

Curriculum vitae

Name	Ana Lopes Tavares
Nationality	Portuguese
Address	GHTM/ IHMT Rua da Junqueira, 100 1349-008 Lisboa Portugal
E-mail	atavares@ihmt.unl.pt

ACADEMIC QUALIFICATIONS

2014

PhD in Biology, Instituto Tecnologia Química e Biológica, Universidade Nova de Lisboa (UNL), Lisboa, Portugal.

2006

Master in Medical Microbiology, Universidade Nova de Lisboa (UNL), Lisboa, Portugal.

2000

Degree in Biology, Universidade de Aveiro (UA), Aveiro, Portugal. (4 years – pre-Bologna).

SCIENTIFIC ACTIVITIES

OCTOBER 2016 – TO PRESENT

Post Doctoral fellow at Global Health and Tropical Medicine, Institute of Hygiene and Tropical Medicine (GHTM-IHMT/UNL), Lisbon, Portugal, integrated in the Project Ref.UID/Multi/04413/2013GHTM with the aim of create a Biobank of human and non-human biological samples.

JANUARY 2014 – AUGUST 2015

Research student at Laboratory of Molecular Genetics at Instituto de Tecnologia Química e Biológica (ITQB/UNL), Oeiras, Portugal, with a fellowship from Fundação para a Ciência e Tecnologia (FCT) (117/BI-BI/2013) integrated in the project: “Tracking the evolution of methicilin resistance in staphylococci: stages in the evolution of the *mecA* determinant and the SCC*mec* structure” (Ref. PTDC/BIA-EVF/117507/2010). Supervisor: Dr. Maria Miragaia.

JANUARY 2009 – DECEMBER 2014

PhD student at Laboratory of Molecular Genetics at Instituto de Tecnologia Química e Biológica (ITQB/UNL), Oeiras, Portugal, with a fellowship from Fundação para a Ciência e Tecnologia (FCT) (SFRH/BD/44220/2008) with the thesis entitled: “Role of genetic diversity on the pathogenesis and evolution of community-associated methicillin-resistant *Staphylococcus aureus* (CA-MRSA)”. Supervisors: Professor Hermínia de Lencastre and Dr. Maria Miragaia.

1/5 JUNE 2011 – 1/5 SEPTEMBER 2011

Research student at MRSA Knowledge Center, Hvidovre Hospital (Copenhagen, Denmark), integrated in the PhD thesis entitled: “Role of genetic diversity on the pathogenesis and evolution of community-associated methicillin-resistant *Staphylococcus aureus* (CA-MRSA)”. Supervisor: Professor Henrik Westh.

FEBRUARY 2007– JUNE 2008

Research student at the Laboratory of Molecular Genetics, Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa (ITQB/UNL), Oeiras, Portugal, with a fellowship from FCT (008/BI/2007) integrated in the Project entitled: “*Staphylococcus aureus* and *Staphylococcus epidermidis*: links between hospital and community” (Ref. POCTI/SAU-ESP/57841/2004). Supervisor: Dr. Maria Miragaia.

AUGUST 2006 – JANUARY 2007

Research student at the Laboratory of Molecular Genetics, Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa (ITQB/UNL), Oeiras, Portugal, with a fellowship from Fundação Calouste Gulbenkian (013/BI/2006) integrated in the Project entitled: “Creation of a reference collection of antimicrobial resistant gram-positive bacteria serving the national and international scientific and clinical communities” (Project no. 61052). Supervisor: Dr. Marta Aires-de-Sousa.

OCTOBER 2004 – JANUARY 2006

Master student at Laboratory of Molecular Genetics of Prokaryotes, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (FCT/UNL), Caparica, Portugal, with the master thesis entitled: “*Staphylococcus* spp. identification by fluorescence *in situ* hybridization (FISH)”. Supervisor: Professor Isabel Couto.

OCTOBER 2002 – AUGUST 2003

Research trainee at Centre for Environmental Biology, Faculdade de Ciências, Universidade de Lisboa (FCUL), Lisboa, Portugal, integrated in the Project entitled: “SAT-TAGIS: Modelling the habitats of primary producers, invertebrates and birds in intertidal flats of the Tagus Estuary using satellite images and GIS” (Ref. PDCTM1999MAR15256). Supervisor: Professor Luis Palmeirim.

OCTOBER 2001– JULY 2002

Research student at Dipartimento di Biologia, Università di Padova, Padova, Italy, with a fellowship from the Italian Ministry for Foreign Affairs integrated in the project entitled: “Female ornamentation and male reproductive strategy in the rock sparrow *Petronia petronia*”. Supervisor: Professor Andrea Pilastro.

FEBRUARY 2002 – APRIL 2002

Visiting research student at Department of Biological and Environmental Science, University of Jyväskylä, Jyväskylä, Finland, with a fellowship from the Italian Ministry for Foreign Affairs integrated in the project entitled “Female ornamentation and male reproductive strategy in the rock sparrow *Petronia petronia*”. Supervisor: Dr. Alessandro Grapputo.

ACADEMIC ACTIVITIES

TEACHING ASSISTANT

1. Teaching assistant of Medical Microbiology Master Course, Module of molecular biology and epidemiology of pathogenic Gram-positive bacteria, Universidade Nova de Lisboa (ITQB/IHMT/FCM/FCT, UNL), Portugal. April 6-May 5, 2008.

SUPERVISION ACTIVITY

1. Co-supervision of a PhD student (Indiara Sales, Brazil) at the Laboratory of Molecular Genetics, Instituto de Tecnologia Química e Biológica, Oeiras Portugal. January 2014-October 2014.
2. Co-supervision of a Master student (Stefano Ravaioli, Italy) at the Laboratory of Molecular Genetics, Instituto de Tecnologia Química e Biológica, Oeiras Portugal. October-December, 2009.

SEMINARS

1. **Ana Tavares.** GHTM Sessions. Biobank Part II. Instituto de Higiene e Medicina Tropical. Lisboa. December 6, 2016.
2. **Ana Tavares.** SCAN Seminar. "Community-associated methicillin-resistant *Staphylococcus aureus* (CA-MRSA) in Portugal: origin, epidemiology and virulence". Instituto de Tecnologia Química e Biológica. Oeiras, Portugal. January 21, 2015.
3. **Ana Tavares.** 3rd ITQB PhD Students' Meeting. "High prevalence of methicillin-resistant *Staphylococcus aureus* (MRSA) of hospital origin in the community in Portugal". Instituto de Tecnologia Química e Biológica. Oeiras, Portugal. October 10, 2012.
4. **Ana Tavares.** Staphylococcal Course. "New insights of *Staphylococcus aureus* population structure in the Portuguese community: high prevalence of the hospital-associated EMRSA-15 clone". MRSA Knowledge Center, Department of Education, Hvidovre Hospital. Hvidovre, Denmark. May 31, 2012.
5. **Ana Tavares.** Research Training Curricular Unit (ITQB PhD Program 2010). "Role of genetic diversity on the pathogenesis and evolution of community-associated methicillin-resistant *Staphylococcus aureus* (CA-MRSA)". Instituto de Tecnologia Química e Biológica. Oeiras, Portugal. November 12, 2010.
6. **Ana Tavares and Joana Rolo.** First Meeting of the Project 99911 Fundação Calouste Gulbenkian. "Staphylococcus aureus isolados na comunidade (CA-MRSA e CA-MSSA): da diversidade genética ao potencial patogénico" Instituto Gulbenkian de Ciência. Oeiras, Portugal. October 10, 2009.

COURSES AND MEETINGS ATTENDED

1. How to Build a Biobank – Learning by Doing, Graz, Austria. November 22-24, 2017.
2. The Global Biobank Week, Stockholm, Sweden. September 13-15, 2017.
3. Ciência 2016 - Encontro com a Ciência e Tecnologia em Portugal, Lisboa, Portugal. July 4-6, 2016.
4. Programa de Prevenção e Controlo de Infeções e de Resistência aos Antimicrobianos (PPCIRA). Jornadas PPCIRA 2015. Lisboa, Portugal. November 16-18, 2015.
5. Bioentrepreneurship curricular units of the ITQB PhD Program. Nova School of Business and Economics, Lisboa. September 17- October 10, 2011.

6. Curricular units of the ITQB PhD Program: Advances in Chemistry and Structural, Trends in Microbial and Cell Biology, Frontiers in Biotechnology, Science Culture and Society. Instituto de Tecnologia Química e Biológica, Oeiras, Portugal. February 1st - March 31, 2010.
7. Control of Community-acquired MRSA: Rationale and Development of counteractions (Project CONCORD–HEALTH-F3-2008-222718 from the European Commission). Second Concord Meeting. Hotel Praia-Mar. Carcavelos, Portugal. June 9-10, 2009.
8. Molecular Evolution, Phylogenetics and Adaptation, Instituto Gulbenkian de Ciência (IGC). Oeiras, Portugal. March 2-6, 2009.
9. Elementary Bioinformatics Skills Course, Instituto Gulbenkian de Ciência (IGC). Oeiras, Portugal. May 21–25, 2007.
10. Practical and Theoretical Course on Bacterial Molecular Typing, 40th European Society of Clinical Microbiology and Infectious Diseases (ESCMID), Postgraduate Education Course. Oeiras, Portugal. April 29 - May 4, 2007.

COURSES AND MEETINGS ORGANIZED

1. Organization of the 1st meeting of the Project entitled “Community-associated methicillin-resistant *Staphylococcus aureus* (CA-MRSA) in Portugal: a pilot study focusing on an emerging public health concern”. Instituto Gulbenkian de Ciência. Oeiras, Portugal. October 10, 2009.

PARTICIPATION IN RESEARCH PROJECTS

JANUARY 2014 – AUGUST 2015

Participation as team member in the project entitled: “Tracking the evolution of methicillin resistance in staphylococci: stages in the evolution of the *mecA* determinant and the SCC*mec* structure”. Funded by Fundação para a Ciência e Tecnologia (Ref. PTDC/BIA-EVF/117507/2010).

MAY 2009 – DECEMBER 2012

Participation as team member in the project entitled: “Community-associated methicillin-resistant *Staphylococcus aureus* (CA-MRSA) in Portugal: a pilot study focusing on an emerging public health concern”. Funded by Fundação Calouste Gulbenkian (Ref. P-99911).

JANUARY 2009 – JUNE 2012

Participation as team member in the project entitled: “CONtrol of COmmunity-acquired MRSA: Rationale and Development of counteractions. Funded by the European Commission (Ref. CONCORD–HEALTH-F3-2008-222718).

FEBRUARY 2007 – JUNE 2008

Participation as team member in the project entitled: “*Staphylococcus aureus* and *Staphylococcus epidermidis*: links between hospital and community”. Funded by Fundação para a Ciência e Tecnologia (Ref. POCTI/SAU-ESP/57841/2004).

JANUARY – FEBRUARY 2007

Participation as team member in the project entitled: “PREVIS - Pneumococcal Resistance Epidemicity and Virulence – an International Study”. Funded by European Union (Ref. LSHM-CT-2003-503413).

AUGUST 2006 – JANUARY 2007

Participation as team member in the project entitled: “Creation of a reference collection of antimicrobial resistant gram-positive bacteria serving the national and international scientific and clinical communities”. Funded by Fundação Calouste Gulbenkian (Ref. 61052).

OCTOBER 2002 – AUGUST 2003

Participation as team member in the project entitled: "SAT-TAGIS: Modelling the habitats of primary producers, invertebrates and birds in intertidal flats of the Tagus Estuary using satellite images and GIS". Funded by Fundação para a Ciência e Tecnologia (Ref. PDCTM1999MAR15256).

OCTOBER 2001 – JULY 2002

Participation as team member in the project: “Sexual conflicts and female reproductive strategies”. Funded by MURST Cofin (Ref. 41).

PUBLICATIONS

THESIS

1. **Tavares, A.**, 2014. Community-associated methicillin-resistant *Staphylococcus aureus* (CA-MRSA) in Portugal: origin, epidemiology and virulence. PhD degree thesis. Universidade Nova de Lisboa. December 12, 2014. (ISBN: 978-989-20-5135-2)
2. **Tavares, A.**, 2006. *Staphylococcus* spp. identification by fluorescence *in situ* hybridization (FISH). Master degree thesis. Universidade Nova de Lisboa. May 16, 2006. (ISBN: 978-989-20-2221-5).

PEER-REVIEWED SCIENTIFIC PAPERS

1. **Miragaia, M., J.C. Thomas, I. E. Tolo, L. Challagundla, E. A. Sansevere, X. Didelot, A. Tavares, J. Y. Park, K. S. Seo, R. Sebra, C. R. Schaeffer, P. D. Fey, S. Boundy, G. Archer, B. M. Gray, H. de Lencastre, D. A. Robinson.** Cryptic Population Structure and Genomic Variation in the Globally Disseminated ST2 Hospital Clone of *Staphylococcus epidermidis*. Genome Biology and Evolution. Submitted.
2. **Alves, M., O. Bouchami, A. Tavares, L. Córdoba, C. F. Santos, M. Miragaia and M. F. Montemor.** New insights into antibiofilm mechanism of a nano-sized ZnO coating against the pathogenic methicillin resistant *Staphylococcus aureus*. 2017. ACS Appl Mater Interfaces **9(34)**:28157-28167.
3. **Tavares, A., J. B. Nielsen, K. Boye, S. Rohde, A. C. Paulo, H. Westh, K. Schonning, H. de Lencastre, and M. Miragaia.** 2014. Insights into alpha-hemolysin (Hla) evolution and expression among *Staphylococcus aureus* clones with hospital and community origin. PLoS One **9(7)**:e98634.

4. **Tavares, A., N. A. Faria, H. de Lencastre and M. Miragaia.** 2013. Population structure of methicillin-susceptible *Staphylococcus aureus* (MSSA) in Portugal over a 19-year period (1992-2011). *Eur. J. Clin. Microbiol. Infect. Dis.* **33(3)**:423-32.
5. **Tavares, A., M. Miragaia, J. Rolo, C.Coelho, H. de Lencastre and CA-MRSA/MSSA working group.** 2013. High prevalence of hospital-associated methicillin-resistant *Staphylococcus aureus* (HA-MRSA) in the community in Portugal: evidence for the blurring of community hospital boundaries. *Eur. J. Clin. Microbiol. Infect. Dis.* **32(10)**:1269-83.
6. **Rolo, J., M. Miragaia, A. Turlej, J. Empel, O. Bouchami, N. A. Faria, A. Tavares, W. Hryniewicz, A. C. Flui, H. de Lencastre and the CONCORD working group.** 2012. High genetic diversity among community-associated *Staphylococcus aureus* in Europe: results from a multicenter study. *PLoS ONE.* **7(4)**: e34768.
7. **Nazareth, R., J. Gonçalves-Pereira, A. Tavares, M. Miragaia, H. de Lencastre, J. Silvestre, P. Freitas, E. Gonçalves, F. Martins, V. Mendes, C. Tapadinhas, P. Póvoa.** 2012. Community-acquired methicillin-resistant *Staphylococcus aureus* infection in Portugal: First report. *Rev. Port. Pneumol.* **18**: 34-38.
8. **Conceição, T., A. Tavares, M. Miragaia, K. Hyde, M. Aires de Sousa, and H. de Lencastre.** 2010. Prevalence and clonality of methicillin resistant *Staphylococcus aureus* (MRSA) in the Atlantic Azores islands: predominance of SCCmec types IV, V and VI. *Eur. J. Clin. Microbiol. Infect. Dis.* **29**:543-50.
- Harris, S., E. J. Feil, M. T.G. Holden, M. A. Quail, E. K. Nickerson, N. Chantratita, S. Gardete, A. Tavares, N. Day, J. Lindsay, J. Edgeworth, H. de Lencastre, J. Parkhill, S. J. Peacock, and S. D. Bentley.** 2009. Evolution of MRSA during hospital transmission and intercontinental spread. *Science.* **327**:469-74.
9. **Tavares, A., J. Inácio, J. Melo-Cristino, and I. Couto.** 2008. The use of fluorescence *in situ* hybridization (FISH) for the rapid identification of staphylococci in blood cultures in a Portuguese hospital. *J. Clin. Microbiol.* **46**:3097-100.

ORAL AND POSTER COMMUNICATIONS

1. **Delgado, C., H.A. Arcuri, J.S. Almeida, M. Miragaia, H. de Lencastre, H.F. Deus and Study Group on Molecular Epidemiology of *Staphylococcus*.** A New User-Friendly Web Infrastructure for the Study of the Molecular Epidemiology of *Staphylococcus aureus*. Microbiotec11. Braga, Portugal. December 1-3,2011.
2. **Delgado, C., J. Almeida, M. Miragaia , H. de Lencastre, Study Group on Molecular Epidemiology of *Staphylococcus*, and H.F. Deus.** A Semantic Web Infrastructure for Bioinformatics of *Staphylococcus aureus*. Poster presented at ISMB/ECCB (19th Annual International Conference on Intelligent Systems for Molecular Biology and 10th European Conference on Computational Biology) and at the ISCB Student's Council Symposium. Vienna, Austria. July 15-19, 2011.
3. **Tavares, A., M. Miragaia, R. Mato, J. Rolo, J. Melo-Cristino, L.M Lito, F. Martins, E. Gonçalves, G. Ribeiro, L. Boaventura, J. Amorim , R. Campinha, A. Fonseca, M. Guimarães, M. Gonçalves, A.M. Costa, J. Mairós, S. Francisco, M.A. Guimarães, C. Lameiras, M. Ribeiro, L. Branco, D. Tuna,**

- A. Faustino, M.T. Vaz, M. Gião, P. Paixão, C. Febra, M.A. Read, M.J. Soares, M.J. Nunes, A. Coutinho, M. Carvalho, T. Sardinha, L. Sancho, G. Sousa, P. Correia, R.M. Barros, C. Gouveia, M. Pinto, M.J. Brito, I. Daniel, G.C. Ferreira, A. Morais, I. Valadares, and H. de Lencastre. High prevalence of hospital-associated *Staphylococcus aureus* epidemic clones in the community in Portugal: evidence for blurring of community/hospital boundaries. Oral Session “CA-MRSA – What is going on with CA-MRSA?”. O350, p. 73. In Programme book of 21st European Congress of Clinical Microbiology and Infectious Diseases/27th International Congress of Chemotherapy (ECCMID/ICC). Milan, Italy. May 7-10, 2011.
4. **Rolo, J., M. Miragaia, A. Turlej, J. Empel, O. Bouchami, N. Faria, A. Tavares, W. Hryniewicz, A.C. Fluit, H. de Lencastre and the CONCORD Working group.** High genetic diversity of community-associated *Staphylococcus aureus* in Europe. Oral Session “CA-MRSA – What is going on with CA-MRSA?”. O348, p. 73. In Programme book of 21st European Congress of Clinical Microbiology and Infectious Diseases/27th International Congress of Chemotherapy (ECCMID/ICC). Milan, Italy. May 7-10, 2011.
 5. **Tavares, A., M. Miragaia, R. Mato, J. Rolo, H. Westh, J. Melo-Cristino, L. M. Lito, F. Martins, E. Gonçalves, G. Ribeiro, L. Boaventura, J. Amorim, R. Campinha, A. Fonseca, M. Guimarães, L. Cabral, A. Machado e Costa, J. Maires, S. Francisco, M. A. Guimarães, C. Lameiras, M. Ribeiro, L. Branco, D. Tuna, A. Faustino, M. T. Azevedo Vaz, P. Paixão, C. Febra, M. A. Read, M. J. Soares, M. J. Nunes, A. Coutinho, M. Carvalho, L. Sancho, T. Sardinha, P. Correia, R. Barros, C. Gouveia, M. Pinto, A. Morais, I. Valadares, K. Hyde, and H. de Lencastre.** Can Panton-Valentine leukocidin (PVL) be used as an epidemiological marker for community-associated *Staphylococcus aureus*? Abstract PP4, p. 33. In Programme and Abstract Book of the First ITQB PhD Students' Meeting. Instituto de Tecnologia Química e Biológica, Oeiras, Portugal. October 21-22, 2010.
 6. **Tavares, A., M. Miragaia, R. Mato, J. Rolo, H. Westh, J. Melo-Cristino, L. M. Lito, F. Martins, E. Gonçalves, G. Ribeiro, L. Boaventura, J. Amorim, R. Campinha, A. Fonseca, M. Guimarães, L. Cabral, A. Machado e Costa, J. Maires, S. Francisco, M. A. Guimarães, C. Lameiras, M. Ribeiro, L. Branco, D. Tuna, A. Faustino, M. T. Azevedo Vaz, P. Paixão, C. Febra, M. A. Read, M. J. Soares, M. J. Nunes, A. Coutinho, M. Carvalho, L. Sancho, T. Sardinha, P. Correia, R. Barros, C. Gouveia, M. Pinto, A. Morais, I. Valadares, K. Hyde and H. de Lencastre.** Evaluation of Panton-Valentine leukocidin (PVL) nucleotide polymorphisms as an epidemiological marker for community-associated *Staphylococcus aureus* clones. Abstr. N°49, p. 60. In Programme and Abstract Book of the 14th International Symposium on Staphylococci and Staphylococcal Infections (ISSSI). Bath, United Kingdom. September 6-9, 2010.
 7. **Tavares, A., M. Miragaia, R. Mato, J. Rolo, J. Melo-Cristino, L. M. Lito, M. L. Gonçalves, F. Martins, E. Gonçalves, P. Paixão, N. Marto, S. Francisco, and H. de Lencastre.** Identification of the first Community-Associated Methicillin-Resistant *Staphylococcus aureus* (CA-MRSA) in Portugal. Abstr. N° 251. In Programme and Abstract Book of the National Congress of Microbiology MICROBIOTEC09. Vilamoura, Portugal. November 28-30, 2009.

8. **Conceição, T., A. Tavares, M. Miragaia, K. Hyde, and Hermínia de Lencastre.** Prevalence and clonality of MRSA in the Atlantic Azores islands: establishment of the epidemic EMRSA-15 clone. Abstr. N° 242. *In* Programme and Abstract Book of the National Congress of Microbiology MICROBIOTEC09. Vilamoura, Portugal. November 28-30, 2009.
9. **Nunes, S., R. Sá-Leão, A. Simões, N. Frazão, A. Tavares, and H. de Lencastre.** Continuous increase of antibiotic resistance among non-vaccine type *Streptococcus pneumoniae* in the era of seven-valent conjugate pneumococcal vaccine. Abstr. P931, p. 101. *In* Programme and Abstract Book of the 19th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID). Helsinki, Finland. May 16 - 19, 2009.
10. **Simões, A. S., R. Sá-Leão, S. Nunes, N. Frazão, A. Tavares, and H. de Lencastre.** Penicillin resistance caused by dissemination of serotype 14 - clone Spain 9V ST156 - in the vaccine era. Abstr. O494, p. 74. *In* Programme and Abstract Book of the 19th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID). Helsinki, Finland. May 16-19, 2009.
11. **Miragaia, M., A. Tavares, M. R. Barroso, E. Paulino, J. M. G. Marcos, M. L. Sancho, T. Sardinha, R. Carneiro, M. H. Carreira, and H. de Lencastre.** Genetic diversity of methicillin-resistant *Staphylococcus epidermidis* (MRSE) within a neonatal intensive care unit (NICU) develop from a single endemic clonal lineage. Abstr. C7, p. 129. *In* Programme and Abstract Book of the 8th International Meeting on Microbiology Epidemiological Markers (IMMEM 8). Zakopane, Poland. May 14-17, 2008.
12. **Tavares, A., J. Inácio, J. Melo-Cristino, H. de Lencastre, and I. Couto.** The applicability of fluorescence *in situ* hybridization (FISH) for rapid identification of staphylococci in blood cultures. Abstr. 255/55, p. 110. *In* Programme and Abstract Book of the 8th European Congress of Chemotherapy and Infection (ECC8). Budapest, Hungary. October 25-28, 2006.
13. **Tavares, A., J. Inácio, J. Melo-Cristino, H. de Lencastre, and I. Couto.** The use of fluorescence *in situ* hybridization (FISH) for rapid detection of staphylococci in positive blood cultures. Abstr. P.076, p. 133. *In* Programme and Abstract Book of the 12th International Symposium on Staphylococci and Staphylococcal Infections (ISSSI). Maastricht, The Netherlands. September 3-6, 2006.
14. **Tavares, A., J. Inácio, J. Melo-Cristino, H. de Lencastre, and I. Couto.** Application of fluorescent *in situ* hybridization (FISH) for direct detection of staphylococci in clinical samples. Abstr. P334, p.408. *In* Programme and Abstract Book of the National Congress of Microbiology MICROBIOTEC05. Póvoa do Varzim, Portugal. November 30-December 3, 2005.
15. **Tavares, A. L., J. C. Fonseca, L. R. Vieira, U. M. Azeiteiro, F. Morgado, and J. C. Marques.** Biochemical composition changes in the mysid *Mesopodopsis slabberi* (van Beneden) after fasting and refeeding periods. p. 134. *In* Programme and Abstract Book of the 31st Annual Symposium of the Estuarine and Coastal Sciences Association (ECSA), "Managing eutrophication of estuaries and near shore waters: a challenge for the new millennium". Bilbao, Spain. July 2-7, 2000.
16. **Vieira, L. R., J. C. Fonseca, A. L. Tavares, U. M. Azeiteiro, F. Morgado, and J. C. Marques.** Assessing the nutritional condition of the suprabenthic mysid *Mesopodopsis slabberi* (van Beneden) in the Mondego estuary (Western Portugal). p. 143. *In* Programme and Abstract Book of the 31st Annual

Symposium of the Estuarine and Coastal Sciences Association (ECSA), "Managing eutrophication of estuaries and near shore waters: a challenge for the new millennium". Bilbao, Spain. July 2-7, 2000.

OTHER SKILLS

LANGUAGE

Language	Reading	Writing	Conversation
English	Good	Good	Good
Italian	Good	Medium	Good
Spanish	Elementary	Elementary	Elementary
French	Elementary	Elementary	Elementary

MOLECULAR BIOLOGY AND MICROBIOLOGY TECHNIQUES

Biobanking and conventional culture techniques, culture preservation and data management, antimicrobial susceptibility testing (disc diffusion test, E-test, microdilution method with population analysis profile), hemolysis assay, DNA extraction (phenol chloroform, boiling and extraction Kits), DNA sequencing, Polymerase Chain Reaction (PCR), RT-PCR (Real-Time PCR), Internal Transcribed Spacer PCR (ITS-PCR), Pulsed-Field Gel Electrophoresis (PFGE), Multilocus Sequence Typing (MLST), staphylococcal cassette chromosome *mec* (SCC*mec*) typing, cassette chromosome recombinase (*ccr*) typing, *Staphylococcus aureus* protein A (*spa*) typing Fluorescence *In Situ* Hybridization (FISH) and Southern blotting.

COMPUTER SKILLS

Word, Excel, PowerPoint

BioNumerics, DNASTar, RIDOM, MEGA 5, PyMOL, Rba statistic

Photoshop, Illustrator, InDesign (Graphic Design Professional Course, FLAG Lisbon <http://www.flag.pt/>)

Memberships

Sociedade Portuguesa de Microbiologia (SPM). Member nr. 289.

ORCID ID 0000-0002-2221-4785

<http://orcid.org/0000-0002-2221-4785>

Scopus ID 57194678863

<https://www.scopus.com/authid/detail.uri?authorId=57194678863>