

Marta Leal



Personal information

Name: Marta Sofia Pires Leal

Birthday: 30-03-1998

Science ID: 9C16-55D6-68A3

ORCID ID: 0000-0002-6137-6648

Education

- | | |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2024/01- 2024/04 | Study of bacterial genomes: from infection control to research for new molecules
<i>Faculdade de Farmácia, Universidade do Porto, Portugal</i> |
| 2023- Present | PhD in Biomedical Sciences - Specialization in Microbiology
<i>Instituto de Higiene e Medicina Tropical, Universidade NOVA de Lisboa, Portugal</i>

<u>Financial support:</u> FCT doctoral Grant (2023.02437.BD) |
| 2022 | Master in Biomedical Sciences
<i>Instituto de Higiene e Medicina Tropical, Universidade NOVA de Lisboa, Portugal</i> |
| 2019 | Licentiate in Biochemistry
<i>Faculdade de Ciências e Tecnologia, Universidade NOVA de Lisboa</i> |

Internships

- | | |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2020/07 - 2020/08 | "Analysis of <i>Staphylococcus aureus</i> strains with reduced susceptibility to bacitracin"
<i>Instituto de Higiene e Medicina Tropical, Universidade NOVA de Lisboa, Portugal</i> |
| 2018/07 - 2018/07 | "Characterization of <i>Streptococcus</i> strains by PFGE"
<i>Faculdade de Ciências e Tecnologia, Universidade NOVA de Lisboa, Portugal</i> |

I&D Projects

- 2023/01 - **DREBI - Exploring efflux inhibition to counteract antimicrobial resistance and**
2024/06 **biofilms in staphylococci**
Ref: 2022.07931.PTDC
Instituto de Higiene e Medicina Tropical, Universidade NOVA de Lisboa,
Portugal
PhD student
Fundação para a Ciência e a Tecnologia
- 2020/09/01 - **BIOSAFE – Preventing antimicrobial resistance in the communit – the safe**
2022/09 **use of biocides**
Ref: LISBOA-01-0145-FEDER-030713
Instituto de Higiene e Medicina Tropical, Universidade NOVA de Lisboa,
Portugal
Master's student
Fundação para a Ciência e a Tecnologia

Publications

Articles

1. **Leal, Marta**; Morais, Catarina; Ramos, Bárbara; Pomba, Constança; Abrantes, Patrícia; Santos Costa, Sofia; Couto, Isabel. "O impacto do efluxo na suscetibilidade reduzida a biocidas e resistência a fluoroquinolonas em *Staphylococcus pseudintermedius*". *Anais do Instituto de Higiene e Medicina Tropical* 22 2 (2024): 87-92. <https://anaisihmt.com/index.php/ihmt/article/view/460>
2. Morais, Catarina; Costa, Sofia Santos; **Leal, Marta**; Ramos, Bárbara; Andrade, Mariana; Ferreira, Carolina; Abrantes, Patrícia; Pomba, Constança; Couto, Isabel. Autor correspondente: Couto, Isabel. "Genetic diversity and antimicrobial resistance profiles of *Staphylococcus pseudintermedius* associated with skin and soft-tissue infections in companion animals in Lisbon, Portugal". *Frontiers in Microbiology* 14 (2023): <http://dx.doi.org/10.3389/fmicb.2023.1167834>.
3. **Leal, Marta**; Morais, Catarina; Ramos, Bárbara; Pomba, Constança; Abrantes, Patrícia; Costa, Sofia Santos; Couto, Isabel. "Exploring efflux as a mechanism of reduced susceptibility towards biocides and fluoroquinolones in *Staphylococcus pseudintermedius*". *Animals* (2023): <https://doi.org/10.3390/ani13071270>.
4. Costa, Sofia Santos; Ribeiro, Rute; Serrano, Maria; Oliveira, Ketlyn; Ferreira, Carolina; **Leal, Marta**; Pomba, Constança; Couto, Isabel. "*Staphylococcus aureus* causing skin and

soft tissue infections in companion animals: antimicrobial resistance profiles and clonal lineages". *Antibiotics* 11 (2022): <http://dx.doi.org/10.3390/antibiotics11050599>.

Conference posters

1. Ferreira, Carolina; **Leal, Marta**; Andrade, Mariana; Abrantes, Patrícia; Viveiros, Miguel; Costa, Sofia Santos; Couto, Isabel. "Occurrence of *norA* and other multidrug efflux pump determinants across the *Staphylococcus* genus". 19th Internacional Symposium on Staphylococci and Staphylococcal Infections, 2024, 18th-21st August, Perth
2. **Leal, Marta**; Morais, Catarina; Ramos, Bárbara; Abrantes, Patrícia; Pomba, Constança; Costa, Sofia Santos; Couto, Isabel. "Efflux as a resistance mechanism in the veterinary pathogen *Staphylococcus pseudintermedius*". 6^o National Congress of Tropical Medicine, 2023. 18th-19th April, Lisbon.
3. Morais, Catarina; Costa, Sofia Santos; **Leal, Marta**; Ramos, Bárbara; Andrade, Mariana; Ferreira, Carolina; Abrantes, Patrícia; Pomba, Constança; Couto, Isabel. "High antimicrobial resistance and genetic diversity in *Staphylococcus pseudintermedius* associated with skin and soft-tissue infections in companion animals in Lisbon, Portugal". 6^o National Congress of Tropical Medicine, 2023. 18th - 19th April, Lisbon
4. **Leal, Marta**; Costa, Sofia Santos; Ramos, Bárbara; Morais, Catarina; Ferreira, Carolina; Pomba, Maria Constança; Couto, Isabel. "Efflux and biocide reduced susceptibility in *Staphylococcus pseudintermedius*". Abstract number :03760 32nd European Congress of Clinical Microbiology and Infectious Diseases, 2022. 23rd-26th April, Lisbon.
5. **Leal, Marta**; Costa, Sofia Santos; Ramos, Bárbara; Morais, Catarina; Ferreira, Carolina; Pomba, Maria Constança; Couto, Isabel. "Evaluation of efflux activity in *Staphylococcus pseudintermedius* and its contribution for biocide decreased susceptibility". ID: 52. Congress of Microbiology and Biotechnology 2021, 2021. 23rd-26th November, Webconference.
6. Ramos, Bárbara; Costa, Sofia Santos; **Leal, Marta**; Morais, Catarina; Pomba, Maria Constança; Couto, Isabel. "Fluoroquinolone resistance and associated mechanisms in *Staphylococcus pseudintermedius*". ID: 416. Congress of Microbiology and Biotechnology 2021, 2021. 23rd-26th November, Webconference.

7. Morais, Catarina; Costa, Sofia Santos; Andrade, Mariana; Ramos, Bárbara; **Leal, Marta**; Abrantes, Patrícia; Pomba, Maria Constança; Couto, Isabel. "Molecular characterization of *Staphylococcus pseudintermedius* associated with skin and soft tissue infections in pets, Portugal". ID: 145 Congress of Microbiology and Biotechnology 2021, 2021. 23rd -26th November, Webconference.
8. Morais, Catarina; Costa, Sofia Santos; Andrade, Mariana; Ramos, Bárbara; **Leal, Marta**; Abrantes, Patrícia; Pomba, Maria Constança; Couto, Isabel. "Clonal lineages of *Staphylococcus pseudintermedius* associated with skin and soft tissue infections in pets, Portugal". ID: 3395. 31st European Congress of Clinical Microbiology and Infectious Diseases, 2021. 9th-12th July, Webconference.

Thesis/Dissertation

1. "Evaluation of efflux activity in *Staphylococcus pseudintermedius* and its relation to reduced susceptibility to antimicrobial agents" Master, Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, 2022.
2. "Construction and characterization of fluorescent derivatives of LysM proteins involved in cell wall metabolism in *Staphylococcus aureus*". Licentiate, Universidade Nova de Lisboa, Chemistry Department, 2019.

Activities

2024/07/22- 2024/07/26	Organizing team of 2 nd Summer School on Antimicrobial and Biocide Resistance
	Mentor on DNA extraction on 2 nd Summer School on Antimicrobial and Biocide Resistance <i>Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa, Portugal</i> <i>Freie Universität Berlin, Germany</i>
2024/05/10	DNA extraction Open Day IHMT-NOVA 2024
2023/05/03	DNA extraction Open Day IHMT-NOVA 2023
2022/09/12- 2022/09/15	Summer School on Antimicrobial Resistance

2022/09/17 Organization of didactic/educational material for Microorganism International Day
Dia do Microrganismo

Scientific Society

2024- Present Member of the Portuguese Society of Microbiology
2023- Present Member of I&D Global Health and Tropical Medicine Center

Awards

2023 3 Best Posters in 6^o National Congress of Tropical Medicine
"Efflux as a resistance mechanism in the veterinary pathogen *Staphylococcus pseudintermedius*"
Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa, Portugal

2022 Award Professor Doutor Manuel Pinto- Best Master Student in Biomedical Sciences
Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa, Portugal