

Sofia Santos Costa

Curriculum vitae

Lisbon, May 2020

Sofia Santos Costa

Curriculum vitae

PERSONAL DATA

Full name: Sofia Maria Mourão Marques dos Santos Costa

Nationality: Portuguese

Position: Researcher

Institution: Instituto de Higiene e Medicina Tropical, Universidade NOVA de Lisboa (IHMT-NOVA);
Global Health and Tropical Medicine (GHTM), IHMT-NOVA.

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Publishing name: Sofia Santos Costa (SS Costa, S Santos Costa)

Identifiers: Ciência ID: E51C-95BC-3797; Orcid ID: 0000-0002-4096-2410; Scopus author ID: 7201998885; Researcher ID: L-7929-2013

EDUCATION

2013.

PhD in Biomedical Sciences, specialization Microbiology. Instituto de Higiene e Medicina Tropical, Universidade NOVA de Lisboa.

2008.

MSc in Medical Microbiology. Universidade NOVA de Lisboa.

2005.

Graduation in Applied Chemistry, branch Biotechnology (5 years). Faculdade de Ciências e Tecnologia, Universidade NOVA de Lisboa (FCT-NOVA).

AREAS OF SCIENTIFIC RESEARCH

Mechanisms of resistance to antibiotics and biocides in staphylococci

Efflux-mediated antimicrobial resistance in staphylococci and other bacteria

Biofilms and efflux

Phenotypic and genotypic methodologies for evaluation of efflux activity and efflux inhibitors

CURRENT STATUS AND PREVIOUS POSITIONS

Since December 2018	Researcher at IHMT - NOVA
September 2014 – November 2018	Post-doctoral Fellow. Fellowship SFRH/BPD/97508/2013, Fundação para a Ciência e a Tecnologia (FCT) – “Exploring routes of animal-to-human staphylococci transmission: trying to break the cycle of virulence and antimicrobial resistance dissemination”. GHTM, Unidade de Microbiologia Médica, IHMT-NOVA. Supervisor: Isabel Couto (IHMT-NOVA); Co-supervisor: Constança Pomba (FMV, UL)
February – August 2014	Researcher (BI grant). Project “Type-II NADH-menaquinone oxidoreductase (NDH-2) and the respiratory chain of <i>M. tuberculosis</i> : new therapeutic targets to fight tuberculosis”. Ref. PTDC/BIA-MIC/121859/2010 (FCT). IHMT-NOVA.
March – August 2013	Researcher (BI grant). Project “Helper compounds against multidrug resistant bacteria: revealing their mechanism of action”. Ref. PTDC/BIA-MIC/105509/2008 (FCT). IHMT-NOVA.
January 2009 – December 2013	PhD student. Scholarship SFRH/BD/44214/2008, FCT - Thesis “Efflux pump activity in drug resistance of <i>Staphylococcus aureus</i> ”. Unit of Medical Microbiology, IHMT-NOVA; Centro de Recursos Microbiológicos (CREM), NOVA. Supervisor: Isabel Couto (IHMT-NOVA)
June 2007 - May 2008	Research technician. Project “Mass screening of new microorganisms or biological reactions technologically interesting”. Ref. SIME I&DT Nº 00/22470, funding: IAPMEI. Biotrend – Inovação e Engenharia em Biotecnologia, SA; IHMT-NOVA.
October 2006 – July 2008	MSc student. Thesis “Phenotypic and genotypic characterization of a <i>Staphylococcus aureus</i> strain adapted to ethidium bromide”. Unit of Medical Microbiology, IHMT-NOVA. Supervisor: Isabel Couto (IHMT-NOVA); Co-supervisor: Miguel Viveiros (IHMT-NOVA)
February – December 2004	Graduation Thesis. Thesis “Production of recombinant proteins”. Group of Molecular Genetics of Metaloproteins, Instituto de Tecnologia Química e Biológica (ITQB-NOVA); FCT-NOVA. Supervisor: Lígia Saraiva (ITQB-NOVA); Co-supervisor: Ana Madalena Ludovice (FCT-NOVA)

ADDITIONAL TRAINING

Relevant training experiences

23 January 2020	Workshop Awareness raising to coaching methodologies in the supervision of MSc and PhD Thesis (4h). IHMT-NOVA.
28 April – 3 May 2019	Gordon Conference “Multi-drug efflux systems”, Lucca (Barga), Italy.
26 – 31 March 2017	Gordon Conference “Multi-drug efflux systems”, Galveston, Texas, USA.
11 – 15 January 2016	Short Course “Molecular epidemiology of infectious and parasite diseases”. IHMT-NOVA, Lisbon, Portugal
14 - 18 September 2015	Short Course “Pathogen genomics and genetic epidemiology of infectious diseases”. London School of Hygiene and Tropical Medicine, UK.
November - December 2012	Training at Workgroup Molecular Microbiology and Antimicrobial Resistance, Institute of Farm Animal Genetics, Friedrich-Loeffler-Institute, Neustadt-Mariensee, Germany (Stefan Schwarz’s Lab).
4 – 10 July 2010	462 nd WE Heraeus Seminar “Transport across membranes: multiple drug resistance, mechanisms and new tools” (40h). Jacobs University Bremen, Bremen, Germany.
3 – 11 March 2007	Workshop “Systems approaches to membrane proteins” (40h). Institute for membranes and systems biology and the Astbury centre, University of Leeds, UK.
July – September 2003	SOCRATES Exchange program at the Kostas Iatrou’s Laboratory of Molecular Genetics and Biotechnology of Insects, Biology Institute, National Centre of Scientific Research DEMOKRITOS, Athens, Greece.

Additional training experiences

17 June 2019	Mini-Symposium "Biological insights into pathogenicity in staphylococci". ITQB-NOVA.
14 March 2019	3rd Meeting of the ONEIDA Consortium - An Omics network to prevent and control Infectious Diseases and Antimicrobial Resistance. ITQB-NOVA.
03 December 2018	I International Conference NOVAhealth on Chronic Disease and Infection - Resistance to antibiotics: from prevention to control of infection in “One Health”. NOVA.
22 – 23 September 2016	Workshop “Modulation and Climate Prediction in Health” (12 h). IHMT-NOVA.
20 – 21 November 2014	Seminar “Host-pathogen interaction towards a personalized medicine” (8h). IHMT-NOVA.
3 - 4 November 2014	International Seminar “Potable water: global access, quality and microbiology” (8h). IHMT-NOVA.
18 June 2014	Workshop “Lisbon workshop on new strategies to fight tuberculosis” (4h). Faculdade de Farmácia, UL.
24-26 April 2013	Workshops “Genomic variation and different sequencing technologies” (2h) and “Transcriptome analysis” (4h). Hosted by Thomas D. Otto, Wellcome Trust Sanger Centre. IHMT-NOVA.

20 April 2013	Workshop “Multidrug-resistant tuberculosis” (7h). 2 nd National Congress of Tropical Medicine, IHMT-NOVA.
1 – 3 December 2010	Workshop EW09-007 “Multi-disciplinary consortium for the development of effective, but non-toxic drugs against MDR-TB and XDR-TB”, funded by the European Science Foundation (ESF). (11h). IHMT-NOVA.
8 April 2009	URIA <i>Mycobacterium</i> Workshop (7h). Faculdade de Farmácia, UL.
9 May 2008	Workshop LightCycler® 480 (4h30). Roche Sistemas de Diagnóstico, Lda., Amadora, Portugal.
18 March 2008	2 nd Quilaban Workshop on real-time PCR. Instituto de Medicina Molecular (IMM), Faculdade de Medicina, Universidade de Lisboa.
2 - 4 December 2004	Participation at the XIV National Congress of Biochemistry. Vilamoura, Portugal.
10 – 12 April 2003	Participation at the VI Jornadas of Biological Engineering and IV National Meeting of Young Biotechnologists. Vila do Gerês, Portugal.

PARTICIPATION IN R&D PROJECTS

As Co-PI:

October 2018 - September 2020: “BIOSAFE – Preventing antimicrobial resistance in the community: the safe use of biocides”. Portugal 2020, FEDER/FCT. LISBOA-01-0145-FEDER-030713. 240 K€

As a Team member:

Since October 2019: Network ENOVAT “European Network for Optimization of Veterinary Antimicrobial Treatment” (COST ACTION, CA18217).

Since 2015: Global Health and Tropical Medicine (GHTM), Universidade NOVA de Lisboa, FCT strategic project UID/Multi/04413/2013.

2011-2013: Centro de Recursos Microbiológicos (CREM), Universidade NOVA de Lisboa, FCT strategic Project PEst-OE/BIA/UI0457/2011

2012-2015: “Type-II NADH-menaquinone oxidoreductase (NDH-2) and the respiratory chain of *M. tuberculosis*: new therapeutic targets to fight tuberculosis”. FCT Project PTDC/BIA-MIC/121859/2010, PI: Isabel Couto.

2010-2013: “Helper compounds against multidrug resistant bacteria: revealing their mechanism of action”. PTDC/BIA-MIC/105509/2008, PI: Miguel Viveiros.

PUBLICATIONS

Bibliometric analysis

Scopus:

Total articles: 24
Sum of the times cited: 402
h-index: 11

ISI - Web of Knowledge:

Total articles: 22;
Articles with citation data: 19;
Sum of the times cited: 267;
Average citations/article: 12.71
h-index: 9

Google Scholar webpage:

Total citations: 502
Citations since 2013: 423
h-index: 12
i10 index: 13

Thesis (3)

3. **Costa SS.** Efflux pump activity in drug resistance of *Staphylococcus aureus*. PhD Thesis in Biomedical Sciences, specialization Microbiology. Instituto de Higiene e Medicina Tropical, Universidade NOVA de Lisboa, November 2013.
2. **Costa SS.** Phenotypic and genotypic characterization of a *Staphylococcus aureus* strain adapted to ethidium bromide. MSc Thesis in Medical Microbiology. Universidade NOVA de Lisboa, July 2008. [In Portuguese]
1. **Costa SS.** Production of recombinant proteins. Graduation Thesis in Applied Chemistry. Faculdade de Ciências e Tecnologia, Universidade NOVA de Lisboa, December 2004. [In Portuguese]

Articles in international scientific journals with “peer-review” (24)

2019

24. Cremers N, Belas A, **Costa SS**, Couto I, De Rooster H, Pomba C. *In vitro* antimicrobial efficacy of two medical grade honey formulations against common high-risk methicillin-resistant staphylococci and *Pseudomonas* spp. pathogens. *Vet Dermatol.* 2019. 31:90-96.
doi: 10.1111/vde.12811; Q1; JIF (2018):1.8; Times cited: 2
23. **Costa SS**, Sobkowiak B, Parreira R, Edgeworth JD, Viveiros M, Clark TG, Couto I. Genetic diversity of *norA*, coding for a main efflux pump of *Staphylococcus aureus*. *Front Genet.* 2019; 9: 710.
doi: 10.3389/fgene.2018.00710; Q1; JIF (2017): 4.151

2018

22. Francisco M, **Costa SS**, Belas A, Ramos J, Couto I, Pomba C, Viveiros M. First report of antimicrobial resistance and molecular characterization of *Salmonella enterica* serotype Typhi isolated in Luanda, Angola. *J Global Antimicrob Resist.* 2018;13:426-9.
doi: 10.1016/j.jgar.2018.02.001; Q2; JIF (2017): 2.022

21. **Costa SS**, Viveiros M, Pomba C, Couto I. Active antimicrobial efflux in *Staphylococcus epidermidis*: building up of resistance in a major opportunistic pathogen. J Antimicrob Chemother 2018;73:320-4.
doi: 10.1093/jac/dkx400; Q1; JIF (2017): 5.071; Times cited: 2

2017

20. Cannalire R, Machado D, Felicetti T, **Costa SS**, 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; 140:321-30.
doi: 10.1016/j.ejmech.2017.09.014; Q1; JIF (2017): 4.519; Times cited: 11
19. Khemiri M, Alhusain AA, Abbassi MS, El Ghaieb H, **Costa SS**, Belas A, Pomba C, Hammami S. Clonal spread of methicillin-resistant *Staphylococcus aureus*-t6065-CC5-SCCmecV-*agrII* in a Libyan hospital. J Global Antimicrob Resist 2017; 10:101-5.
doi: 10.1016/j.jgar.2017.04.014; Q3; JIF (2017): 1.276; Times cited: 4
18. Machado D, Fernandes L, **Costa SS**, Cannalire R, Manfronf G, Tabarrin O, Couto I, Sabatini S, Viveiros M. Mode of action of the 2-phenylquinoline efflux inhibitor PQQ4R against *Escherichia coli*. PeerJ. 2017;5:e3168.
doi: 10.7717/peerj.3168; Q1; JIF:N/A; Times cited: 14
17. Silva Jr L, Carrion L, Machado K, Von Groll A, **Costa SS**, Junqueira E, Ramos D, Cantos J, Seus V, Couto I, Fernandes L, Bonacorso H, Martins MA, Zanatta N, Viveiros M, da Silva PA. *In vitro* and *in silico* analysis of the efficiency of tetrahydropyridines as drug efflux inhibitors in *Escherichia coli*. Int J Antimicrob Agents. 2017; 49:308-14.
doi: 10.1016/j.ijantimicag.2016.11.024; Q1; JIF (2017): 4.097; Times cited: 9

2016

16. **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; 22:617-26.
doi:10.1089/mdr.2015.0352; Q2; JIF (2017): 2.53; Times Cited: 3
15. **Costa SS**[#], Lopes E[#], Azzali E, Machado D, Coelho T, Silva PEA, Viveiros M, Pieroni M, Couto I. An experimental model for the rapid screening of compounds against mycobacteria. Assay Drug Develop Technol. 2016;15:524-34.
shared authorship
doi: 10.1089/adt.2016.752; Q2; JIF (2017): 1.655; Times Cited: 4

2015

14. **Costa SS**, Viveiros M, Rosato AE, Melo-Cristino J, Couto I. Impact of efflux in the development of multidrug resistance phenotypes in *Staphylococcus aureus*. BMC Microbiol. 2015;15:232.
doi:10.1186/s12866-015-0572-8; Q2; JIF (2017): 2.73; Times cited: 13

13. Pieroni M, Machado D, Azzali E, **Costa SS**, Couto I, Constantino G, Viveiros M. Rational design and synthesis of thioridazine analogues as enhancers of the antituberculosis therapy. *J Med Chem.* 2015;58:5842-53.
doi: 10.1021/acs.jmedchem.5b00428; Q1; JIF (2017): 5.447; Times cited: 33
12. Machado D, Cannalire R, **Costa SS**, Manfroni G, Tabarrini O, Cecchetti V, Couto I, Viveiros M, Sabatini S. Boosting effect of 2-phenylquinoline efflux inhibitors in combination with macrolides against *Mycobacterium smegmatis* and *Mycobacterium avium*. *ACS Infect Dis.* 2015;1:593-603.
doi: 10.1021/acsinfecdis.5b00052; JIF = N/A; Times cited: 10
11. Cabral V, Luo X, Junqueira E, **Costa SS**, Mulhovo S, Duarte A, Couto I, Viveiros M, Ferreira M-JU. Enhancing activity of antibiotics against *Staphylococcus aureus*: *Zanthoxylum capense* constituents and derivatives. *Phytomedicine.* 2015;22:469-76.
doi:10.1016/j.phymed.2015.02.003; Q2; JIF (2017): 3.126; Times cited: 14

2014

10. de Carvalho CC, **Costa SS**, Fernandes P, Couto I, Viveiros M. Membrane transport systems and the biodegradation potential and pathogenicity of genus *Rhodococcus*. *Front Physiol.* 2014;5:133.
doi: 10.3389/fphys.2014.00133; Q2; JIF (2017): 3.5; Times cited: 30

2013

9. **Costa SS**, Junqueira E, Palma C, Viveiros M, Melo-Cristino J, Amaral L, Couto I. Resistance to antimicrobials mediated by efflux pumps in *Staphylococcus aureus*. *Antibiotics.* 2013;2:83-99.
doi:10.3390/antibiotics2010083; JIF = N/A; Times cited: 10
8. **Costa SS**, Viveiros M, Amaral L, Couto I. Multidrug Efflux Pumps in *Staphylococcus aureus*: an update. *Open Microbiol J.* 2013;7:59-71.
doi: 10.2174/1874285801307010059; Q3; JIF = N/A; Times cited: 131
7. **Costa SS**, Mourato C, Viveiros M, Melo-Cristino J, Amaral L, Couto I. Description of plasmid pSM52, harboring the gene for Smr efflux pump, and its involvement in resistance to biocides in an MRSA strain. *Int J Antimicrob Agents.* 2013;41:490-2.
doi: 10.1016/j.ijantimicag.2013.01.003; Q1; JIF (2017): 4.296; Times cited: 11

2012

6. Spengler G, Rodrigues L, Martins A, Martins M, McCusker M, Cerca P, Machado L, **Costa SS**, Ntokou E, Couto I, Viveiros M, Fanning S, Molnár J, Amaral L. Genetic response of *Salmonella enterica* serotype Enteritidis to thioridazine rendering the organism resistant to the agent. *Int J Antimicrob Agents.* 2012;39:16-21.
doi: 10.1016/j.ijantimicag.2011.08.013; Q1; JIF (2017): 4.296; Times cited: 20

2011

5. **Costa SS**, Falcão C, Viveiros M, Machado D, Martins M, Melo-Cristino J, Amaral L, Couto I. Exploring the contribution of efflux on the resistance to fluoroquinolones in clinical isolates of *Staphylococcus aureus*. BMC Microbiol. 2011;11:241.
doi: 10.1186/1471-2180-11-241; Q1; JIF (2017): 2.73; Times cited: 62
Erratum: BMC Microbiol. 2013;13:127. doi: 10.1186/1471-2180-13-127
4. Martins M, Viveiros M, Couto I, **Costa SS**, Pacheco T, Fanning S, Pagès J-M, Amaral L. Identification of efflux pump-mediated multidrug-resistant bacteria by the ethidium bromide-agar cartwheel method. In Vivo. 2011; 25:171-8.
<http://iv.iiarjournals.org/content/25/2/171.long>; Q2; JIF (2017): 1.148; Times cited: 31

2010

3. **Costa SS**, Ntokou E, Martins A, Viveiros M, Pournaras S, Couto I, Amaral L. Identification of the plasmid encoded *qacA* efflux pump gene in the methicillin-resistant *Staphylococcus aureus* (MRSA) strain HPV107, a representative of the MRSA Iberian clone. Int J Antimicrob Agents. 2010;36:557-61.
doi: 10.1016/j.ijantimicag.2010.08.006; Q1; JIF (2017): 4.296; Times cited: 17

2009

2. Spengler G, Martins A, Schelz Z, Rodrigues L, Aagaard L, Martins M, **Costa SS**, Couto I, Viveiros M, Kristiansen JE, Fanning S, Molnar J, Amaral L. Characterization of intrinsic efflux activity of *Enterococcus faecalis* ATCC29212 by a semi-automated ethidium bromide method. In Vivo. 2009;23:81-7.
<http://iv.iiarjournals.org/content/23/1/81.long>; Q2; JIF (2017): 1.148; Times cited: 12

2008

1. Couto I, **Costa SS**, Viveiros M, Martins M, Amaral L. Efflux-mediated response of *Staphylococcus aureus* exposed to ethidium bromide. J Antimicrob Chemother. 2008;62:504-13.
doi: 10.1093/jac/dkn217; Q1; JIF (2017): 5.313; Times cited: 77

Publications in National scientific journals (3)

Costa SS, Couto I. The "Second GHTM Antimicrobial Resistance Awareness Day". An Inst Hig Med Trop. 2018;17:83-86. ISSN:0303-7762

Costa SS, Couto I. The "First GHTM Antimicrobial Resistance Awareness Day". An Inst Hig Med Trop. 2017;16:61-63. ISSN:0303-7762

COMMUNICATIONS IN SCIENTIFIC MEETINGS

Oral communications (11)

11. **Costa SS**, Rosa M, Rodrigues AC, Holtreman F, Viveiros M, Pomba C, Couto I. Emergence of non-wild-type populations towards biocides and antibiotic resistance in *Staphylococcus epidermidis* colonizing veterinary staff and students. ePoster Mini-Oral Session at the 28th ECCMID, 21-24 April 2018. Madrid, Spain.
10. **Costa SS**, Rosa M, Rodrigues AC, Holtreman F, Viveiros M, Pomba C, Couto I. Antibiotic and biocide resistance in *Staphylococcus epidermidis* colonizing humans in close contact with animals. First GHTM Antimicrobial Resistance Awareness Day. 15 November 2017. Lisbon, Portugal.
9. **Couto I**, **Costa SS**, Machado D, Viveiros M. Microbial multiresistance in the era of global challenges – an urgent need for new approaches and technologies. Ciência 2017. 5 July 2017, Lisbon, Portugal.
8. **Rodrigues AC**, **Costa SS**, Belas A, Marques C, Couto I, Pomba C. Emergent public health risk of antimicrobial resistance transfer from companion animals: Methicillin-resistant *Staphylococcus epidermidis* and *Staphylococcus haemolyticus*. 2nd International Caparica Conference in Antimicrobial Resistance (IC2AR). 12-15 June 2017, Caparica, Portugal.
7. **Machado D**, Azzali E, **Costa SS**, Costantino G, Couto I, Pieroni M, Viveiros M. Antimycobacterial and efflux inhibitory activity of 2-aminothiazole lead compound against *Mycobacterium tuberculosis*. 26th ECCMID. 9 - 12 April 2016, Amsterdam, The Netherlands.
6. **Lopes E**, **Costa SS**, Machado D, Pieroni M, Azzali E, Costantino G, Viveiros M, Couto I. *Mycobacterium smegmatis* model for the rapid screening of new compounds with efflux inhibitory and antimycobacterial activity. MicroBiotec15. 11 December 2015, Évora, Portugal.
5. **Costa SS**, Junqueira E, Palma C, Viveiros M, Melo-Cristino J, Amaral L, Couto I. Clinical relevance of efflux systems to antimicrobial resistance in *Staphylococcus aureus*. 2nd National Congress of Tropical Medicine. 20 - 23 April 2013, Lisbon, Portugal.
4. **Costa SS**. Clinical relevance of efflux systems to antimicrobial resistance in *Staphylococcus aureus*. 2nd Scientific Meeting of the Instituto de Higiene e Medicina Tropical. 12 December 2011, Lisbon, Portugal.
3. **Costa SS**. Exploring the contribution of efflux on the resistance to fluoroquinolones in clinical isolates of *Staphylococcus aureus*. Management committee meeting and working groups meeting of the COST ACTION BM0701 – Antibiotic transport and efflux: new strategies to combat bacterial resistance. 6 December 2011, Brussels, Belgium.
2. **Costa SS**, Falcão C, Viveiros M, Machado D, Martins M, Melo-Cristino J, Amaral L, Couto I. Importance of efflux systems on the resistance to fluoroquinolones in *Staphylococcus aureus*. Management committee meeting and working groups meeting of the COST ACTION BM0701 – Antibiotic transport and efflux: new strategies to combat bacterial resistance. 7 July 2010, Bremen, Germany.
1. **Costa SS**. Phenotypic and genotypic characterization of a *Staphylococcus aureus* strain adapted to ethidium bromide. Journal Club CMDT-LA, IHMT. 17 July 2008, Lisbon, Portugal.

Posters (67): International meetings (33); National meetings (34)

67. **Costa SS**, Ribeiro R, Oliveira V, Serrano M, Ferreira C, Morais C, Pomba C, Couto I. Antibiotic and biocide resistance among staphylococci causing SSTIs in companion animals in Portugal. Abstract 2556 – Abstract book of 30th European Congress on Clinical Microbiology and Infectious Diseases (ECCMID, canceled). 18 – 21 April 2020, Paris, France.
66. **Morais C, Costa SS**, Abrantes P, Pomba C, Couto I. Antibiotic resistance in *Staphylococcus pseudintermedius* associated with skin and soft tissue infections in dogs and cats. Abstract 6736 – Abstract book of 30th European Congress on Clinical Microbiology and Infectious Diseases (ECCMID, canceled). 18 – 21 April 2020, Paris, France.
65. **Costa SS**, Abrantes P, Morais C, Viveiros M, Rosato AE, Couto I. Exploring the staphylococcal efflux-mediated response to ethidium bromide, an efflux pump substrate. P154. MicroBiotec19, 5-7 December 2019, Coimbra, Portugal.
64. **Morais C, Costa SS**, Pomba C, Couto I. Antibiotic resistance in *Staphylococcus pseudintermedius* causing skin and soft-tissue infections in companion animals. P237. MicroBiotec19, 5-7 December 2019, Coimbra, Portugal.
63. **Malheiro JF, Costa SS**, Borges F, Couto I, Maillard J-Y, Simões M. Cinnamaldehyde modulates efflux of antimicrobial resistant *Staphylococcus aureus*. P265. MicroBiotec19, 5-7 December 2019, Coimbra, Portugal.
62. **Ferreira C, Costa SS**, Pomba C, Couto I. Resistance to biocides and antibiotics in *Staphylococcus aureus* associated with SSTIs in ambulatory patients. P234. MicroBiotec19, 5-7 December 2019, Coimbra, Portugal.
61. **Oliveira V, Costa SS**, Pomba C, Couto I. Susceptibility to antibiotic and biocides in *Staphylococcus schleiferi* associated with canine SSTIs. P286. MicroBiotec19, 5-7 December 2019, Coimbra, Portugal.
60. **Ribeiro R, Costa SS**, Pomba C, Couto I. Biocide and antibiotic resistance in *Staphylococcus aureus* causing skin and soft tissue infections in companion animals. P290. MicroBiotec19, 5-7 December 2019, Coimbra, Portugal.
59. **Serrano M, Costa SS**, Pomba C, Couto I. Staphylococcal clonal lineages associated with skin and soft tissue infections in humans and pets. P153. MicroBiotec19, 5-7 December 2019, Coimbra, Portugal.
58. **Morais C, Costa SS**, Pomba C, Couto I. Antibiotic resistance in *Staphylococcus pseudintermedius* causing skin and soft-tissue infections in pets. 1st International Conference of the European College of Veterinary Microbiology, 26-27 September 2019, Athens, Greece.
57. **Malheiro JF, Costa SS**, Couto I, Borges F, Maillard J-Y, Simões M. Phytochemical derivatives as *Staphylococcus aureus* efflux pump modulators. 3rd International Caparica Conference in Antibiotic Resistance, 10 – 13 June 2019, Caparica, Portugal.
56. **Costa SS**, Abrantes P, Morais C, Viveiros M, Rosato AE, Couto I. Exploring the staphylococcal efflux-mediated response to ethidium bromide, an efflux pump substrate. Gordon Conference “Multi-Drug Efflux Systems”, 28 April – 3 May 2019, Lucca (Barga), Italy.
55. **Morais C, Costa SS**, Pomba C, Couto I. Antibiotic resistance in *Staphylococcus pseudintermedius* causing skin and soft-tissue infections in pets. IV Genetics Workshop. 21 March 2019, Rectory of Universidade NOVA de Lisboa, Lisbon, Portugal.
54. **Garrine M, Costa SS**, Mandomando I, Couto I. Caracterização molecular de *Staphylococcus aureus* isolados em hemoculturas de crianças no distrito de Manhica, Moçambique, 2001 – 2016. 9^{as} Jornadas Científicas do IHMT, 12 December 2018, Lisbon, Portugal.
53. **Morais C, Costa SS**, Pomba C, Couto I. Resistência antimicrobiana em estafilococos causadores de infeções de pele e tecidos moles. 9^{as} Jornadas Científicas do IHMT, 12 December 2018, Lisbon, Portugal.

52. **Costa SS**, Rosato A, Viveiros M, Couto I. Development of multidrug resistance in staphylococci driven by efflux. 18th International Symposium of Staphylococci and Staphylococcal Infections (ISSSI), P282. 23-26 August 2018, Copenhagen, Denmark.
51. **Costa SS**, Rosa M, Belas A, Viveiros M, Pomba MC, Couto I. Biocide susceptibility in *Staphylococcus epidermidis* causing infection in pets. 18th ISSSI, P280. 23-26 August 2018, Copenhagen, Denmark.
50. **Costa SS**, Rosa M, Holtreman F, Rodrigues AC, Viveiros M, Pomba MC, Couto I. Emergence of non-wild-type populations towards biocides in *Staphylococcus epidermidis* colonizing veterinary staff. 18th ISSSI, P269. 23-26 August 2018, Copenhagen, Denmark.
49. **Costa SS**, Santos CM, Viveiros M, Pomba MC, Couto I. Frequent biofilm production by *Staphylococcus epidermidis* causing infection in pets or colonizing veterinary staff. 18th ISSSI, P270. 23-26 August 2018, Copenhagen, Denmark.
48. **Costa SS**, Kadlec K, Viveiros M, Melo-Cristino J, Schwarz S, Couto I. Complete sequences of two *Staphylococcus aureus* plasmids carrying genes for resistance to antibiotics, heavy-metals, biocides and/or virulence. 18th ISSSI, P292. 23-26 August 2018, Copenhagen, Denmark.
47. **Costa SS**, Lopes E, Pieroni M, Machado D, Costantino G, Viveiros M, Couto I. *Mycobacterium smegmatis* model for the rapid screening of new compounds with efflux inhibitory activity and antimycobacterial activity. 1st Symposium of Tuberculosis and Non-tuberculous mycobacteria. 18 June 2018, Coimbra, Portugal.
46. Francisco M, **Costa SS**, Belas A, Ramos J, Couto I, Pomba C, Viveiros M. Antimicrobial resistance and molecular characterization of *Salmonella enterica* serotype Typhi isolated in Luanda, Angola, in human specimens during 2013-2014. 8^{as} Jornadas Científicas do IHMT, 12 December 2017, Lisbon, Portugal.
45. **Costa SS**, Rosa M, Rodrigues AC, Santos CM, Holtreman F, Viveiros M, Pomba C, Couto I. Characterization of antimicrobial resistance in *Staphylococcus epidermidis* colonizing veterinary staff and students. P-272. MicroBiotec17, 7-9 December 2017, Porto, Portugal.
44. Holtreman E, **Costa SS**, Rosa M, Viveiros M, Pomba C, Couto I. Characterization of plasmid encoded efflux determinants from *Staphylococcus epidermidis*. P-273. MicroBiotec17, 7-9 December 2017, Porto, Portugal.
43. Santos CM, **Costa SS**, Viveiros M, Pomba C, Couto I. Prevalence of biofilm production in *Staphylococcus epidermidis* colonizing veterinary staff and students. P-274. MicroBiotec17, 7-9 December 2017, Porto, Portugal.
42. Francisco M, **Costa SS**, Belas A, Ramos J, Couto I, Pomba C, Viveiros M. Antimicrobial resistance and molecular characterization of *Salmonella enterica* serotype Typhi isolated in Luanda, Angola, in human specimens during 2013-2014. Ciência 2017. 3-5 July 2017, Lisbon, Portugal.
41. **Costa SS**, Viveiros M, Pomba C, Couto I. NorA mediated efflux in *Staphylococcus epidermidis*. 4th National Congress of Tropical Medicine (CNMT), 19-21 April, 2017, Lisbon, Portugal.
40. Rosa M, **Costa SS**, Viveiros M, Pomba C, Couto I. Contribuição do efluxo para a resistência a compostos antimicrobianos em *Staphylococcus epidermidis*. 4th National Congress of Tropical Medicine (CNMT), 19-21 April, 2017, Lisbon, Portugal.
39. Holtreman E, **Costa SS**, Rosa M, Viveiros M, Pomba C, Couto I. Influência do efluxo na resistência a antibióticos e suscetibilidade reduzida aos biocidas em *Staphylococcus epidermidis*. 4th National Congress of Tropical Medicine (CNMT), 19-21 April, 2017, Lisbon, Portugal.
38. Santos CM, **Costa SS**, Viveiros M, Pomba C, Couto I. Correlação da produção de biofilme com a actividade de efluxo e resistência a antimicrobianos em *Staphylococcus epidermidis*. 4th National Congress of Tropical Medicine (CNMT), 19-21 April, 2017, Lisbon, Portugal.

37. Mattos KPH, **Costa SS**, Couto I, Levy CE, Marques CF, Moriel P, Pomba C, Viveiros M. Epidemiologia molecular e caracterização genética de estirpes de *Klebsiella pneumoniae* multirresistentes provenientes de um Hospital Universitário no Brasil. 4th National Congress of Tropical Medicine (CNMT), 19-21 April 2017, Lisbon, Portugal.
36. **Costa SS**, Viveiros M, Pomba C, Couto I. The role of efflux systems on antimicrobial resistance development in *Staphylococcus epidermidis*. Gordon Conference “Multi-Drug Efflux Systems”, 26-31 March 2017, Galveston, Texas, USA.
35. Felicetti T, R Cannalire, G Manfroni, O Tabarrini, D Machado, I Couto, **SS Costa**, M Viveiros, S Sabatini, V Cecchetti. 2016. Natural isoflavone biochanin-A as a template for the design of new and potent 3-phenylquinolone inhibitors of the nontuberculous mycobacteria efflux pumps. XXIV National Meeting in Medicinal Chemistry and 10th Young Medicinal Chemists’ Symposium. Perugia, Italy. 11-14 September 2016
34. **Costa SS**, Belas A, Couto N, Rodrigues C, Viveiros M, Pomba C, Couto I. Biocide susceptibility profiles of staphylococci colonizing humans in close contact with pets: correlation with efflux activity. PS4:253. MicroBiotec15, 10 - 12 December 2015, Évora, Portugal.
33. Azzali E, M Pieroni, D Machado, **SS Costa**, I Couto, M Viveiros, G Costantino. Rational design and synthesis of thioridazine analogues as enhancers of the antituberculosis therapy. SIMCC2015 - Spanish-Italian Medicinal Chemistry Congress. Barcelona, Spain, 12-15 July 2015.
32. Cabral V, Luo X, Junqueira E, **Costa S**, Mulhovo S, Duarte A, Couto I, Viveiros M, Ferreira MJU. *Zanthoxylum capense* constituents and derivatives: Effects on the activity of antibiotics against *Staphylococcus aureus* strains. 62nd International Congress and Annual Meeting of the Society of Medicinal Plant and Natural Product Research. 31 August – 4 September 2014, Guimarães, Portugal.
31. **Costa SS**, Viveiros M, Melo-Cristino J, Couto I. The role of efflux in the development of multidrug resistance phenotypes in *Staphylococcus aureus*. P56. 16th ISSSI. 26 - 29 August 2014, Chicago, USA.
30. **Costa SS**, Viveiros M, Melo-Cristino J, Couto I. Impact of active efflux in the development of MDR phenotypes in *Staphylococcus aureus*. P1559. 24th ECCMID. 10 - 13 May 2014, Barcelona, Spain.
29. Branquinho R, Moço S, **Costa SS**, Couto I, Viveiros M, Martins R, Fortunato E. Low cost paper-based materials functionalized with nanoparticles for antibacterial applications. Nanoscience and Nanotechnology International Conference. 12-14 February 2014, Porto, Portugal.
28. **Costa SS**, Viveiros M, Melo-Cristino J, Couto I. Characterization of a multiresistance plasmid from a methicillin-resistant *Staphylococcus aureus* clinical strain. PS4:253. MicroBiotec13, 6 - 8 December 2013, Aveiro, Portugal.
27. **Costa SS**, Viveiros M, Melo-Cristino J, Couto I. Efflux as a first-line response to fluoroquinolones and other antimicrobials in *Staphylococcus aureus*. PS4:257. MicroBiotec13, 6 - 8 December 2013, Aveiro, Portugal.
26. Palma C, **Costa SS**, Viveiros M, Melo-Cristino J, Couto I. The role of plasmid determinants in the resistance of *Staphylococcus aureus* to antimicrobial agents. PS4:271. MicroBiotec13, 6 - 8 December 2013, Aveiro, Portugal.
25. **Costa SS**, Viveiros M, Couto I. Relevância clínica de sistemas de efluxo na resistência a compostos antimicrobianos em *Staphylococcus aureus*. Jornadas Científicas do IHMT. 12 December 2012, Lisbon, Portugal.
24. **Costa SS**, Viveiros M, Amaral L, Melo-Cristino J, Couto I. Efflux-mediated resistance to quaternary ammonium compounds in methicillin resistant *Staphylococcus aureus* (MRSA) clinical isolates. P 14-227. Pp.112. 15th ISSSI. 26 - 30 August 2012, Lyon, France.
23. **Costa SS**, Viveiros M, Amaral L, Butaye P, Couto I. Susceptibility profiles of antibiotics, biocides and dyes in *Staphylococcus aureus* from pigs: correlation with efflux activity. P12-173. Pp.97. 15th ISSSI. 26 - 30 August 2012, Lyon, France.

22. Mourato C, **Costa SS**, Viveiros M, Amaral L, Melo-Cristino J, Couto I. Co-resistance to biocides and beta-lactams in a MRSA clinical isolate. P14-230. Pp.113. 15th ISSSI. 26 - 30 August 2012, Lyon, France.
21. Couto N, Belas A, Feßler AT, **Costa SS**, Tilley P, Couto I, Kadlec K, Schwarz S, Pomba C. Antimicrobial resistance among equine methicillin-resistant staphylococci. P12-163. pp.94. 15th ISSSI. 26 - 30 August 2012, Lyon, France.
20. Couto N, Belas A, Feßler AT, **Costa SS**, Tilley P, Couto I, Kadlec K, Schwarz S, Pomba C. Minimum bactericidal concentrations of four biocides and the presence of *qac* genes. P14-232. pp.113. 15th ISSSI. 26 - 30 August 2012, Lyon, France.
19. Couto N, Belas A, Feßler AT, **Costa SS**, Tilley P, Couto I, Kadlec K, Schwarz S, Pomba C. Loss of the *mecA* gene during storage of a methicillin-resistant *Staphylococcus cohnii* subsp. *cohnii* strain. P14-233. pp.114. 15th ISSSI. 26 - 30 August 2012, Lyon, France.
18. Couto N, Belas A, **Costa SS**, Couto I, Pomba C. Comparative analysis of antimicrobial biocide susceptibility data of methicillin-resistant e -susceptible *S. pseudintermedius*. P15-273. pp.125. 15th ISSSI. 26 - 30 August 2012, Lyon, France.
17. **Costa SS**, Viveiros M, Amaral L, Couto I. The role of NorA in the adaptative response of *Staphylococcus aureus* to stress stimuli. P1280. 22nd ECCMID. 31 March - 3 April 2012, London, United Kingdom.
16. **Costa SS**, Mourato C, Viveiros M, Melo-Cristino J, Amaral L, Couto I. Resistance to biocides conveyed by efflux pumps in clinical isolates of MRSA. P1281. 22nd ECCMID. 31 March - 3 April 2012, London, United Kingdom.
15. Spengler G, Rodrigues L, Martins M, McCusker M, **Costa SS**, Ntokou E, Szabo AM, Horváth A, Varga ZG, Fanning S, Molnár J, Amaral L. Stress response and resistance of *Salmonella enterica* serotype Enteritidis to the efflux pump inhibitor neuroleptic drug thioridazine. P1224. 22nd ECCMID. 31 March - 3 April 2012, London, United Kingdom.
14. **Costa SS**, Mourato C, Viveiros M, Melo Cristino J, Amaral L, Couto I. Description of a novel staphylococcal pC194-family plasmid carrying the *smr* efflux pump gene, PS6:75, pp.264. MicroBiotec11. 1 - 3 December 2011, Braga, Portugal.
13. **Costa SS**, Viveiros M, Amaral L, Couto I. The role of NorA in the adaptative response of *Staphylococcus aureus* to stress stimuli. PS6:71, pp. 262. MicroBiotec11. 1 - 3 December 2011, Braga, Portugal.
12. Mourato C, **Costa SS**, Viveiros M, Falcão C, Melo-Cristino J, Amaral L, Couto I. Multidrug resistance in a methicillin-resistant *Staphylococcus aureus* (MRSA) clinical isolate mediated by efflux pump QacA, PS6:62, pp. 258. MicroBiotec11. 1 - 3 December 2011, Braga, Portugal.
11. Pinto A, Machado D, **Costa SS**, Couto I, Amaral L, Viveiros M. Multidrug resistance mediated by active efflux in *Escherichia coli*: new therapeutic strategies using antibiotics and inhibitors of active efflux, PS6:8, pp.232. MicroBiotec11. 1 - 3 December 2011, Braga, Portugal.
10. **Costa SS**, Mourato C, Viveiros M, Melo-Cristino J, Amaral L, Couto I. Description of a novel pC194-family plasmid carrying the *smr* efflux pump gene, P C1-617. 51st ICAAC. 17 - 20 September 2011, Chicago, USA.
9. **Costa SS**, Falcão C, Viveiros M, Machado D, Martins M, Melo-Cristino J, Amaral L, Couto I. Importance of efflux systems on the resistance to fluoroquinolones by *Staphylococcus aureus*. Poster presentation at the 462nd WE Heraeus Seminar "Transport across membranes: multiple drug resistance, mechanisms and new tools". 4 - 10 July 2010, Jacobs University Bremen, Bremen, Germany.
8. **Costa SS**, Viveiros M, Falcão C, Melo-Cristino J, Amaral L, Couto I. Genetic diversity of the *Staphylococcus aureus* efflux pump gene *norA*. Poster presentation at the 462nd WE Heraeus Seminar "Transport across membranes:

multiple drug resistance, mechanisms and new tools". 4 - 10 July 2010, Jacobs University Bremen, Bremen, Germany.

7. **Costa SS**, Falcão C, Viveiros M, Melo-Cristino J, Amaral L, Couto I. Importance of efflux systems on the resistance to fluoroquinolones in *Staphylococcus aureus*. P955. 20th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID). 10 - 13 April 2010, Vienna, Austria.
6. **Saraiva RG**, **Costa SS**, Couto I, Viveiros M, Feio MJ, Gameiro P. The role of enrofloxacin-based-metallocomplexes in the war against bacterial resistance. F24. International Conference on Antimicrobial Resistance (ICAR2010), 3 - 5 November 2010, Valladolid, Spain.
5. **Costa SS**, Viveiros M, Falcão C, Melo-Cristino J, Amaral L, Couto I. Genetic diversity of the *Staphylococcus aureus* efflux pump gene *norA*. S3-P271. Micro09. 28 - 30 November 2009, Vilamoura, Portugal.
4. **Falcão C**, **Costa SS**, Viveiros M, Machado D, Martins M, Melo-Cristino J, Amaral L, Couto I. Importance of efflux systems on the resistance to fluoroquinolones by *Staphylococcus aureus*. S3-P270. Micro09. 28 - 30 November 2009, Vilamoura, Portugal.
3. **Martins M**, Viveiros M, Couto I, **Costa SS**, Pacheco T, Amaral L. New method for the rapid screening of efflux pump activity in multi-drug resistant clinical strains. S3-P274. Micro09. 28 - 30 November 2009, Vilamoura, Portugal.
2. **Couto I**, **Costa SS**, Viveiros M, Martins M, Amaral L. Efflux-mediated response of *Staphylococcus aureus* exposed to ethidium bromide. P2044. 18th ECCMID. 19 - 22 April 2008, Barcelona, Spain.
1. **Costa SS**, Couto I, Viveiros M, Martins M, Leandro C, Amaral L. Characterization of reduced susceptibility to biocides, dyes, and quinolones in a *Staphylococcus aureus* strain exposed to ethidium bromide. S7-P38. Micro07. 30 November - 2 December 2007, Lisbon, Portugal.

PEER-REVIEW PANELS

Publons ID: publons.com/a/1394401/

2020 (3): Vet Microbiol (1); Comp Immunol Microbiol Infect Dis (1); Access Microbiol (1)

2019 (5): Microbial Drug Resistance (1); J Med Microbiology (1); J Appl Microbiol (1); Vet Microbiol (1); Front Microbiol (1)

2018 (7): Journal of Antimicrobial Chemotherapy (2); Plos One (2); Folia Horticulturae (1); J Med Microbiology (1); Microbial Drug Resistance (1)

2017 (3): Veterinary Quarterly (1); Journal of Medical Microbiology (1); Plos One (1)

2016 (4): Journal of Ethnopharmacology (1); BMC Microbiology (1); Phytochemistry Reviews (1); The Journal of Biological Regulators & Homeostasis Agents (1)

EXPERIENCE AS SCIENTIFIC ADVISER

PhD students - as co-supervisor (1 ongoing)

Catarina Morais. PhD Thesis in Biomedical Sciences, specialization Microbiology (IHMT-NOVA).

Antimicrobial resistance in staphylococci causing skin and soft tissue infections.

Since October 2018. Supervisor: Isabel Couto; Co-supervisor: Constança Pomba

MSc students - as supervisor (2 concluded)

Maria de Fátima Serrano. MSc Thesis in Biomedical Sciences (IHMT-NOVA).

Molecular characterization of staphylococci associated with skin and soft tissue infections.
Co-supervisor: Isabel Couto. Concluded in February 2020.

Valéria Oliveira. MSc Thesis in Medical Microbiology (NOVA).

Resistance to biocides and topical antibiotics in staphylococci causing infections in pets.
Co-supervisor: Isabel Couto. Concluded in December 2019.

MSc students - as co-supervisor (3 ongoing, 4 concluded)

Bárbara Ramos. MSc Thesis in Biomedical Sciences (IHMT-NOVA).

Antimicrobial resistance in *Staphylococcus pseudintermedius* causing skin and soft tissue infections in pets.

Ongoing. Supervisor: Isabel Couto

Rute Ribeiro. MSc Thesis in Biomedical Sciences (IHMT-NOVA).

Antimicrobial resistance in staphylococci causing infections in pets.
Concluded in January 2020. Supervisor: Isabel Couto

Carolina Ferreira. MSc Thesis in Medical Microbiology (NOVA).

Resistance to biocides and topical antibiotics in *Staphylococcus aureus* of human origin. Concluded in April 2018. Supervisor: Isabel Couto

Ana Cláudia Mineiro Santos. MSc Thesis in Medical Microbiology (NOVA).

Influence of efflux activity in biofilm production by *Staphylococcus epidermidis*. Concluded in April 2018.
Supervisor: Isabel Couto; Co-supervisor: Constança Pomba

Frederico Duarte Holtreman. MSc Thesis in Biomedical Sciences (IHMT-NOVA).

Influence of efflux in antibiotic resistance and reduced susceptibility to biocides in staphylococci.
Concluded in March 2018. Supervisor: Isabel Couto; Co-supervisor: Constança Pomba

Mafalda Sofia Reinho de Oliveira Rosa. MSc Thesis in Biomedical Sciences (IHMT-NOVA).

Contribution of efflux to antimicrobial resistance in staphylococci.
Concluded in March 2017. Supervisor: Isabel Couto

Elizeth do Rosário Lopes. MSc Thesis in Medical Microbiology (NOVA).

Development of new methodological strategies to evaluate new compounds for their therapeutical potential against tuberculosis and other mycobacterioses.

Concluded in January 2016. Supervisor: Isabel Couto

ERASMUS students - as co-supervisor

Diana Castañeda Fajardo. ERASMUS Exchange program (20 ECTS) - Jagiellonian University, Krakow, Poland.

Evaluation of efflux pump activity in bacteria.
February – June 2014. Supervisor: Isabel Couto

Laboratorial supervision (MSc Students)

Cláudia Alexandra Tormenta Palma. MSc Thesis in Medical Microbiology (NOVA).
Role of plasmid encoded determinants in antimicrobial resistance of *Staphylococcus aureus*.
Concluded in December 2013. Supervisor: Isabel Couto

Cláudia Alinho Mourato. MSc Thesis in Medical Microbiology (NOVA).
The contribution of efflux pumps QacA and Smr in multiresistance of *Staphylococcus aureus*.
Concluded in January 2012. Supervisor: Isabel Couto

Laboratorial supervision (other students/scientific visitors)

Malheiro J. PhD student, Faculdade de Engenharia, Universidade do Porto. (11 – 29 March 2019)
Phytochemical derivatives as *Staphylococcus aureus* efflux pump modulators.
Supervisor: Isabel Couto

Tatiana Tozar. Researcher, National Institute for Laser, Plasma and Radiation Physics, Romania (15 – 26 October 2018)
Antimicrobial activity of irradiated solutions of antibiotics and non-antibiotics
Supervisor: Isabel Couto

Moisés Francisco. PhD student, IHMT-NOVA. (2015 – 2018)
Antimicrobial resistance and molecular characterization of *Salmonella enterica* spp. isolated from human specimens, food and environmental samples in Luanda, Angola, during 2013-2014.
Supervisor: Miguel Viveiros; co-supervisor: Constança Pomba.

Karen Prado Herzer Mattos. PhD student, Universidade Estadual de Campinas (UNICAMP), Brazil. FELLOW-MUNDUS Scholarship (November 2016 – July 2017).
Molecular epidemiology and genetic characterization of *Klebsiella pneumoniae* isolates from inpatients at the Hospital de Clínicas, UNICAMP.
Scholarship supervisor: Miguel Viveiros

Monia Khemiri. PhD student, Tunisia (2015)
Antimicrobial resistance and molecular characterization of staphylococci collected from inpatients at a Libyan Hospital and from ruminants and milk samples.
Visiting student at Faculty of Veterinary Medicine, University of Lisbon. Exchange supervisor: Constança Pomba (FMV, UL).

Rolando Cannalire. PhD student, Università degli Studi di Perugia, Italy (May 2013)
Evaluation of semi-synthetic compounds as efflux inhibitors of MDR efflux systems of *Staphylococcus aureus*
Supervisors: Miguel Viveiros, Isabel Couto

Andrea von Groll. Professor, Faculdade de Medicina, Universidade Federal do Rio Grande, Brasil (June 2012)
Evaluation of tetrahydropyridines as efflux inhibitors of MDR efflux systems of *Escherichia coli*.
Supervisors: Miguel Viveiros, Isabel Couto

Eleni Ntokou. PhD student, University of Thessaly, Greece (June 2009)
(COST ACTION BM0701 – Antibiotic transport and efflux: new strategies to combat bacterial resistance)
Supervisor: Leonard Amaral

TEACHING EXPERIENCE

Collaboration in laboratory and/or theoretical classes:

2018/2019. Module “Gram-negative and Gram-positive Bacteria”. Advanced Training Program for Laboratory Technicians. Mozambique Health Ministry/IHMT.

2018. Curricular Unit (UC) “Applications in Medical Microbiology”. PhD Program in Biomedical Sciences, IHMT-NOVA.

Since 2016. UC “Prevention and therapeutics of infectious diseases”. MSc in Medical Microbiology, NOVA. (every 2 years).

June 2014. UC “Molecular toxicology and membrane transport”. PhD Program in Human Genetics and Infectious Diseases, IHMT-NOVA.

Since 2014. UC “Molecular Diagnostic in Bacteriology and Mycology”, MSc in Medical Microbiology, NOVA. (every 2 years)

Since 2013. UC “Mechanisms of resistance to antibiotics”, MSc in Biomedical Sciences, IHMT-NOVA. (annual)

Since 2008. UC “Mechanisms of resistance to antibiotics”, MSc in Medical Microbiology, NOVA. (every 2 years)

PRIZES AND AWARDS

Excellence Award Garcia de Orta (2013) - Best student of 2013 of the Instituto de Higiene e Medicina Tropical, Universidade NOVA de Lisboa.

Award Professor Doutor Manuel Pinto (2013) - Best PhD student in Biomedical Sciences, specialization Microbiology of 2013 of the Instituto de Higiene e Medicina Tropical, Universidade NOVA de Lisboa.

ESCMID grant (free registration). 22nd ECCMID), London, United Kingdom, European Society of Clinical Microbiology and Infectious Diseases (ESCMID).

OTHER ACTIVITIES

Organizing Committees

Co-Organizer of the Annual Event “GHTM Antimicrobial Resistance Awareness Day” at IHMT. [1st edition: 15 November 2017; 2nd edition: 13 November 2018; 3rd edition: 21 November 2019].

GHTM sessions at IHMT-NOVA, since April 2016.

Scientific visit of Dr. Charles Mgone (WHO) to IHMT, 11 December 2017.

“Open Day at IHMT”, 8-9 April, 2016.

Journal Club of the PhD students in Biomedical Sciences (2011/2012).

1st Chemistry Forum, held at the Faculdade de Ciências e Tecnologia, NOVA. 16 - 17 October 2003.

Scientific Committees

Scientific Committee of the “VI Jornadas do IHMT”, at IHMT-NOVA, 11 December, 2015.

Representative of the PhD students in Biomedical Sciences at the Pedagogic Council of IHMT-NOVA. (April 2010 – December 2012).

Participation in Science Outreach Events

Science demonstration stand "Antimicrobial resistance: the role of biocides and the new weapon to the fight against superbugs" at the European Researcher's Night, 27th September 2019

Science demonstration stand "Did you know that antimicrobial resistance is not just about antibiotics and that old drugs can be repurposed to fight resistant bacteria?" at the International Day of the Microorganism, 17th September 2019

Science Fair at Escola EB Joaquim de Barros, Oeiras, 3 January 2019

PROFESSIONAL MEMBERSHIPS

Portuguese Society of Microbiology (SPM, no. 285).

European Society of Clinical Microbiology and Infectious Diseases (ESCMID, no. 51307).

American Society for Microbiology (ASM, no. 56835119).

Lisbon, 22 May 2020