Brasil). Ref _ CAPES218488

Teaching Activity (coordination and/or teaching):

Mestrado (2º Ciclo) em Microbiologia Médica da Universidade Nova de Lisboa (UNL) – MSc in Medical Microbiology of UNL. Curricular Unit of Medical Bacteriology and Curricular Unit of Tuberculosis and other Mycobacteriosis;
Mestrado (2º Ciclo) em Ciências Biomédicas (IHMT/UNL) – MSc in Biomedical Sciences of IHMT/UNL. Curricular Unit of Medical Microbiology;
Mestrado (2º Ciclo) em Saúde Tropical (IHMT/UNL) – MSc in Tropical Health. Lectures on Laboratory Diagnosis of Tuberculosis and Curricular Unit of Tuberculosis and other Mycobacteriosis;
Mestrado (2º Ciclo) em Saúde e Desenvolvimento (IHMT/UNL) – MSc in Health and Development. Lectures on Design of TB-Control programs;
Doutoramento (3º Ciclo) em Ciências Biomédicas (IHMT/UNL). PhD in Biomedical Sciences - Curricular Unit of Medical Microbiology and Curricular Unit of Tuberculosis and other Mycobacteriosis;
Doutoramento (3º Ciclo) em Genética Humana e Doenças Infeciosas (IHMT/UNL) – PhD in Human Genetics and Infection. Curricular Unit of Medical Microbiology and Mycology.
Supervised and/or co-supervised several postgraduate degrees -6 pos-docs, 10 PhD, 24 MSc students.

Area of scientific activity: Scientific activity devoted to the early diagnosis of active or latent tuberculosis (TB) infections as well as the development of new therapeutical approaches to deal with MDRTB and with other drug resistant bacterial infections. Also interested in molecular biology of mycobacteria and immunology of TB. Executive Co-ordinator of the Masters in Medical Microbiology of the UNL. As Deputy-Director of the TB Laboratory of the IHMT (since 2001) has contributed to the resolution of the pulmonary TB problem of Lisbon by the generation of complete reports within a period of 15 to 20 days for 10 Hospitals of the TB Task Force of Lisbon. Over 150 studies published in peer review national and international journals in mycobacteriology, bacteriology, and resistance to antibiotics, microbial genetics, molecular epidemiology and immunology.

Domain of specializations: Medical Microbiology, bacteriology, mycobacteriology, laboratory diagnosis of mycobacterial infections, molecular biology and genetics of Mycobacterium sp. Tuberculosis. Molecular typing of multidrug-resistant *Mycobacterium tuberculosis*. Mechanisms and strategies to circumvent drug resistance in mycobacteria, composition of the

mycobacterial cell wall/envelope in relation to drug resistance, new antibiotics, antibiotic uptake, efflux-pumps, drug targeting and molecular vectorisation, nanotechnology, flow-cytometry.

Present research interests: Research in tuberculosis and antibiotic resistant infections in support for alternative therapies of incurable diseases such as multidrug resistant tuberculosis and methicillin-vancomycin resistant staphylococcal infections. Immunology of tuberculosis. Strong interests in assisting Portuguese speaking countries of Africa in combating tuberculosis. Expertise in the laboratory diagnosis of tuberculosis infections.

Research funding : Principal Investigator/Team Leader of 10 research projects (aprox. 2,5M€), and member the team of 17 other research projects. Funding Agencies: Fundação para a Ciência e a Tecnologia, Ministério da Educação e Ciência, Fundação Calouste Gulbenkian, Ministério da Saúde, Conselho de Reitores das Universidades Portuguesas (Portugal), European Union.

Refereeing and Academic Societies activities: Consultant for the Portuguese National Directorate of Health, CPLP board and Health Ministries, Foundation of Sciences and Technologies of Portugal and ECDC. Member of the evaluation panel of Individual Doctoral and Post-doctoral Grant proposals - area Biomedical Sciences and Basic Medicine - Fundação para a Ciência e a Tecnologia – Ministério da Educação e Ciência de Portugal. Expert Evaluator for the Medical Research Council of UK calls (area Tuberculosis). Member of the Review and Advisory Panel of the ‘Wellcome Trust Awards’, UK. Ad-hoc reviewer for the expert panel of the The Research Foundation – Flanders (FWO), Belgium, Haut Conseil de l'Évaluation de la Recherche et de l'Enseignement Supérieur (HCERES), France and National Agency for Scientific Evaluation (ANEP), Spain. Member of the evaluation panels for the QREN R&D investment proposals of the Ministério da Economia de Portugal. Regular ad-hoc reviewer of several international scientific journal (Lancet, Nature, JAC, AAC, PlosOne, IJAA, Tuberculosis, BMC Microbiology, etc) . 2010 - present..

<https://publons.com/author/772597/miguel-viveiros#profile>

Academic and Science Management activities:

2010 – present - President of the Pedagogical Council of the IHMT/UNL.

2005 – present - Elected member and Vice-President of the General Council of the IHMT/UNL.

2009 - present - Elected member of the Scientific Council of the IHMT/UNL.

2006 - 2014 – Member of the Directive Committee of the Portuguese Board of Biologists (Ordem dos Biólogos). Presently advisor of the Board and Representative of the Board at the Conselho Nacional de Saúde (National Council for Health).

2010 - present - Founding member and Treasurer (until 2017), currently management committee member of the Study Group for Mycobacterial Infections (ESGMYC) of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID).

<https://www.escmid.org/index.php?id=897>

Elected Vice-Chair of the Gordon Research Conference - Multi-Drug Efflux Systems - 2017

<https://www.grc.org/multi-drug-efflux-systems-conference/2017/>

Elected Chair of the Gordon Research Conference - Multi-Drug Efflux Systems - 2019

<https://www.grc.org/multi-drug-efflux-systems-conference/2019/>

BIBLIOMETRICS:

ISI - Web of Knowledge analysis: Total Articles in Publication List: 180; Articles With Citation Data: 153;
Sum of the Times Cited: 3532; Average Citations per Article: 23.08

h-index: 36

ResearcherID: A-7326-2008

URL: <http://www.researcherid.com/rid/A-7326-2008>

Scopus analysis:

Total Articles in Publication List: 163

Sum of the Times Cited: 4121

h-index: 39

Scopus Affiliation : 7003949212

URL : <http://www.scopus.com/authid/detail.url?authorId=7003949212>

Google Scholar webpage:

Total citations: 5991

h-index: 46

URL : <http://scholar.google.pt/citations?user=o39byr4AAAAJ&hl=en>

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URL <https://publons.com/author/772597/miguel-viveiros#profile>

Authenticus:

URL: <https://www.authenticus.pt/pt/profileOfResearchers/publicationsList/13666>

NOVAPure:

URL: [https://research.unl.pt/en/persons/miguel-viveiros\(87aa2c46-608a-4c45-b6db-759366ea3cd1\)/publications.html](https://research.unl.pt/en/persons/miguel-viveiros(87aa2c46-608a-4c45-b6db-759366ea3cd1)/publications.html)

PUBLICATIONS IN INTERNATIONAL PEER-REVIEW JOURNALS (N = 160):

1. Machado D, Antunes J, Simões A, Perdigão J, Couto I, McCusker M, Martins M, Portugal I, Pacheco T, Batista J, Toscano C, **Viveiros M**. Contribution of efflux to colistin heteroresistance in a multidrug resistant *Acinetobacter baumannii* clinical isolate. *J Med Microbiol*. 2018 May 2. doi: 10.1099/jmm.0.000741.
<http://jmm.microbiologyresearch.org/content/journal/jmm/10.1099/jmm.0.000741#tab2>
2. Deveson Lucas D, Crane B, Wright A, Han ML, Moffatt J, Bulach D, Gladman SL, Powell D, Aranda J, Seemann T, Machado D, Pacheco T, Marques T, **Viveiros M**, Nation R, Li J, Harper M, Boyce JD. Emergence of high-level colistin resistance in an *Acinetobacter baumannii* clinical isolate mediated by inactivation of the global regulator H-NS. *Antimicrob Agents Chemother*. 2018 Apr 30. pii: AAC.02442-17. doi: 10.1128/AAC.02442-17.
<http://aac.asm.org/content/early/2018/04/17/AAC.02442-17.full.pdf>
3. Perdigão J, Silva C, Diniz J, Pereira C, Machado D, Ramos J, Silva H, Abilleira F, Brum C, Reis AJ, Macedo M, Scaini JL, Silva AB, Esteves L, Macedo R, Maltez F, Clemente S, Coelho E, Viegas S, Rabna P, Rodrigues A, Taveira N, Jordao L, Kritski A, E Silva JL, Mokrousov I, Couvin D, Rastogi N, Couto I, Pain A, McNerney R, Clark TG, von Groll A, Dalla-Costa ER, Rossetti ML, da Silva PEA, Viveiros M, Portugal I. Clonal expansion across the seas as seen through CPLP-TB database: A joint effort in cataloguing *Mycobacterium tuberculosis* genetic diversity in Portuguese-speaking countries. *Infect Genet Evol*. 2018 Mar 17. pii: S1567-1348(18)30102-3. doi: 10.1016/j.meegid.2018.03.011. [Epub ahead of print]
<https://www.sciencedirect.com/science/article/pii/S1567134818301023?via%3Dihub>
4. Machado D, Perdigão J, Portugal I, Pieroni M, Silva PA, Couto I, **Viveiros M**. Efflux Activity Differentially Modulates the Levels of Isoniazid and Rifampicin Resistance among Multidrug Resistant and Mono-resistant *Mycobacterium tuberculosis* Strains. *Antibiotics (Basel)*. 2018 Mar 3;7(1). pii: E18. doi: 10.3390/antibiotics7010018.
<http://www.mdpi.com/2079-6382/7/1/18>
5. Francisco M, Costa SS, Belas A, Ramos J, Couto I, Pomba C, **Viveiros M**. First report on antimicrobial resistance and molecular characterization of *Salmonella enterica* serotype Typhi isolated from human specimens in Luanda, Angola. *J Glob Antimicrob Resist*. 2018 Feb 9. pii: S2213-7165(18)30028-6. doi: 10.1016/j.jgar.2018.02.001.
<https://www.sciencedirect.com/science/article/pii/S2213716518300286?via%3Dihub>
6. Costa SS, **Viveiros M**, Pomba C, Couto I. Active antimicrobial efflux in *Staphylococcus epidermidis*: building up of resistance to fluoroquinolones and biocides in a major opportunistic pathogen. *J Antimicrob Chemother*. 2018 Feb 1;73(2):320-324. doi: 10.1093/jac/dkx400.
<https://academic.oup.com/jac/advance-article-abstract/doi/10.1093/jac/dkx400/4604698?redirectedFrom=fulltext>
7. Coll F, Phelan J, Hill-Cawthorne GA, Nair MB, Mallard K, Ali S, Abdallah AM, Alghamdi S, Alsomali M, Ahmed AO, Portelli S, Oppong Y, Alves A, Bessa TB, Campino S, Caws M, Chatterjee A, Crampin AC, Dheda K, Furnham N, Glynn JR, Grandjean L, Minh Ha D, Hasan R, Hasan Z, Hibberd ML, Joloba M, Jones-López EC, Matsumoto T, Miranda A, Moore DJ, Mocillo N, Panaiotov S, Parkhill J, Penha C, Perdigão J, Portugal I, Rchiad Z, Robledo J, Sheen P, Shesha NT, Sirgel FA, Sola C, Oliveira Sousa E, Streicher EM, Helden PV, **Viveiros M**, Warren RM, McNerney R, Pain A, Clark TG. Genome-wide analysis of multi- and extensively drug-resistant *Mycobacterium tuberculosis*. *Nat Genet*. 2018 Feb;50(2):307-316. doi: 10.1038/s41588-017-0029-0. Epub 2018 Jan 22.
<https://www.nature.com/articles/s41588-017-0029-0>
8. Simões AS, Alves DA, Gregório J, Couto I, Dias S, Póvoa P, **Viveiros M**, Gonçalves L, Lapão LV. Fighting antibiotic resistance in Portuguese Hospitals: understanding antibiotic prescription behaviors to better design antibiotic stewardship programs. *J Glob Antimicrob Resist*. 2018 Jan 30. pii: S2213-7165(18)30015-8. doi: 10.1016/j.jgar.2018.01.013.
<https://www.sciencedirect.com/science/article/pii/S2213716518300158?via%3Dihub>

9. Phelan J, de Sessions PF, Tientcheu L, Perdigao J, Machado D, Hasan R, Hasan Z, Bergval IL, Anthony R, McNerney R, Antonio M, Portugal I, **Viveiros M**, Campino S, Hibberd ML, Clark TG. Methylation in *Mycobacterium tuberculosis* is lineage specific with associated mutations present globally. *Sci Rep*. 2018 Jan 9;8(1):160. doi: 10.1038/s41598-017-18188-y. <https://www.nature.com/articles/s41598-017-18188-y>
10. Vila-Viçosa D, Victor BL, Ramos J, Machado D, **Viveiros M**, Switala J, Loewen PC, Leitão R, Martins F, Machuqueiro M. Insights on the Mechanism of Action of INH-C10 as an Antitubercular Prodrug. *Mol Pharm*. 2017 Dec 4;14(12):4597-4605. doi: 10.1021/acs.molpharmaceut.7b00719. <http://pubs.acs.org/doi/10.1021/acs.molpharmaceut.7b00719>
11. Ramis IB, Figueiredo R, Ramos DF, Halicki PCB, von Groll A, **Viveiros M**, Costa MDC, da Silva PEA. Activity of rifabutin and hemi-synthetic derivatives against *Mycobacterium abscessus*. *Med Chem*. 2017 Dec 3. doi: 10.2174/1573406414666171204102633. <http://www.eurekaselect.com/158037>
12. Nakatani Y, Opel-Reading HK, Merker M, Machado D, Andres S, Kumar SS, Moradigaravand D, Coll F, Perdigão J, Portugal I, Schön T, Nair D, Devi KRU, Kohl TA, Beckert P, Clark TG, Maphalala G, Khumalo D, Diel R, Klaos K, Aung HL, Cook GM, Parkhill J, Peacock SJ, Swaminathan S, **Viveiros M**, Niemann S, Krause KL, Köser CU. Role of alanine racemase mutations in *Mycobacterium tuberculosis* D-cycloserine resistance. *Antimicrob Agents Chemother*. 2017 Oct 2. pii: AAC.01575-17. doi: 10.1128/AAC.01575-17. <http://aac.asm.org/content/early/2017/09/26/AAC.01575-17.long>
13. Cannalire R, Machado D, Felicetti T, Santos Costa S, Massari S, Manfroni G, Barreca ML, Tabarrini O, Couto I, **Viveiros M**, Sabatini S, Cecchetti V. Natural isoflavone biochanin A as a template for the design of new and potent 3-phenylquinolone efflux inhibitors against *Mycobacterium avium*. *Eur J Med Chem*. 2017 Sep 12;140:321-330. doi: 10.1016/j.ejmech.2017.09.014. <http://www.sciencedirect.com/science/article/pii/S0223523417306967?via%3Dihub>
14. Tavares AM, Fronteira I, Couto I, Machado D, **Viveiros M**, Abecasis AB, Dias S. HIV and tuberculosis co-infection among migrants in Europe: A systematic review on the prevalence, incidence and mortality. *PLoS One*. 2017 Sep 28;12(9):e0185526. doi: 10.1371/journal.pone.0185526. eCollection 2017. <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0185526>
15. Azzali E, Machado D, Kaushik A, Vacondio F, Flisi S, Cabassi CS, Lamichhane G, **Viveiros M**, Costantino G, Pieroni M. Substituted N-Phenyl-5-(2-(phenylamino)thiazol-4-yl)isoxazole-3-carboxamides Are Valuable Antitubercular Candidates that Evade Innate Efflux Machinery. *J Med Chem*. 2017 Aug 24;60(16):7108-7122. doi: 10.1021/acs.jmedchem.7b00793. <http://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.7b00793>
16. Santos PFGD, Costa ERD, Ramalho DM, Rossetti ML, Barcellos RB, Nunes LS, Esteves LS, Rodenbusch R, Anthony RM, Bergval I, Sengstake S, **Viveiros M**, Kritski A, Oliveira MM. Detection of tuberculosis drug resistance: a comparison by *Mycobacterium tuberculosis* MLPA assay versus Genotype@MTBDRplus. *Mem Inst Oswaldo Cruz*. 2017 Jun;112(6):396-403. doi: 10.1590/0074-02760160376. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5446228/pdf/0074-0276-mioc-112-6-0396.pdf>
17. Machado D, Coelho TS, Perdigão J, Pereira C, Couto I, Portugal I, Maschmann RA, Ramos DF, von Groll A, Rossetti MLR, Silva PA, **Viveiros M**. Interplay between Mutations and Efflux in Drug Resistant Clinical Isolates of *Mycobacterium tuberculosis*. *Front Microbiol*. 2017 Apr 27;8:711. doi: 10.3389/fmicb.2017.00711. <http://journal.frontiersin.org/article/10.3389/fmicb.2017.00711/full>

18. Machado D, Fernandes L, Costa SS, Cannalire R, Manfroni G, Tabarrini O, Couto I, Sabatini S, **Viveiros M**. Mode of action of the 2-phenylquinoline efflux inhibitor PQQ4R against *Escherichia coli*. *PeerJ*. 2017 Apr 26;5:e3168. doi: 10.7717/peerj.3168
<https://peerj.com/articles/3168/>
19. Guerreiro CS, Hartz Z, Sambo L, Conceição C, Dussault G, Russo G, **Viveiros M**, Silveira H, Pita Barros P, Ferrinho P. [Scientific Research Policy for Health in Portugal: II - Facts and Suggestions]. *Acta Med Port*. 2017 Mar 31;30(3):233-242. doi: 10.20344/amp.8012.
<http://www.actamedicaportuguesa.com/revista/index.php/amp/article/view/8012>
20. Schön T, Miotto P, Köser CU, **Viveiros M**, Böttger E, Cambau E. *Mycobacterium tuberculosis* drug-resistance testing: challenges, recent developments and perspectives. *Clin Microbiol Infect*. 2017 Mar;23(3):154-160. doi: 10.1016/j.cmi.2016.10.022.
[http://www.clinicalmicrobiologyandinfection.com/article/S1198-743X\(16\)30511-0/pdf](http://www.clinicalmicrobiologyandinfection.com/article/S1198-743X(16)30511-0/pdf)
21. Silva L Jr, Carrion LL, von Groll A, Costa SS, Junqueira E, Ramos DF, Cantos J, Seus VR, Couto I, Fernandes LD, Bonacorso HG, Martins MA, Zanatta N, **Viveiros M**, Machado KS, Almeida da Silva PE. In vitro and in silico analysis of the efficiency of tetrahydropyridines as drug efflux inhibitors in *Escherichia coli*. *Int J Antimicrob Agents*. 2017 Mar;49(3):308-314. doi:10.1016/j.ijantimicag.2016.11.024.
[http://www.ijaaonline.com/article/S0924-8579\(17\)30026-2/pdf](http://www.ijaaonline.com/article/S0924-8579(17)30026-2/pdf)
22. Guerreiro CS, Hartz Z, Sambo L, Conceição C, Dussault G, Russo G, Viveiros M, Silveira H, Pita Barros P, Ferrinho P. [Scientific Research Policy for Health in Portugal: I - European and National Environment]. *Acta Med Port*. 2017 Feb 27;30(2):141-147. doi: 10.20344/amp.8011.
<http://www.actamedicaportuguesa.com/revista/index.php/amp/article/view/8011>
23. Perdigão J, Clemente S, Ramos J, Masakidi P, Machado D, Silva C, Couto I, **Viveiros M**, Taveira N, Portugal I. Genetic diversity, transmission dynamics and drug resistance of *Mycobacterium tuberculosis* in Angola. *Sci Rep*. 2017 Feb 23;7:42814. doi: 10.1038/srep42814.
<http://www.nature.com/articles/srep42814>
24. Amaral L, **Viveiros M**. Thioridazine: A Non-Antibiotic Drug Highly Effective, in Combination with First Line Anti-Tuberculosis Drugs, against Any Form of Antibiotic Resistance of *Mycobacterium tuberculosis* Due to Its Multi-Mechanisms of Action. *Antibiotics (Basel)*. 2017 Jan 14;6(1). pii: E3. doi: 10.3390/antibiotics6010003.
<http://www.mdpi.com/2079-6382/6/1/3>
25. Soares A, Estevão MS, Marques MM, Kovalishyn V, Latino DA, Aires-de-Sousa J, Ramos J, **Viveiros M**, Martins F. Synthesis and Biological Evaluation of Hybrid 1,5- and 2,5-Disubstituted Indoles as Potentially New Antitubercular Agents. *Med Chem*. 2017;13(5):439-447. doi: 10.2174/1573406413666170209144003.
<http://www.eurekaselect.com/node/149956/article/synthesis-and-biological-evaluation-of-hybrid-15-and-25-disubstituted-indoles-as-potentially-new-antitubercular-agents>
26. Phelan J, O'Sullivan DM, Machado D, Ramos J, Whale AS, O'Grady J, Dheda K, Campino S, McNerney R, **Viveiros M**, Huggett JF, Clark TG. The variability and reproducibility of whole genome sequencing technology for detecting resistance to anti-tuberculous drugs. *Genome Med*. 2016 Dec 22;8(1):132. doi: 10.1186/s13073-016-0385-x.
<https://genomemedicine.biomedcentral.com/articles/10.1186/s13073-016-0385-x>
27. Perdigão J, Clemente S, Ramos J, Masakidi P, Machado D, Silva C, Couto I, **Viveiros M**, Taveira N, Portugal I. Genetic diversity, transmission dynamics, and drug resistance of *Mycobacterium tuberculosis* in Luanda, Angola. *Int J Mycobacteriol*. 2016 Dec;5 Suppl 1:S38-S39. doi: 10.1016/j.ijmyco.2016.09.050.
<http://www.sciencedirect.com/science/article/pii/S2212553116301881?via%3Dihub>

28. Costa SS, Palma C, Kadlec K, Fessler AT, **Viveiros M**, Melo-Cristino J, Schwarz S, Couto I. Plasmid-Borne Antimicrobial Resistance of *Staphylococcus aureus* Isolated in a Hospital in Lisbon, Portugal. *Microb Drug Resist*. 2016 Dec;22(8):617-626.
<http://online.liebertpub.com/doi/pdf/10.1089/mdr.2015.0352>
29. Costa SS, Lopes E, Azzali E, Machado D, Coelho T, da Silva PE, **Viveiros M**, Pieroni M, Couto I. An Experimental Model for the Rapid Screening of Compounds with Potential Use Against Mycobacteria. *Assay Drug Dev Technol*. 2016 Nov;14(9):524-534.
<http://online.liebertpub.com/doi/pdf/10.1089/adt.2016.752>
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[http://www.ijaaonline.com/article/S0924-8579\(16\)30269-2/pdf](http://www.ijaaonline.com/article/S0924-8579(16)30269-2/pdf)
31. Simões AS, Couto I, Toscano C, Gonçalves E, Póvoa P, **Viveiros M**, Lapão LV. Prevention and Control of Antimicrobial Resistant Healthcare-Associated Infections: The Microbiology Laboratory Rocks! *Front Microbiol*. 2016 Jun 7;7:855. doi: 10.3389/fmicb.2016.00855.
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159. **Portugal I**, Covas MJ, Brum L, Viveiros M, Ferrinho P, Moniz-Pereira J, David HL. Outbreak of multiple drug-resistant tuberculosis in Lisbon: detection by restriction fragment length polymorphism analysis. *Int J Tuberc Lung Dis*. 1999 Mar;3(3):207-13.
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BOOKS AND BOOK CHAPTERS (N = 21):

1. Ordway D.J., **Viveiros M.**, Ventura F.A., Dockrell H.M. and Amaral L. (2005) Does multiple exposure to Mycobacterium tuberculosis lead to reduction of a Th1 immune response and concomitant presence of Th2 immune response which contributes to subsequent development of active tuberculosis?. In: Research Advances in Infectious Diseases, Mohan R.M. editor, Global Research Network, Kerala, India, p.15-34.
2. **Viveiros M.**, Leandro C., Rodrigues L., Almeida J., Bettencourt R., Couto I., Carrilho L., Diogo J., Fonseca A., Lito L., Lopes J., Pacheco T., Pessanha M., Quirim J., Sancho L. and Salfinger M. (2006). Diagnóstico precoce da tuberculose multirresistente (TBMR): O Programa Faster-Track de Combate à Tuberculose Multirresistente na Grande Lisboa. In: Tuberculose - Impacto da Infecção VIH. Jaime Pina editor, Sociedade Portuguesa de Pneumologia - Hospital Pulido Valente – GlaxoSmithKline, Lisboa, Portugal, p.83-99.
3. **Viveiros M.** and Atouguia J. (2008) Tuberculose – Saúde Tropical. Edição Universidade Aberta (ISBN:978-972-674-494-8) 155 pp.
<http://loja.uab.pt/scripto/textos-de-cursos-nao-formais/produto/tuberculose-1368.aspx>
4. **Viveiros M.** (2010) Segurança no Laboratório de Microbiologia In: Microbiologia (1ª Edição), Wanda F. Canas Ferreira, João Carlos F. de Sousa and Nelson Lima editores, Lidel, Edições Técnicas, Lisboa, Portugal. pp. - 588-609 (ISBN 9789727575152)
http://www.fca.pt/cgi-bin/lidel_main.cgi/?op=3&mnu=100&edicao=1&isbn=978-972-757-515-2
5. **Viveiros M.**, Rodrigues L., Martins M., Couto I., Martins A., Spengler G. and Amaral L. (2009) Evaluation of efflux activity of bacteria by an ethidium bromide semi-automated fluorometric system. In: Antibiotic Resistance Protocols for Methods in Molecular Medicine Series, Second Edition. John Walker editor. Humana Press, Springer Science+Business Media, LLC. Londres, Reino Unido. pp. 159-172. (ISBN 978-1-60327-278-0).
http://www.springerprotocols.com/Abstract/doi/10.1007/978-1-60327-279-7_12
6. Martins M., Couto I., **Viveiros M.** and Amaral L (2009) Identification of efflux- mediated multi-drug resistance in bacterial clinical isolates by two simple methods. In: Antibiotic Resistance Protocols for Methods in Molecular Medicine Series, Second Edition. John Walker editor. Humana Press, Springer Science+Business Media, LLC. Londres, Reino Unido. pp. 143-157 (ISBN 978-1-60327-278-0).
http://www.springerprotocols.com/Abstract/doi/10.1007/978-1-60327-279-7_12
7. Amaral L., Fanning S., Spengler G., Rodrigues L., Iversen C., Martins M., Martins A., **Viveiros M.** and Couto I. (2009) Genetic regulation, physiology, assessment and inhibition of efflux pumps responsible for multi-drug resistant phenotypes of bacterial pathogens (I) In: Antibiotic Resistance . 1st Edition_eBook. Agoston Meszaros and Gusztav Balogh editors. NovaScience, Nova York, EUA. (ISBN 978-1-61668-162-3).
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8. Amaral L., Fanning S., Spengler G., Rodrigues L., Iversen C., Martins M., Martins A., **Viveiros M.** and Couto I. (2011) Genetic regulation, physiology, assessment and inhibition of efflux pumps responsible for multi-drug resistant phenotypes of bacterial pathogens (II) In: Antibiotic Resistance: Causes and Risk Factors, Mechanisms and Alternatives. 2nd Edition_Hardcover. Adriel R. Bonilla and Kaden P. Muniz editors. NovaScience, Nova York, EUA. pp. 313-332. (ISBN 978-1-60741-623-4).
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https://www.novapublishers.com/catalog/product_info.php?products_id=10044
10. Amaral L., Fanning S., Spengler G., Rodrigues L., Iversen C., Martins M., Martins A., **Viveiros M.** and Couto I. (2012) Genetic regulation, physiology, assessment and inhibition of efflux pumps responsible for multi-drug resistant phenotypes of bacterial pathogens (IV) In: Bacterial Pathogens: Virulence Mechanisms, Diagnosis and Management. Aimee Boulanger and Maison Blanc editors. NovaScience, Nova York, EUA. pp. 66-85. (ISBN 978-1-62081-887-9).
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11. **Viveiros M.** (2012) A Importância da Biossegurança Como Disciplina Curricular. In Workshop Biossegurança: Situação em Portugal. Sofia Nuncio, Ana Pelerito, Rita Cordeiro editors. Ministério da Saúde. Instituto Nacional de Saúde Doutor Ricardo Jorge, IP, Lisboa, Portugal. pp. 13-17. (ISBN: 978-972-8643-75-1).
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12. Amaral L., Martins A., Spengler G., Martins M., McCusker M., **Viveiros M.**, Fanning S. and Molnar J. (2013) Structure, Genetic Regulation, Physiology and Function of the AcrAB-ToIC Efflux Pump of *Escherichia coli* and *Salmonella*. In: Antimicrobial Drug Discovery-Emerging Strategies. George Tegos and E Mylonakis, editors. CABI Publishing, Oxfordshire, UK, pp. 44-61. (ISBN 781-84593-943-4).
<http://bookshop.cabi.org/default.aspx?site=191&page=2633&pid=2443>
13. **Viveiros M.** Machado D., Couto I. and Amaral L (2013) Improving on the LJ slope – automated liquid culture. In: Tuberculosis - Diagnosis and Treatment (Advances in Molecular and Cellular Microbiology Series) T D McHugh, editor. CABI Publishing, Oxfordshire, UK, 304 pag. (ISBN 781-84593-807-9).
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14. Amaral L, Martins M, Couto I, **Viveiros M** (2013) Therapy of the XDR-TB Patients with Thioridazine - an Old Drug with New Applications. In: Tuberculosis - Diagnosis and Treatment (Advances in Molecular and Cellular Microbiology Series) T D McHugh, editor. CABI Publishing, Oxfordshire, UK, 304 pag. (ISBN 781-84593-807-9).
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15. **Viveiros M.** Couto I and Inácio J. (2014) Diagnóstico Molecular. In: Microbiologia Médica, António Meliço-Silvestre, Helena Barroso and Nuno Taveira editores, Lidel, Edições Técnicas, Lisboa, Portugal. (ISBN - 978-972-757-576-3).
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16. Portugal, I. and **Viveiros M.** (2014) *Mycobacterium* In: Microbiologia Médica, António Meliço-Silvestre, Helena Barroso and Nuno Taveira editores, Lidel, Edições Técnicas, Lisboa, Portugal. (ISBN - 978-972-757-576-3).
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17. **Viveiros M.**, Couto I., Rossetti ML and da Silva PA (2014) Otimização, validação e controlo de qualidade de testes moleculares de diagnóstico. In: Abordagens Moleculares em Veterinária. Mónica V. Cunha e João Inácio editores, Lidel, Edições Técnicas, Lisboa, Portugal. (ISBN - 978-989-752-034-1).
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18. Costa P., Couto I., **Viveiros M.**, and Inácio J. (2014) Nested and Multiplex Real Time PCR Using Dual-Labeled Probes: Detecting And Discriminating Mycobacterium Tuberculosis Complex Members In Cultures And Animal Tissues. In: Veterinary Infection Biology: Molecular Diagnostics and High-Throughput Strategies (Methods in Molecular Biology Series). Monica Cunha and João Inácio Editors. Humana Press, Springer Science+Business Media, LLC. Londres, Reino Unido. Vol. 1247. (ISBN 978-1-4939-2003-7).
<http://www.springer.com/medicine/internal/book/978-1-4939-2003-7>
19. Rodrigues L., **Viveiros M.**, and Aínsa J. (2015) Measuring Efflux and Permeability in Mycobacteria. In: Mycobacteria Protocols (Methods in Molecular Biology Series), Tanya Parish and David Roberts, Editors. Humana Press, Springer Science+Business Media, LLC. Londres, Reino Unido. 3rd edition., XII, 412 p.Vol. 1285. (ISBN 978-1-4939-2449-3).
<http://www.springer.com/life+sciences/microbiology/book/978-1-4939-2449-3>
20. Armada A, Martins C, Spengler G, Molnar J, Amaral L, Rodrigues AS, **Viveiros M.** (2016) Fluorimetric Methods for Analysis of Permeability, Drug Transport Kinetics, and Inhibition of the ABCB1 Membrane Transporter. In: Cancer Drug Resistance: Overviews and Methods (Methods in Molecular Biology Series). José Rueff and Sebastião Rodrigues Editors. Humana Press, Springer Science+Business Media, LLC. Londres, Reino Unido. Vol. 1247. (ISBN 978-1-4939-3347-1 and 978-1-4939-3345-7).
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21. da Silva PEA, Machado, Ramos D, Couto I, Von Groll A, Viveiros M. (2016) Efflux Pumps in Mycobacteria: Antimicrobial Resistance, Physiological Functions, and Role in Pathogenicity. In: Efflux-Mediated Antimicrobial Resistance in Bacteria: Mechanisms, Regulation and Clinical Implications. Xian-Zhi Li, Christopher A. Elkins, Helen I. Zgurskaya Editors Springer International Publishing Switzerland pg. 527-559 (ISBN 978-3-319-39656-9 and 978-3-319-39658-3)
http://link.springer.com/chapter/10.1007/978-3-319-39658-3_21

PARTICIPATION AND COORDINATION OF RESEARCH PROJECTS:

As Coordinator (n=10):

1. 2004 - 2006 - Principal Investigator/Coordinator of the project - Fundação Calouste Gulbenkian - " Diagnóstico Rápido da Tuberculose Multiresistente na Grande Lisboa".
2. 2005 - 2007 - Principal Investigator/Coordinator - Fundação para a Ciência e Tecnologia - 1ST PHASE - (POCTI/SAU- MMO/59370/2004) "Bombas de Efluxo em *M. tuberculosis*: caracterização molecular dos mecanismos de efluxo e uso de inibidores de efluxo como novos compostos anti-bacilares - Efflux-pumps in *M. tuberculosis*: molecular characterization of the efflux mechanism and use of efflux inhibitors as new anti-TB drugs".
3. 2007 - 2009 - Principal Investigator/Coordinator - Fundação para a Ciência e Tecnologia - 2ND PHASE - (PPCDT/SAU- MMO/59370/2004) "Bombas de efluxo em *Mycobacterium tuberculosis*: caracterização molecular dos mecanismos de efluxo e uso de inibidores de efluxo como novos compostos anti-bacilares - Efflux-pumps in drug resistance of *Mycobacterium tuberculosis*: Molecular characterisation of the efflux mechanism and use of efflux inhibitors as new anti-tubercular compounds".
4. 2008-2012 - Principal Investigator/Coordinator - Fundação Calouste Gulbenkian - Projecto de apoio ao Plano Estratégico de Controlo da Tuberculose de Moçambique - Support for the Strategic Plan to Fight TB in Mozambique. Fundação Calouste Gulbenkian, Instituto de Higiene e Medicina Tropical, Instituto Nacional de Saúde Dr. Ricardo Jorge.
5. 2008 - 2011 - Principal Investigator/Coordinator - Fundação para a Ciência e Tecnologia - (PTDC/BIAMIC/ 71280/2006) - Dinâmica fisiológica e mutacional da resistência aos antibióticos em *Mycobacterium tuberculosis*: a emergência da Tuberculose Multi-Resistente. - Mutational and physiological dynamics of drug resistance in *Mycobacterium tuberculosis*: the emergence of Multi-Drug Resistant Tuberculosis.
6. 2009 - 2013 - Principal Investigator/Coordinator - Fundação para a Ciência e Tecnologia - (PTDC/SAUFCF/ 102807/2008) "Enhancing the killing of intracellular multi-drug resistant tuberculosis (MDRTB) by human macrophages: a new chemotherapeutic strategy to fight MDRTB".
7. 2009 - 2013 - Principal Investigator/Coordinator - Fundação para a Ciência e Tecnologia - (PTDC/BIAMIC/ 105509/2008) "Helper compounds against multidrug resistant bacteria: revealing their mechanism of action".
8. 2012 - 2015 - Principal Investigator/Coordinator (Component IHMT/UNL) - "Formação em Diagnóstico Laboratorial de Tuberculose - ForDILAB TB". Projecto conjunto Fundação Calouste Gulbenkian, Instituto de Higiene e Medicina Tropical e Instituto Nacional de Saúde Dr. Ricardo Jorge - Fundação Calouste Gulbenkian (instituição proponente – Dr^a Maria Herminia Cabral - Parceiros: Instituto de Higiene e Medicina Tropical (Prof. Doutor Paulo Ferrinho, Prof. Doutor Isabel Leitão Couto e Prof. Doutor João Piedade) e Instituto Nacional de Saúde Dr. Ricardo Jorge (Professor Doutor José Calheiros e Dr^o Maria João Simões). Submetido ao Secretariado Executivo da Comunidade dos Países de Língua Portuguesa, no âmbito do Plano Estratégico de Cooperação em Saúde da CPLP.
Nota: Projecto com o apoio e patrocínio do Representante Especial para Tuberculose do Secretário Geral das Nações Unidas, Sua Ex^a o Presidente da República Portuguesa, Dr. Jorge Sampaio.
9. 2014 - 2017 - Principal Investigator/Coordinator in Portugal (Component IHMT/UNL) - Jose R. Lapa e Silva/UFRJ Coordinator/PI Brazil - Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES) – Projecto "Ciências em Fronteiras/Professor Visitante Especial" - Chamada de Projetos Programa Pesquisador Visitante Especial (PVE) - 1º Cronograma de 2014 (Proc.nº 88881.064961/2014-01) - " Inovação em nível laboratorial no controle de Tuberculose nos Estados do Rio de Janeiro e Amazonas".

10. 2018-2020 - Principal Investigator/Coordinator – GILEAD - Programa Gilead GÉNESE, referência PGG/012/2017 - Aplicação de nanopartículas superparamagnéticas no diagnóstico rápido, simultâneo e não invasivo da infecção pelo VIH e da tuberculose. Co-PI: Doutora Diana Machado

As Member of the Research Team (n=17):

1. 1992 - 1994 - Junior Researcher in the project - C.E.E./D.G.XII - "AIDS Clinical and Seroimmunological reevaluation of HIV-2 positive people of Guiné-Bissau"; (Contract N° TS2 - 001- P(TT) - EEC)- Coordinator - Prof. Wanda Canas-Ferreira.
2. 1994 - 1997 - Researcher in the project - Fundação Calouste Gulbenkian - (Desp-FCG-05/01/1994) - "Estudo cooperativo internacional sobre a imunidade protectora em tuberculose: investigações clinico-epidemiológicas e laboratoriais relacionadas com perspectivas de novos métodos de diagnóstico e pesquisa de nova geração de vacinas" - Coordinator - Prof. Hugo Ayres Lopes David.
3. 1995 - 1998 - Researcher in the project - Comissão Nacional de Luta Contra a SIDA - National Committee Against AIDS -(Projecto N° 9-1.10.6./94) -"Estudo da relação tuberculose-SIDA e dos problemas de transmissão da tuberculose nas populações de alto risco, com a introdução, desenvolvimento e aplicação prática de novos métodos de diagnóstico rápido da tuberculose". Coordinator - Prof. Hugo Ayres Lopes David.
4. 2002 - 2005 - Researcher in the project - Fundação Calouste Gulbenkian - (SDH.IC.I.01.17) - " Grupo de Trabalho para a Tuberculose na Grande Lisboa - TB-TASK-FORCE for Greater Lisbon" - Coordinator - Prof. Leonard Amaral.
5. 2002 - 2005 - Researcher in the project - Fundação Calouste Gulbenkian - " Pesquisa de novos marcadores de imunidade celular para a detecção precoce da infecção por *Mycobacterium tuberculosis* - New cellular immune markers for early detection of active TB" - Coordinator - Prof. Leonard Amaral.
6. 2002 - 2005 - Researcher in the project - Fundação para a Ciencia e Tecnologia - (POCTI/FCB/37579/2001)" A actividade antimicobacteriana dos derivados de fenotiazinas, uma alternativa efectiva contra M. tuberculosis resistente aos antibióticos - Phenothiazines as an effective alternative against MDRTB" - Coordinator - Prof. Leonard Amaral.
7. 2008 - 2011 - Member/Researcher in the EU Consortium/Action – “Cost Action BM0701 - Antibiotic Transport and Efflux : New Strategies to combat bacterial resistance (Acronym:ATENS) “- European Science Foundation.
8. 2009 - 2012 - Researcher in the project –“Diagnóstico e Epidemiologia Molecular de M/XDR-TB na Grande Lisboa: a Detecção Precoce na Prevenção da Emergência e Disseminação de Estirpes de M. tuberculosis Extensivamente Resistentes. - Early Molecular Detection of M/XDRTB in the Great Lisbon Healthcare Region” - Fundação Calouste Gulbenkian - Serviço de Saúde e Desenvolvimento Humano – Ref. P-99934 - Programa de Apoio à Investigação na Área da Microbiologia Clínica. Coordinator - Prof. Isabel Couto.
9. 2010 - 2013 - Researcher in the project - Quadro de Referência Estratégico Nacional (QREN)- "Acompanhamento da sequenciação e validação de “primers”, anotação e sua validação, construção de uma "toolbox" de transcriptómica dirigida e implementação de ensaios de qRT-PCR de duas estirpes de *Sphingomonas* sp. produtoras de carotenoides". Coordinator - Biotech company - Biotrend,Lda.

10. 2010 - 2013 - Researcher in the project - Fundação para a Ciência e Tecnologia - (PTDC/CVT/111634/2009) – ZoonTB - Novas abordagens moleculares para a detecção e discriminação de membros do Complexo *Mycobacterium tuberculosis* associados a tuberculose animal e avaliação do potencial zoonótico destas espécies em Portugal” - Instituto Nacional de Recursos Biológicos, I.P. (INRB/MADRP) instituição proponente - Coordinator - Inv. Doutor João Inácio.
11. 2011 - 2014 - Researcher in the project - Fundação para a Ciência e Tecnologia - (PTDC/BIA-MIC/121859/2010) - “ Type-II NADH-menaquinone oxidoreductase (NDH-2) and the respiratory chain of *M. tuberculosis*: new therapeutic targets to fight tuberculosis.” - Grupo de Micobactérias da Unidade de Microbiologia do IHMT/UNL (instituição proponente). Parceiro: Fundação da Faculdade de Ciências e Tecnologia (FFCT/FCT/UNL). Coordinator - Prof. Isabel Couto.
12. 2013 - 2016 - Researcher in the project - Fundação para a Ciência e Tecnologia - (PTDC/IVC-COM/5016/2012) - “OSYRISH - Organizational and Informational System to Improve Healthcare Associated Infections management in a set of Hospitals -.” Unidade de Saúde Internacional do IHMT/UNL (instituição proponente). Parceiros: Hospitais de Lisboa e da CPLP. Coordinator - Prof. Luis Lapão.
13. 2015-2017 - Researcher in the project - Programa Iniciativas em Saúde Pública | EEA Grants - HAITool – A Toolkit to Prevent, Manage and Control Healthcare-Associated Infections in Portugal (EEA Grants 182DT3). Unidade de Saúde Internacional do IHMT/UNL (instituição proponente). Parceiros: Centro Hospitalar de Lisboa Oriental - Lisbon, Portugal e The University Hospital of Northern Norway, Tromsø, Norway. Coordinator - Prof. Luis Lapão.
14. 2015 - 2018 - Researcher in the project - Fundação de Amparo à Pesquisa do Estado do Rio de Janeiro - “Infecção Mista com diferentes linhagens de *M.tuberculosis* ou *M.atípicas*: papel no diagnóstico e tratamento da TB e TB resistente”, Entidade financiadora FAPERJ – Edital FAPERJ N.º 03/2015 – “Apoio a Projetos Temáticos no Estado do Rio de Janeiro – 2015”. Esta proposta integra a estratégia de Gestão em áreas Estratégicas das Unidades Acadêmicas da área da Saúde da UFRJ. Coordenação do Prof Afranio Lineu Kritski, Prof titular da Faculdade de Medicina da UFRJ.
15. 2017 – 2020- - Researcher in the project - Becton-Dickinson, USA 2017 - “Avaliação do sistema automatizado BACTEC MGIT 960-TB eXiST como teste quantitativo de suscetibilidade aos antimicrobianos para *Mycobacterium tuberculosis*”. Coordenado pela pesquisadora Doutora Erica Chimara, Instituto Adolfo Lutz, São Paulo.
16. 2017 – 2020 -- Researcher in the project - “Implementação de um sistema semiautomatizado de detecção de resistência a drogas de primeira linha no Centro de Referência para tratamento de tuberculose resistente do Estado do Rio Grande do Sul e avaliação do impacto da implementação dessa tecnologia, bem como monitoramento da tuberculose resistente no Centro de Referência”, Submetido à CHAMADA FAPERGS/MS/CNPq/SESRS n. 03/2017 PROGRAMA PESQUISA PARA O SUS: GESTÃO COMPARTILHADA EM SAÚDE PPSUS – 2017. Coordenado pela pesquisadora Doutora Elis Regina Dalla Costa.
17. 2018-2021 - Researcher in the project - Researcher in the project - Fundação para a Ciência e Tecnologia – (02/SAICT/2017: C493201324-00089525) “Preventing antimicrobial resistance in the community - the safe use of biocides” Unidade de Microbiologia Médica e GHTM do IHMT/UNL (instituição proponente). Parceiro Faculdade de Medicina Veterinária da Universidade de Lisboa. Coordinator - Prof. Isabel Couto.

EXPERIENCE AS SCIENTIFIC ADVISER/SUPERVISOR (N=43):

Post-doctoral fellows supervised or ongoing (n= 3)

Post-doctoral fellows co-supervised or ongoing (n= 3)

PhD Students supervised or ongoing (n= 5)

PhD students co-supervised or ongoing (n= 5)

MSc Students supervised or ongoing (n = 24)

BSc students supervised (n = 6)

1. 1995/1996 – Co-supervisor of Paulo Jorge Gonçalves de Bettencourt - Licenciatura Thesis in Engenharia Biotecnológica do Instituto Superior de Humanidades e Tecnologias (ISHT) / Universidade Lusófona – ".- Supervisor Prof^a. Doutora Laura Brum
2. 1996/1997 - Supervisor of Patrícia Raquel Fernandes de Melo Moreira - Licenciatura Thesis in Microbiologia pela Escola Superior de Biotecnologia da Universidade Católica Portuguesa - "Avaliação do teste de diagnóstico *Mycobacterium tuberculosis* LCX Abbott para amostras extrapulmonares".
3. 1996/1997 - Supervisor of Susana Frazão Pinheiro - Licenciatura Thesis in Microbiologia pela Escola Superior de Biotecnologia da Universidade Católica Portuguesa - "Avaliação do teste de identificação MTB LCX Abbott para amostras pulmonares".
4. 2001/2002 - Supervisor of Ana Isabel Caldeira de Jesus - Licenciatura Thesis in Engenharia Biotecnológica da Universidade Lusófona - "Resistência à tetraciclina em *Escherichia coli* por mecanismos de extrusão";.
5. 2003/2004 - Supervisor of Mafalda Lopes Brito - Licenciatura Thesis in Engenharia Biotecnológica do Instituto Superior Técnico da Universidade Técnica de Lisboa - "Resistência aos antibióticos em *Staphylococcus aureus* e *Escherichia coli* por mecanismos de extrusão".
6. 2003/2004 - Supervisor of - Francisco Estrela de Soure Dores - Licenciatura Thesis in Biologia Microbiana da Faculdade de Ciências de Lisboa - "Isolamento, purificação e caracterização de uma fracção proteica do envelope celular de *Staphylococcus aureus* associada à adaptação a elevadas concentrações de brometo de etídio".
7. 2004/2005 - Supervisor of Maria João Lobo da Cruz Rocha Monteiro Caetano - MSc in Medical Microbiology Thesis (IHMT/UNL) - "Diagnóstico molecular de micobacterioses em pacientes co-infectados com o VIH. Importância clínica, laboratorial e epidemiológica (em colaboração com o Hospital Egas Moniz)".
<http://sd01.ihmt.unl.pt/docbweb/plinkres.asp?Base=GERAL&Form=BIBLIO&StartRec=0&RecPag=5&NewSearch=1&SearchTxt=%22AU%20CAETANO%2C%20Maria%20Jo%20E3o%22%20%2B%20%22AU%20CAETANO%2C%20Maria%20Jo%20E3o%24%22>
<http://memoria-africa.ua.pt/Catalog/ShowRecord.aspx?MFN=393851>
8. 2004/2005 - Supervisor of Liliana Isabel Dias Rodrigues- MSc in Medical Microbiology Thesis (IHMT/UNL) - "Diagnóstico precoce da tuberculose multiresistente na Grande Lisboa".
<http://memoria-africa.ua.pt/Catalog/ShowRecord.aspx?MFN=393780>
9. 2006/2007 - Supervisor of - Ana Laura Paixão - "Modelação do efluxo de Brometo de Etídio em *Escherichia coli*". MSc in Biological Engineering from Instituto Superior Técnico da Universidade Técnica de Lisboa .
10. 2006/2007 - Supervisor of Ana Daniela de Araújo Sampaio - MSc in Medical Microbiology Thesis (IHMT/UNL)- "A contribuição da resistência fenotípica na resistência aos tuberculostáticos no género *Mycobacterium*".
<http://www.itqb.unl.pt/events/master-thesis/master-thesis-in-medical-microbiology-7>

11. 2006/2007 - Supervisor of Ana Catarina Heitor Martins Cardoso - MSc in Medical Microbiology Thesis (IHMT/UNL)- "Efluxo de compostos fluorescentes em *Escherichia coli* e sua correlação com a resistência clínica aos antibióticos." <http://www.itqb.unl.pt/events/master-thesis/master-thesis-in-medical-microbiology-4>
12. 2006/2007 - Co-supervisor of Sofia Maria Mourão Marques dos Santos Costa – MSc in Medical Microbiology Thesis (IHMT/UNL) - "Caracterização de proteínas do envelope celular de *S. aureus* associadas ao efluxo de compostos biocidas". <https://run.unl.pt/handle/10362/19283>
<http://www.itqb.unl.pt/support-services/library/itqb-thesis>
13. 2007/2008 - Supervisor of Nadia Borges Charepe - MSc in Biomedical Sciences Thesis (IHMT/UNL) - "Estudo biológico dos mecanismos de resistência aos antibióticos desenvolvido em *Escherichia coli* sujeita a pressão antibiótica prolongada". <https://run.unl.pt/handle/10362/19222>
<http://memoria-africa.ua.pt/Catalog/ShowRecord.aspx?MFN=393970>
14. 2008/2009 - Supervisor of Jorge Alexandre dos Santos Ramos – MSc in Medical Microbiology Thesis (IHMT/UNL) - "Avaliação do efeito sinérgico de inibidores de bombas efluxo na susceptibilidade do género *Mycobacterium* aos tuberculostáticos". <https://run.unl.pt/bitstream/10362/10272/1/Transporte%20de%20brometo%20de%20et%3%ADdio%20atrav%3%A9s%20da%20parede%20de%20Mycobacterium%20smegmatis.pdf>
15. 2008/2009 - Supervisor of Susana Cristina Nunes Costa – MSc in Medical Microbiology Thesis (IHMT/UNL) - "Caracterização bioquímica e molecular do efluxo de Brometo de Etídeo em *Escherichia coli*" <https://run.unl.pt/handle/10362/5350>
16. 2004/2008 - Co-supervisor of Marta Lopes Martins (SFRH/BD/14319/2003) - PhD Thesis in Medical Microbiology of IHMT/Universidade Nova de Lisboa - "The antimycobacterial activity of thioridazine derivatives, against Drug Resistant *Mycobacterium tuberculosis*. In vitro, ex vivo and in vivo studies".- Supervisor Prof. Doutor Leonard Amaral. <http://sd01.ihmt.unl.pt/docbweb/plinkres.asp?Base=GERAL&Form=BIBLIO&StartRec=0&RecPag=5&NewSearch=1&SearchTxt=%22AU%20MARTINS%2C%20Marta%20Lopes%22%20%2B%20%22AU%20MARTINS%2C%20Marta%20Lopes%24%22>
<http://memoria-africa.ua.pt/Catalog/ShowRecord.aspx?MFN=393922>
17. 2004/2008 - Co-supervisor of Ana Sofia Fernandes Martins (SFRH/BD/19445/2004)– - PhD Thesis in Medical Microbiology of IHMT/Universidade Nova de Lisboa -"The effects of *Carpobrotus edulis* methanol extract and purified compound(s) against multi-drug resistant *Mycobacterium tuberculosis* strains" - Supervisor Prof. Doutor Leonard Amaral.
18. 2006/2010 - Supervisor of Liliana Isabel Dias Rodrigues (SFRH/BD/24931/2005) - PhD Thesis in Medical Microbiology of IHMT/Universidade Nova de Lisboa - "The role of the efflux mechanisms in Multi-drug Resistance in *Mycobacterium tuberculosis*". <https://run.unl.pt/handle/10362/4813>
19. 2009/2014 - Supervisor of Diana Isabel Oliveira Machado (SFRH/BD/65060/2009) - PhD Thesis in Medical Microbiology of IHMT/Universidade Nova de Lisboa - "The The dynamics of drug resistance in *Mycobacterium tuberculosis*: exploring the biological basis of multi- and extensively drug resistant tuberculosis (MDR/XDRTB) as a route for alternative therapeutic strategies". <https://run.unl.pt/handle/10362/20311>

20. 2009/2014 - Co-supervisor of - Pedro Miguel Nisa Costa (SFRH/BD/64136/2009) - PhD Thesis in Medical Microbiology of IHMT/Universidade Nova de Lisboa - “Novas abordagens moleculares para a detecção e diferenciação rápida de espécies do complexo *Mycobacterium tuberculosis* e avaliação do seu potencial zoonótico em Portugal”. - Supervisor Doutor João Inácio.
<https://run.unl.pt/handle/10362/19272>
21. 2009/2010 – Co-supervisor of Miguel José Simas do Rosário Evaristo – MSc in Biomedical Sciences Thesis (IHMT/UNL) - “Biological activity of well-defined heterocyclic compounds on efflux pump systems of bacteria and cancer cells”. - Supervisor Doutora Gabriella Spengler.
<https://run.unl.pt/handle/10362/5617>
22. 2010/2014 - Post-Doc Supervisor of - Marta Sofia Lopes Martins (SFRH/BPD/63871/2009) - Post-Doc program in Medical Microbiology of IHMT/Universidade Nova de Lisboa - “Targeting the human macrophage with combinations of second-line TB drugs and inhibitors of Ca²⁺ and K⁺ transport to enhance the killing of intracellular Multi-Drug Resistant *M. tuberculosis* (MDR-TB) – a novel approach to limit the emergence of XDRTB”.
23. 2010/2011 - Co-supervisor of Lisa Santos Machado – MSc in Medical Microbiology Thesis (IHMT/UNL) - “The inhibitory activity of synthetic compounds and ions against transporters of multi-drug resistant bacteria”. - Supervisor - Professor Doutor Leonard Amaral.
<https://run.unl.pt/handle/10362/7712>
24. 2010/2011 - Supervisor of Antónia Rosa Trindade Pinto – MSc in Biomedical Sciences Thesis (IHMT/UNL) - O Efluxo em *Escherichia coli*: novas estratégias terapêuticas para combate à multi-resistência.”
<https://run.unl.pt/handle/10362/14014>
25. 2010/2011 - Co-supervisor of Vanessa Roque Cabral – MSc in Química Farmacêutica e Terapêutica da Faculdade de Farmácia da Universidade de Lisboa - “Efflux pump inhibitors in multidrug resistant bacterial strains from medicinal plants”. Supervisor - Professora Doutora Maria José Umbelino Ferreira.
<http://repositorio.ul.pt/handle/10451/11231>
26. 2010/2011 – Co-supervisor of Ana Carolina Vencá – MSc in Biotecnologia do Instituto Superior Técnico da Universidade Técnica de Lisboa, “Identification and characterisation of efflux pumps in *Rhodococcus erythropolis*.” Supervisor - Doutora Carla C.C.R. de Carvalho.
<https://fenix.tecnico.ulisboa.pt/cursos/mbiotec/dissertacao/2353642392242>
27. 2011/2013 - Co-supervisor of Nureisha Abdul Gafur Cadir – MSc in Saúde Pública da Faculdade de Medicina da Universidade Eduardo Mondlane – Mozambique - “Avaliação do desempenho dos testes imunocromatográficos rápidos (BD MGIT TBc Identification Test e TB Ag MPT64 Device) para a diferenciação do Complexo *M. tuberculosis* das Micobactérias Não Tuberculosas”. Supervisores - Professor Doutor Mohsin Sidat e Doutor Eduardo Samo Gudo.
28. 2012/2015 - Post-Doc Supervisor of Paulo Rabna (SFRH/BPD 64/2011) Instituto Nacional de Saúde Pública da Guiné-Bissau - “Tuberculose Multirresistente na Guiné-Bissau ”.
29. 2012/2013 – Supervisor of Vânia Filipa Ferreira da Silva – MSc in Biomedical Sciences Thesis (IHMT/UNL) – “Estudo de determinantes de efluxo em *Mycobacterium avium* e a sua relação com a resistência aos antibióticos.” Co-supervisor – Professora Isabel Couto.
30. 2013/2014 – Co-supervisor of Ana Luísa Chocalheiro – MSc in Biotecnologia da Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, “Application of Lab-on-Paper technology to colorimetric biosensors for the detection of tuberculous mycobacteria.” Supervisor – Professora Doutora Elvira Fortunato.
<https://run.unl.pt/handle/10362/13836>

31. 2013/2014 – Co-supervisor of André Meneses Valério – MSc in Engenharia Biomédica da Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, “Desenvolvimento de testes de susceptibilidade a antibióticos do tipo E-tests em suportes de papel utilizando a tecnologia lab-on-paper” Supervisor – Professora Doutora Elvira Fortunato.
<http://www.fct.unl.pt/en/node/26736>
32. 2013/2017 - Supervisor of Moisés Francisco - PhD Thesis in Medical Microbiology of IHMT/Universidade Nova de Lisboa - “Caracterização microbiológica e molecular das estirpes de Salmonella spp isoladas em amostras de fezes, águas residuais e em ovos de produção aviárias na região de Luanda e dos seus perfis de resistência aos antimicrobianos – o seu impacto na saúde pública.”
33. 2015/2018 - Supervisor of Ana Maria Buttle de Mendonça Mourão Possidónio de Armada - PhD Thesis in Human Genetics and Infectious Diseases of IHMT/Universidade Nova de Lisboa - “Modulation of ABC transporters in multidrug resistance (MDR): From prokaryotic to eukaryotic cells.” Co-supervisor – Professora Isabel Couto e Professor Sebastião Rodrigues.
34. 2014/2017 - Post-Doc Co-Supervisor of – João Ruben Lucas Mota Perdigão (SFRH/BPD/95406/2013) - Post-Doc program in Microbiology of Pharmacy Faculty/Universidade de Lisboa - “Tuberculosis in Portugal and Portuguese-speaking African Countries: From Genomics to Product Development”. Supervisor – Professora Doutora Isabel Portugal.
35. 2014/2015 - Supervisor of Ana Sofia Mourão Simões – MSc in Medical Microbiology Thesis (IHMT/UNL) - “Contribuição do efluxo para a aquisição de resistência aos antibióticos em isolados clínicos de *Acinetobacter baumannii* . Co-supervisor – Doutora Diana Machado.
<https://run.unl.pt/handle/10362/19196>
36. 2014/2015 – Supervisor of Marta Isabel Martins Gabriel – MSc in Biomedical Sciences Thesis (IHMT/UNL) – “Resposta imunitária inflamatória de macrófagos na presença de inibidores de efluxo.” Co-supervisors – Professora Gabriela Santos-Gomes e Investigadora Ana Maria Buttle de Mendonça Mourão Possidónio de Armada.
<https://run.unl.pt/handle/10362/19084>
37. 2014/2015 – Co-Supervisor in Portugal of – Tatiane Silveira Coelho - Bolsa -Doutorado Sandwich no Brasil – PhD thesis - “Relação entre o mecanismo de efluxo e a resistência aos antimicrobianos em isolados clínicos de *Mycobacterium tuberculosis*” -.Coorientador em Portugal: Prof^a. Dr. Miguel Viveiros. Orientador no Brasil: Prof. Dr. Pedro Eduardo Almeida da Silva e Prof. Dra. Andrea von Groll (NUPEMM/FURG).
<http://www.lume.ufrgs.br/handle/10183/117897>
38. 2015/2018 - Post-Doc Supervisor of - Diana Isabel Oliveira Machado (SFRH/BPD/100688/2014) - Post-Doc program in Medical Microbiology of IHMT/Universidade Nova de Lisboa - “Exploring the mode of action of efflux inhibitors against *Mycobacterium tuberculosis*: an approach to prevent efflux-mediated resistance and boost therapy in active and latent tuberculosis”.
39. 2015/2016 - Post-Doc Co-Supervisor of – Alexandra Simões - Post-Doc program in Medical Microbiology of IHMT/Universidade Nova de Lisboa - “Using molecular, epidemiological, clinical and social data to prevent and control antibiotic resistant healthcare-associated infections”. Programa Iniciativas em Saúde Pública | EEA Grants - HAITool – A Toolkit to Prevent, Manage and Control Healthcare-Associated Infections in Portugal (EEA Grants 182DT3). Unidade de Saúde Internacional do IHMT/UNL (instituição proponente). Parceiros: Centro Hospitalar de Lisboa Oriental - Lisbon, Portugal e The University Hospital of Northern Norway, Tromsø, Norway. Main-supervisor and Coordinator – Investigador Doutor Luis Lapão.

40. 2016/2017 - Supervisor of Mariana Silva – MSc in Medical Microbiology Thesis (UNL) – “A contribuição do efluxo na resistência aos β -lactâmicos em isolados clínicos de *Escherichia coli*”. Co-supervisor – Doutora Diana Machado
41. 2016/2017 - Supervisor of Jessica Antunes – MSc in Medical Microbiology Thesis (UNL) - Estudo da contribuição de bombas de efluxo, porinas e β -lactamases na resistência aos carbapenemos em isolados clínicos de *Acinetobacter baumannii*.” Co-supervisor – Doutora Diana Machado
42. 2016/2017 – Supervisor of Raquel Costa – MSc in Biomedical Sciences Thesis (IHMT/UNL) – Estudo da contribuição de fontes de carbono e inibidores de efluxo na eliminação de bactérias dormentes tolerantes aos antibióticos.” Co-supervisor – Doutora Diana Machado
43. 2016/2017 – Supervisor of Samuel Antunes – MSc in Biomedical Sciences Thesis (IHMT/UNL) – Optimização de um protocolo de fluorimetria em tempo real em microplaca de 96-poços para quantificação de actividade de efluxo em bactérias”. Co-supervisor – Doutora Diana Machado

AWARDS:

2003 – Merit Award for Research in Infectious Diseases (2° Place) - Glaxo-Smithkline Fundation – Portuguese Society of Infectious Diseases - “A Implementação do Programa “TB-FAST-TRACK” de Combate à Tuberculose Multiresistente na Grande Lisboa - Implematantion of the TB-FAST-TRACK program in Lisboa”.

2009 – Merit Award for Best Panel Communication National Congress of Microbiology and Biotechnology - Congresso Nacional de Microbiologia e Biotecnologia de 2009 d- “Cell and Tissue Engineering, Biomaterials and Nanobiotechnologies”. Authors: Veigas B., Perdigão J., Portugal I., Couto I., Viveiros M. and Baptista P.V. (2009) Use of Au-nanoprobes for the detection of SNPs associated with antibiotic resistance in *Mycobacterium tuberculosis*. Congresso Microbiotec 2009. Congresso Nacional de Microbiologia e Biotecnologia MicroBiotec09. Vilamoura (Portugal) 28 a 30 de November de 2009.

2012 – Santander/Totta – Universidade Nova de Lisboa - Merit Award 2012 - Prémio de Mérito Científico Santander Totta – Universidade Nova de Lisboa – Title: NanoTB - Nanodiagnosics for XDRTB at point-of-need. Miguel Viveiros (IHMT/UNL), Pedro Baptista (FCT/UNL), Isabel Couto (IHMT/UNL).

2017 - Seal of Excellence European Union - European Commission, Horizon 2020, EU Framework Programme for Research and Innovation 2014-2020 - Seal of Excellence awarded to The project proposal 750982, HEMIC -Unravelling the healthy microbiome against respiratory infections: a crucial step for the development of novel preventive measures to address childhood mortality. Submitted under the Horizon 2020's Marie Skłodowska-Curie actions call H2020-MSCA-IF-2016 –by Miguel LANASPA and INSTITUTO DE HIGIENE E MEDICINA TROPICAL. Supervisor Miguel Viveiros.

<https://ec.europa.eu/research/soe/index.cfm?pg=what>

2017 - Best Panel Communication on the Section “Health Microbiology and Biotechnology”. Authors: Jéssica Antunes, Diana Machado, Isabel Couto, Teresa Pacheco, Judite Batista, Cristina Toscano, and Miguel Viveiros. 2017. “Correlation between carbapenem resistance, β -lactamases, porins and efflux pumps in *Acinetobacter baumannii* clinical isolates.” Congresso Nacional de Microbiologia e Biotecnologia (MicroBiotec17). Porto, Portugal, 7-9 December 2017.

SELECTED INVITED LECTURES (N=21):

1. **Viveiros M.** (2009). Evaluation of efflux pumps of Mycobacteria by a semi-automated EB method. Invited Speaker at COST Action BM0701: Antibiotic Transport and Efflux: New Strategies to combat bacterial resistance (ATENS), Cracovia (Polonia), a 18 may 2009.
2. **Viveiros M.** (2010). Cutaneous infections caused by mycobacteria. Invited Speaker at the Spring Meeting of the Portuguese Society of Dermatology and Venereal Diseases.. V. N. Gaia (Portugal), 23 - 24 April 2010.
3. **Viveiros M.** (2011). Atypical Mycobacteriosis - Infecções por micobacterias atípicas Invited Speaker at the XII Jornadas Nacionais de Infecçologia Pediátrica. Braga (Portugal), 19 - 21 de May 2011.
4. **Viveiros M.** (2011). Direct detection of resistance in *Mycobacterium tuberculosis*: from line to nano-probe assays. Invited Speaker at the World TB Day Conference - Contribution of scientific research in the fight against tuberculosis. Institute of Tropical Medicine, Antwerpia, (Belgica), a 22 de Março de 2011.
5. **Viveiros M.** (2011). Resistencia fisiológica em *Mycobacterium tuberculosis*: impacto na resistência adquirida e novas estratégias quimioterapeuticas adjuvantes Invited Speaker at the Simpósio Internacional de Tuberculose Avanços e desafios no século XXI 02 e 03 de Dezembro de 2011.
6. **Viveiros M.** (2012). Cost-efficient diagnosis of tuberculosis: culture, molecular techniques and immunological markers. Invited Speaker at the European Congress of Clinical Microbiology and Infectious. 22nd European Congress of Clinical Microbiology and Infectious Diseases, London, United Kingdom, 31 March – 3 April 2012.
7. **Viveiros M.** (2012). Test de susceptibilidad cuantitativo de 1^a y 2^a línea para *Mycobacterium tuberculosis* usando lo BACTEC MGIT 960 con software TB eXiST : un protocolo en desarrollo en Europa. Invited Speaker at the XVI Reunion del grupo español de Micobacteriologia - GEM 2012. Cordoba 22 – 24 March 2012
8. **Viveiros M.** (2012). The semi-quantitative drug susceptibility test of 1st and 2nd line drugs for Mycobacterium tuberculosis using the MGIT 960TBTM culture system coupled with the BD EpiCenter™ TB-eXiST software. XIV Simpósio Brasileiro de Micobactérias - XXI Congresso Latinoamericano de Microbiología. Santos, São Paulo, Brasil. 1-5 November 2012.
9. **Viveiros M.** (2013). Significance of Efflux in Multidrug resistance in Mycobacterium tuberculosis. Invited Speaker at the Gordon Research Conferences. Multi-Drug Efflux Systems. Shared Molecular Mechanisms but Diverging Roles in Physiology and Medicine. Four Points Sheraton / Holiday Inn Express, Ventura, (CA, USA), March 17-22.
10. **Viveiros M.** (2013). Epidemiology of infections due to NTM. Speaker at the Infections due to non-tuberculous mycobacteria: Educational Workshop – 23rd European Congress of Clinical Microbiology and Infectious (ECCMID). European Congress of Clinical Microbiology and Infectious Diseases, Berlin (Germany), 31 March to 3 April 2013.
11. **Viveiros M.** (2013) O Projecto FORDILAB-TB Formação em Diagnóstico Laboratorial de Tuberculose no espaço da CPLP. Seminar: Innovations for Tuberculosis Control, Maputo (Mozambique) 14 – 16 May 2013.
12. **Viveiros M.** (2013) "Estética y MNT. Un problema emergente en Portugal". XVII Taller Internacional sobre Tuberculosis, Barcelona (Spain) 4 – 5 November 2013.
13. **Viveiros M.** (2014) Efflux inhibitors as adjuvants in drug resistant tuberculosis therapy. World's Tuberculosis day international conference, Ghent University "Het Pand", Gent, Belgium. 21st March 2014.

14. **Viveiros M.** (2014). How to diagnose mycobacterial infections in low-income countries: Educational Workshop – Invited Speaker at the 24th European Congress of Clinical Microbiology and Infectious (ECCMID). European Congress of Clinical Microbiology and Infectious Diseases, Barcelona (Spain), 10th May 2014.
15. **Viveiros M.** (2014) Efflux inhibitors against drug resistant *Mycobacterium tuberculosis*: adjuvants of antimycobacterial agents and enhancers of macrophage killing activity. Invited Speaker at the VII Meeting of the Latin-American Society of Tuberculosis and other Micobacteriosis (SLAMTB), Canela, Brazil. 15th September 2014.
16. **Viveiros M.** (2014) Programatic Implementation of Molecular Tests for TB diagnoses in low and middle income countries – Challenges and Perspectives. Invited Speaker at the IV National Workshop of Brazilian Tuberculosis Research Network (REDETB), Canela, Brazil. 15th September 2014.
17. **Viveiros M.** (2014) Infecções respiratórias: tuberculose pulmonar - novos métodos de identificação e detecção de resistências - I Jornadas do Médico Interno de Patologia Clínica. Ordem dos Médicos, Lisboa, Portugal, 26th September 2014.
18. **Viveiros M.** (2015) Efflux Modulators as Adjuvants of Anti-Tuberculosis Therapy and Enhancers of Macrophage Killing Activity: A New Concerted Strategy Against Drug Resistant *Mycobacterium tuberculosis*. Invited Speaker at the Gordon Research Conferences. Multi-Drug Efflux Systems: A Paradigm Shift from Fundamental Mechanisms to Practical Applications. Renaissance Tuscany Il Ciocco Resort; Lucca (Barga), Italy, April 26th-May 1st.
19. **Viveiros M.** (2016). How to diagnose mycobacterial infections in low-income countries: Educational Workshop – Invited Speaker at the 24th European Congress of Clinical Microbiology and Infectious (ECCMID). European Congress of Clinical Microbiology and Infectious Diseases, Barcelona (Spain), 10th May 2014.
20. **Viveiros M.** (2016) Molecular Techniques will substitute Phenotypic Traditional approaches for MDR/XDR TB diagnosis? Invited Speaker at the V National Workshop of Brazilian Tuberculosis Research Network (REDETB), Maceió (Brazil). 22nd August 2016.
21. **Viveiros M.** (2017) Omics and Meta Systemic Approaches - . Invited Speaker and Session moderator at the Gordon Research Conferences. Integrated Approaches to Understanding the Role of Multi-Drug Efflux Systems in Health and Disease. Hotel Galvez, Galveston, TX ,USA, March 26-31, 2017.

CONFERENCE ORAL AND POSTER COMMUNICATIONS (N= >250).