

Maria Armanda Viana Rodrigues

Graduated in 2007 in Cellular Biology and Biotechnology by Faculdade de Ciências da Universidade de Lisboa. Armanda Rodrigues, having great interest in cell culture and its possible applications to industry, conducted her MSc at Institute of Experimental Biology and Technology (Universidade Nova de Lisboa, UNL) in the scope of VITROCELLOMICS project (LSHB-CT-2006-018940), concluding, in 2008, her Master degree in Cellular Biology and Biotechnology by Faculdade de Ciências da Universidade de Lisboa. Afterwards, as research fellow of the project "Vaccine potential of different Leishmania infantum proteins" (PTDC/CVT/70275/2006) at Instituto de Higiene e Medicina Tropical (IHMT/UNL), she became highly interested in immunology and host-parasite interactions. In 2011 A. Rodrigues integrated the 15th edition of the INOV Contact program, being placed as an intern at the Elan Pharmaceuticals (San Francisco, USA) in the Assay Development Group. This experience increased her ability to adapt to multicultural environments and easiness the integration in distinct work teams. A. Rodrigues was also awarded with a PhD fellowship (SFRH/BD/73386/2010) and during her PhD she established a 3D-cell model of canine liver to assess the role of hepatocytes in liver´s innate immune response to Leishmania infantum infection. The use of 3D-cell models in parasitology was a pioneering work. A. Rodrigues has good communication skills and lecturing experience in post-graduated advanced national and international courses, such as in molecular and cellular biology courses on the North Brazilian Biotechnology Network (RENORBIO, Universidade Federal do Piauí, Teresina, Paui, Brazil). To expand, update and improve her knowledge, she attended numerous seminars and courses. Since the attribution of her PhD degree, A. Rodrigues has participated as post-doctoral researcher in several projects at national and international levels, extended her scientific knowledge and network to different areas. A. Rodrigues participated in the project "Ovarian cancer a suitable model to define metabolic profile as a tool to predict chemoresistance", iNOVA4Health Project, Multi/04462 NOVA Medical School at Centro de Estudos de Doenças Crónicas (UNL) and at Unidade de Investigação de Patobiologia Molecular (Instituto Portugues de Oncology, Portugal) and as independent researcher for NO SELF, SLR (Italy). More recently, A. Rodrigues has participated in the project "Understanding the underlying mechanisms by which mesenchymal stem cells promote liver regeneration: the specific role of exosomes" (PTDC/MED-TOX/29183/2017). In this project, A. Rodrigues worked with human stem cell derived hepatocyte-like cells in developing hepatotoxicity models for drug testing and 3D cell models. Presently, A. Rodrigues is a Post-Doctoral researcher at IHMT/UNL in the project "Achieving new frontiers through trypanosomatid exosomes" (PTDC/CVT-CVT/28908/2017), where she is addressing parasite-host immune cell communication. A. Rodrigues is presently author and co-author of 20 scientific papers published in peer review journals and 1 book chapter. She also has participated in numerous national and international scientific meetings, divulging her most innovative results. A. Rodrigues is also member of research and development center GHTM and lecturer at IHMT/UNL on practical classes of master and PhD biomedical sciences courses. A. Rodrigues current areas of expertise are:

3D cell culture systems;

Immunology and host-parasite interaction;

Liver metabolism and local immunology ;

Cell and molecular Biology;

Trypanosomatids biology;

Cytotoxicity assays for drug screening;

Biology of cancer;

Extracellular vesicles characterization.

Identification

Personal identification

Full name

Maria Armanda Viana Rodrigues

Citation names

Rodrigues, Armanda

Rodrigues, Maria Armanda
Armanda Viana Rodrigues

Author identifiers

Ciência ID
F713-B3A9-FAF1

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Knowledge fields

Natural sciences - Biological Sciences - Cell Biology
Medical and Health Sciences - Health Sciences - Parasitology
Medical and Health Sciences - Basic Medicine - Immunology
Natural sciences - Biological Sciences - Molecular Biology
Agrarian Sciences - Veterinary Sciences

Languages

Language	Speaking	Reading	Writing	Listening	Peer-review
Portuguese (Mother tongue)					
English	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)
French	Intermediate (B1)	Intermediate (B1)	Intermediate (B1)	Intermediate (B1)	
Spanish; Castilian	Intermediate (B1)	Intermediate (B1)	Beginner (A1)	Intermediate (B1)	

Education

	Degree	Classification
2019/03/14 - 2019/03/15 Concluded	COST Action 17112 PRO-EURO DILI NET - Assessment of Drug-Induced-Liver Injury: Key rules and common pitfalls. How to make a clinical narrative. (Outros) Major in Attendance of 1st Training Course of the COST Action 17112 PRO-EURO DILI NET - Assessment of Drug-Induced-Liver Injury: Key rules and common pitfalls. How to make a clinical narrative. PRO-EURO DILI Network - Instituto de Investigación Biomédica de Málaga, Spain	Approved
2011/10/01 - 2017/03/10 Concluded	Doutoramento em Ciências Biomédicas (Doutoramento) Major in Work supported by the Portuguese Science Foundation (FCT), with a PhD scholarship - SFRH / BD / 73386 / 2010. Authorship of three scientific papers doi: 10.1016/j.imbio.2016.08.00; doi.org/10.1016/j.cimid.2017.09.004 and doi: 10.1017/S0031182018002068. Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal <i>"Canine leishmaniasis: the role of Kupffer cells and hepatocytes during Leishmania infantum infection"</i>	Unanimously Approved

(THESIS/DISSERTATION)

2015/04/29 - 2015/05/09 Concluded	Project Management- 1st edition (Outros) Major in Attendance of the course "Project Management- 1st edition"	Final grade 17 (out of 20).
	NOVA Doctoral School, Portugal	
2014/12/09 - 2014/12/12 Concluded	Introduction to Bioinformatics (Outros) Major in Attendance of the theoretical course of "Introduction to Bioinformatics" IB14S	Approved
	Instituto Gulbenkian de Ciência, Portugal	
2014/05/07 - 2014/05/09 Concluded	Science communication – 8º edition (Outros) Major in Attendance of the course "Science communication – 8º edition"	Final grade 17 (out of 20).
	NOVA Doctoral School, Portugal	
2010/02 - 2013/02 Concluded	Rodents and fish in research - Accreditation for legal use of animals in scientific experiments (Diploma de especialização) Major in Accreditation in Portuguese Direcção Geral de Veterinária (DGV) for legal use of animals in scientific experiments	Approved
	Instituto de Medicina Molecular, Portugal Sociedade Portuguesa de Ciências em Animais de Laboratório - SPCAL, Portugal	
2010/03 - 2010/05 Concluded	French for health classes (Outros) Major in Improvement of French language in context of health sciences	12 (out of 20)
	Instituto de Línguas da Universidade Nova de Lisboa, Portugal	
2009/01 - 2009/01 Concluded	Inflammation - an experimental approach (Pós- Graduação)	Approved
	Universidade de Lisboa Faculdade de Farmácia, Portugal	
2007/09/01 - 2008/12/05 Concluded	Biologia Celular e Biotecnologia (Cellular Biology and Biotechnology) (Mestrado) Major in Co-authorship in two scientific papers: doi: 10.1089/ten.TEC.2009.0784 and doi: 10.1089/ten.tec. 2008.0352.	18 valores
	Universidade de Lisboa Faculdade de Ciências, Portugal "Desenvolvimento de sistemas 3D de culturas primárias de hepatócitos para teste de drogas (Development of 3D primary hepatocyte cultures for drug screening)" (THESIS/DISSERTATION)	

2003/09 - 2007/09/14
Concluded

Cellular Biology and Biotechnology (Licenciatura)

15 valores

Universidade de Lisboa Faculdade de Ciências, Portugal
"n/a" (THESIS/DISSERTATION)

Affiliation

Science

2020/06/01 - Current Postdoc (Research)
Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal

2019/01/01 - 2019/12/31 Postdoc (Research)
Faculty of Pharmacy Research and Development Association - FARM-iD, Portugal

2018/07/01 - 2018/12/31 Postdoc (Research)
NO SELF, SLR, Italy

Teaching in Higher Education

2012/10 - 2013/02 Invited Adjunct Teacher (Polytechnic Teacher)
Instituto Superior de Ciências Educativas, Portugal

Others

2010/12/01 - 2011/09/01 Intern for AICEP Portugal Global, in the 15th INOV Contact program 2010/2011 edition. Internship at Elan Pharmaceuticals integrated in the Assay Development group under the supervision of doctor Rut
Elan Pharmaceuticals, South San Francisco, Califórnia, USA, United States

Projects

Grant

	Designation	Funders
2017/01 - 2018/01	Ovarian cancer a suitable model to define metabolic profile as a tool to predict chemoresistance. iNOVA4Health- project 4 Research Fellow Universidade Nova de Lisboa Centro de Estudos de Doenças Crónicas, Portugal Instituto Português de Oncologia de Lisboa Francisco Gentil EPE Unidade de Investigação em Patobiologia Molecular, Portugal	iNOVA4Health, Portugal

2011/10 - 2015/09	<p>Canine leishmaniasis: the role of Kupffer cells and hepatocytes during Leishmania infantum infection. SFRH / BD / 73386 / 2010</p> <p>PhD Student Fellow</p> <p>Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal Universidade Nova de Lisboa Saúde Global e Medicina Tropical, Portugal</p>	Fundação para a Ciência e a Tecnologia, Portugal
2011 - 2015	<p>Consequences of neutrophil-Leishmania infantum interactions in the establishment of canine leishmaniosis Provided by PTCRIS: 113121</p> <p>Other</p> <p>Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal</p>	Fundação para a Ciência e a Tecnologia, I.P., Portugal
2011 - 2013	<p>Regulatory immune response in dogs with leishmaniosis at various clinical stages and undergoing different therapeutic protocols. Provided by PTCRIS: 118566</p> <p>Other</p> <p>Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal Universidade de Lisboa Faculdade de Medicina Veterinária, Portugal</p>	Fundação para a Ciência e a Tecnologia, I.P., Portugal
2009/03 - 2010/09	<p>Vaccine potential of different Leishmania infantum proteins info:eu-repo/grantAgreement/FCT/5876-PPCDTI/70275/PTPTDC/CVT/70275/2006</p> <p>Research Fellow</p> <p>Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal</p>	Fundação para a Ciência e a Tecnologia, Portugal

Contract

	Designation	Funders
2020/06/01 - Current	<p>Achieving new frontiers through trypanosomatid exosomes (TE_x)-PTDC/CVT-CVT/28908/2017 PTDC/CVT-CVT/28908/2017</p> <p>Post-doc Fellow</p> <p>Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal</p>	Fundação para a Ciência e a Tecnologia, Portugal
2019/01 - 2020/01	<p>Understanding the underlying mechanisms by which mesenchymal stem cells promote liver regeneration: the specific role of exosomes PTDC/MED-TOX/29183/2017</p> <p>Post-doc Fellow</p> <p>Universidade de Lisboa Faculdade de Farmácia, Portugal</p>	Fundação para a Ciência e a Tecnologia, Portugal

Other

	Designation	Funders
2009 - 2011	<p>Microtubule inhibitor formulations against zoonotic visceral leishmaniasis</p> <p>info:eu-repo/grantAgreement/FCT/3599-PPCDT/82489/PT</p> <p>Other</p> <p>Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal</p> <p>INETI - Instituto Nacional de Engenharia, Portugal</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal</p>
2007/09 - 2008/12	<p>VITROCELLOMICS - Reducing Animal Experimentation in Preclinical Predictive Drug Testing by Human Hepatic in vitro Models Derived from Embryonic Stem Cells</p> <p>LSHB-CT-2006-018940</p> <p>Other</p> <p>Universidade Nova de Lisboa Instituto de Tecnologia Química e Biológica, Portugal</p>	<p>European Union, Belgium</p>

Outputs

Publications

Book chapter	1	<p>Alexandre-Pires, G.; Santos, M.; Rodrigues, M. A.; Pereira, M. A.; Gomes, J.; Diaz, S. A.; Gomes, L.; et al. "Leishmaniosis: New Insights in a Changing World". In <i>Advances in Animal Health, Medicine and Production</i>, 301-320. Springer International Publishing, 2020.</p> <p>Published · 10.1007/978-3-030-61981-7_17</p>
Conference abstract	1	<p>Silva-Pedrosa, R.; Baptista-Fernandes, T.; Rodrigues, Armanda; Santos-Mateus, David; Alexandre-Pires, Graça; Pereira, MA.; Toscano, C.; et al. "Host immunocompetence influences the activation of neutrophils when exposed to <i>Leishmania</i> spp.". Paper presented in <i>International Conference on Parasitology, Manchester</i>, 2016.</p> <p>Published · 10.17758/eap.eap816245</p>
	2	<p>Marques, C.; Falcão, S.; Novais, F.; Santos, D.; Rodrigues, Armanda; Passero, F.; Santos-Mateus, David; et al. "Role of neutrophils in parasite persistence and in host immunity during the initial phase of <i>Leishmania chagasi</i> experimental infection". Paper presented in <i>15th International Congress of Immunology, Milan</i>, 2013.</p> <p>Published · 10.3389/conf.fimmu.2013.02.01056</p>
	3	<p>Gonçalves, LDM.; Armada, A.; Rodrigues, Armanda; Santos-Gomes, Gabriela; Novo, C.; Rosário, VE.; Almeida, AJ; Domingos, A.. "Protease cisteínica recombinante de <i>Plasmodium chabaudi</i> como novo alvo para vacinação antimalária: estratégias de vacinação por nanopartículas poliméricas.". Paper presented in <i>XIV Congresso Português de Parasitologia, Porto</i>, 2010.</p> <p>Published</p>

- 4 Marques, C.; Rodrigues, Armanda; Santos-Gomes, Gabriela. "Exocytosis of serine proteases and modulation of neutrophil inflammatory response in the presence of *Leishmania infantum*". Paper presented in *Tri-Society Annual Conference 2009 of the Society for Leukocyte Biology, International Cytokine Society, & International Society for Interferon and Cytokine Research, Cellular and Cytokine Interactions in Health and Disease, Lisbon, 2009*.
Published · <https://doi.org/10.1016/j.cyto.2009.07.290>

Conference poster

- 1 Rafael-Fernandes, M.; Armada, A.; Alexandre-Pires, Graça; Valério-Bolas, Ana; Rodrigues, Armanda; Viveiros, M.; Santos-Gomes, Gabriela. "Conventional antileishmanial drug associated with membrane transport modulators represents a new strategy to leishmaniasis treatment.". Paper presented in *1st International Caparica Congress on Leishmaniasis 2018. 29th-30th October 2018. Caparica, Portugal., 2018*.
- 2 Santos, M.; Alexandre-Pires, Graça; Marques, C.; Pereira, MA.; Gomes, J.; Gomes, L.; Rodrigues, Armanda; et al. "Lymphocyte differentiation in dogs treated for canine leishmaniasis.". Paper presented in *1st International Caparica Congress on Leishmaniasis 2018. 29th-30th October 2018. Caparica, Portugal., 2018*.
- 3 Pereira, MA.; Valério-Bolas, Ana; Santos-Mateus, David; Alexandre-Pires, Graça; Santos, M.; Rodrigues, Armanda; Rocha, H.; et al. "Canine neutrophils ensure the survival of virulent *Leishmania infantum* parasites.". Paper presented in *Wordleish 6, Spain, 16 -20 May 2017 - Poster session: Host-parasite cellular and molecular interaction - C-0424., 2017*.
- 4 Valério-Bolas, Ana; Pereira, MA.; Alexandre-Pires, Graça; Santos-Mateus, David; Rodrigues, Armanda; Rafael-Fernandes, Mariana; Gabriel, A.; Passero, Felipe; Santos-Gomes, Gabriela. "Leishmania activation of murine neutrophils is species specific.". Paper presented in *Wordleish 6, Spain, 16 -20 May 2017 - Poster session: Clinical and experimental prophylactic and therapeutic vaccination. Clinical and experimental immunology - C-0708., 2017*.
- 5 Pereira, MA.; Alexandre-Pires, Graça; Câmara, M.; Rodrigues, Armanda; Santos, M.; Adriana, J.; Passero, F.; Pereira da Fonseca, Isabel; Santos-Gomes, Gabriela. "Neutrófilos e macrófagos caninos cooperam no estabelecimento da infeção por *Leishmania infantum*". Paper presented in *II Congresso Nacional das Escolas Superiores Agrárias, Elvas, 16-18 November 2017., 2017*.
- 6 Pereira, MA.; Alexandre-Pires, Graça; Câmara, M.; Gabriel, A.; Ruas, P.; Manjate, G.; Rodrigues, Armanda; et al. "A high resolution image technique for the study of recently discovered macrophage effector functions.". Paper presented in *Joint Conference 31st Conference of the European Association of Veterinary Anatomists and 42nd World Congress of the World Association for the History of Veterinary Medicine. 27th-30th July 2016, University of Veterinary Medicine, Vienna. P015, 2016*.
- 7 Rodrigues, Armanda; Santos-Mateus, David; Alexandre-Pires, Graça; Valério-Bolas, Ana; Santos, M.; Rafael-Fernandes, Mariana; Ligeiro, D.; et al. "3D-hepatocyte culture for parasitological studies: the example of *Leishmania infantum* infection.". Paper presented in *FCT Dia Aberto Ciência 2016 - Science and Technology in Portugal Meeting, from the 4th to the 6th July, 2016, Lisbon Congress Centre., 2016*.

- 8 Rafael-Fernandes, Mariana; Alexandre-Pires, Graça; Rodrigues, Armanda; Santos-Mateus, David; Valério-Bolas, Ana; Silva-Pedrosa, R.; Passero, Felipe; Santos-Gomes, Gabriela. "Promastigotes of different species of *Leishmania* exhibit distinguishable morphology by scanning electron microscopy.". Paper presented in *XXIV International Symposium on Morphological Sciences, Istanbul, Turkey, 2-6 September 2015.*, 2015.

- 9 Rodrigues, Armanda; Alexandre-Pires, Graça; Santos-Mateus, David; Ligeiro, D.; Valério-Bolas, Ana; Martins, C.; Rafael-Fernandes, Mariana; et al. "Innate immune receptors of canine kupffer cells sense *Leishmania infantum*". Paper presented in *4th European Congress of Immunology, Vienna, Austria, 6-9 September 2015*, 2015.

- 10 Rodrigues, Armanda; Alexandre-Pires, Graça; Santos-Mateus, David; Ligeiro, D.; Valério-Bolas, Ana; Rafael-Fernandes, Mariana; Pereira, MA.; Pereira da Fonseca, Isabel; Santos-Gomes, Gabriela. "3D canine hepatocyte culture system modeling the *Leishmania infantum* liver infection". Paper presented in *XXIV International Symposium on Morphological Sciences, Istanbul, Turkey, 2-6 September 2015. Anatomy, Volume 9 / Suppl 2 S132.*, 2015.

- 11 Pereira, MA.; Alexandre-Pires, Graça; Valério-Bolas, Ana; Câmara, M.; Santos-Mateus, David; Rodrigues, Armanda; Santos, M.; Pereira da Fonseca, Isabel; Santos-Gomes, Gabriela. "*Leishmania infantum* does not induce dog's neutrophil extracellular traps.". Paper presented in *XXIV International Symposium on Morphological Sciences, Istanbul, Turkey, 2-6 September 2015*, 2015.

- 12 Pereira, MA.; Valério-Bolas, Ana; Santos-Mateus, David; Rodrigues, Armanda; Santos, M.; Rocha, H.; Rocha, A.; et al. "The balance between activation and parasite modulation of dog neutrophils is crucial for *Leishmania infantum* infection.". Paper presented in *4th European Congress of Immunology, Vienna, Austria, September 6-9 2015. Abstract Book pp 140.*, 2015.

- 13 Rodrigues, Armanda; Alexandre-Pires, Graça; Santos-Mateus, David; Pereira, MA.; Valério-Bolas, Ana; Rafael-Fernandes, Mariana; Silva-Pedrosa, R.; Pereira da Fonseca, Isabel; Santos-Gomes, Gabriela. "A exposição a *Leishmania infantum* causa alterações metabólicas nos hepatócitos caninos". Paper presented in *V Jornadas Científicas do IHMT*, 2014.

- 14 Rodrigues, Armanda; Alexandre-Pires, Graça; Santos-Mateus, David; Valério-Bolas, Ana; Rafael-Fernandes, Mariana; Pereira, MA.; Pereira da Fonseca, Isabel; Santos-Gomes, Gabriela. "Impact on cell metabolism of dog hepatocytes when exposed to *Leishmania infantum*". Paper presented in *Congress of the European Association of Veterinary Anatomists, Cluj-Napoca, Romania*, 2014.

- 15 Claro, M.; Rodrigues, Armanda; Santos-Mateus, David; Valério-Bolas, Ana; Martins, C.; Alexandre-Pires, Graça; Santos-Gomes, Gabriela. "Analysis of cell memory in liver of mice infected with *Leishmania infantum*". Paper presented in *Fundação Astrazeneca Innovate Competition, iMed 5.0 Conference. Rectorate of Universidade Nova de Lisboa, 12th- 13th October 2013.*, 2013.

- 16 Valério-Bolas, Ana; Pereira, MA.; Santos, M.; Rafael-Fernandes, Mariana; Rodrigues, Armanda; Santos-Mateus, David; Claro, M.; Pereira da Fonseca, Isabel; Santos-Gomes, Gabriela. "Importance of neutrophils and macrophages in the immune response to *Leishmania* sp. Infection.". Paper presented in *Fundação Astrazeneca Innovate Competition, an initiative included in iMed 5.0 Conference. Rectorate of Universidade Nova de Lisboa, on the 12th and 13th of October 2013.*, 2013.
- 17 Marques, C.; Falcão, S.; Novais, F.; Santos, D.; Rodrigues, Armanda; Passero, Felipe; Santos-Mateus, David; et al. "Role of neutrophils in parasite persistence and in host immunity during the initial phase of *Leishmania chagasi* experimental infection". Paper presented in *15th International Congress of Immunology (ICI) 22-27 August 2013. Milan. Italy.*, 2013.
- 18 Rodrigues, Armanda; Alexandre-Pires, Graça; Santos-Mateus, David; Marques, C.; Valério-Bolas, Ana; Rafael-Fernandes, Mariana; Pereira da Fonseca, Isabel; Santos-Gomes, Gabriela. "Impact on the metabolic function and immune activity of dog hepatocytes when exposed to *Leishmania infantum*". Paper presented in *EMBO young scientists' forum. 15-16 July 2013. Lisbon, Portugal*, 2013.
- 19 Alexandre-Pires, Graça; Cabral, G.; Rodrigues, Armanda; Santos-Mateus, David; Nunes, T.; Ligeiro, D.; Pereira da Fonseca, Isabel. "A snapshot over morphology and division of cultured *Leishmania infantum* parasites. Are these features important to access therapeutics activity over these parasites?". Paper presented in *WorldLeish 5, Porto de Galinhas, Brazil. 13-17 May 2013. Abstract-Book, O341.*, 2013.
- 20 Valério-Bolas, Ana; Rodrigues, Armanda; Teixeira, F.; Santos-Mateus, David; Carvalho, S.; Tomás, A.; Santos-Gomes, Gabriela. "T-cells immune response induced by cyclophilin A, superoxide dismutase and aminopeptidase L. *infantum* recombinante proteins.". Paper presented in *WorldLeish 5, Porto de Galinhas, Brazil. 13-17 May 2013. Abstract-Book P185.*, 2013.
- 21 Santos-Mateus, David; Esteves, A.; Rodrigues, Armanda; Carvalheiro, M.; Lopes, R.; Cruz, E.; Santos-Gomes, Gabriela. "Genotypic analysis of *Leishmania infantum* resistance to conventional drugs and new synthesized compounds.". Paper presented in *WorldLeish 5, Porto de Galinhas, Brazil. 13-17 May 2013. Abstract-Book P508.*, 2013.
- 22 Rodrigues, Armanda; Santos-Mateus, David; Valério-Bolas, Ana; Pereira, MA.; Alexandre-Pires, Graça; Pereira da Fonseca, Isabel; Santos-Gomes, Gabriela. "Isolation of primary dog hepatocytes.". Paper presented in *III Jornadas Científicas do Instituto de Higiene e Medicina Tropical, 12th December, Lisbon, 2012.*, 2012.
- 23 Marques, C.; Rodrigues, Armanda; Santos-Gomes, Gabriela. "Exocytosis of serine proteases and modulation of neutrophil inflammatory response in the presence of *Leishmania infantum*". Paper presented in *Tri-Society Annual Conference 2009 of the Society for Leukocyte Biology, International Cytokine Society, & International Society for Interferon and Cytokine Research, Cellular and Cytokine Interactions in Health and Disease*, 2009.
- <https://doi.org/10.1016/j.cyto.2009.07.290>

- 24 Marques, C.; Rodrigues, Armanda; Vale-Gato, Inês; Santos-Gomes, Gabriela. "Macrophage immune response in the presence of neutrophils exposed to *Leishmania infantum* parasites". Paper presented in *XXXIV Congresso da Sociedade brasileira de Imunologia*. 3-6 November 2009, Salvador, Bahia, Brasil, CD Imuno 09, Poster 026., 2009.

Journal article

- 1 Ana Serras; Joana Rodrigues; Madalena Cipriano; Rodrigues, Armanda; Nuno G Oliveira. "A critical perspective on 3D liver models for drug metabolism and toxicology studies". *Frontiers Cell and Developmental Biology* (2021): In press · 10.3389/fcell.2021.626805
- 2 Rodrigues, Armanda V.; Alexandre-Pires, Graça; Valério-Bolas, Ana; Santos-Mateus, David; Rafael-Fernandes, Mariana; Pereira, Maria A.; Ligeiro, Dário; et al. "3D-Hepatocyte Culture Applied to Parasitology: Immune Activation of Canine Hepatic Spheroids Exposed to *Leishmania infantum*". *Biomedicines* 8 12 (2020): 628. <http://dx.doi.org/10.3390/biomedicines8120628>.
Published · 10.3390/biomedicines8120628
- 3 Santos, Marcos Ferreira; Alexandre-Pires, Graça; Pereira, Maria A.; Marques, Cátia S.; Gomes, Joana; Correia, Jorge; Duarte, Ana; et al. "Meglumine Antimoniate and Miltefosine Combined With Allopurinol Sustain Pro-inflammatory Immune Environments During Canine Leishmaniosis Treatment". *Frontiers in Veterinary Science* 6 (2019): <http://dx.doi.org/10.3389/fvets.2019.00362>.
Published · 10.3389/fvets.2019.00362
- 4 Mendes, Cindy; Lopes-Coelho, Filipa; Ramos, Cristiano; Martins, Filipa; Santos, Inês; Rodrigues, Armanda; Silva, Fernanda; André, Saudade; Serpa, Jacinta. "Unraveling FATP1, regulated by ER- β , as a targeted breast cancer innovative therapy". *Scientific Reports* 9 1 (2019): <http://dx.doi.org/10.1038/s41598-019-50531-3>.
Published · 10.1038/s41598-019-50531-3
- 5 Pereira, Maria A.; Alexandre-Pires, Graça; Câmara, Margarida; Santos, Marcos; Martins, Catarina; Rodrigues, Armanda; Adriana, Jéssica; et al. "Canine neutrophils cooperate with macrophages in the early stages of *Leishmania infantum* in vitro infection". *Parasite Immunology* 41 4 (2019): e12617. <http://dx.doi.org/10.1111/pim.12617>.
Published · 10.1111/pim.12617
- 6 Valério-Bolas, Ana; Pereira, Maria; Alexandre-Pires, Graça; Santos-Mateus, David; Rodrigues, Armanda; Rafael-Fernandes, Mariana; Gabriel, Aurea; Passero, Felipe; Santos-Gomes, Gabriela. "Intracellular and extracellular effector activity of mouse neutrophils in response to cutaneous and visceral *Leishmania* parasites". *Cellular Immunology* 335 (2019): 76-84. <http://dx.doi.org/10.1016/j.cellimm.2018.11.003>.
Published · 10.1016/j.cellimm.2018.11.003
- 7 Rodrigues, A.; Alexandre-Pires, G.; Valério-Bolas, A.; Santos-Mateus, D.; Rafael-Fernandes, M.; Pereira, M. A.; Ligeiro, D.; et al. "Dog hepatocytes are key effector cells in the liver innate immune response to *Leishmania infantum*". *Parasitology* 146 6 (2018): 753-764. <http://dx.doi.org/10.1017/s0031182018002068>.
Published · 10.1017/s0031182018002068
- 8 Nunes, Sofia C.; Ramos, Cristiano; Lopes-Coelho, Filipa; Sequeira, Catarina O.; Silva, Fernanda; Gouveia-Fernandes, Sofia; Rodrigues, Armanda; et al. "Cysteine allows ovarian cancer cells to adapt to hypoxia and to escape from carboplatin cytotoxicity". *Scientific Reports* 8 1 (2018): <http://dx.doi.org/10.1038/s41598-018-27753-y>.

- 9 Pereira, Maria; Valério-Bolas, Ana; Santos-Mateus, David; Alexandre-Pires, Graça; Santos, Marcos; Rodrigues, Armanda; Rocha, Hugo; et al. "Canine neutrophils activate effector mechanisms in response to *Leishmania infantum*". *Veterinary Parasitology* 248 (2017): 10-20. <http://dx.doi.org/10.1016/j.vetpar.2017.10.008>.
Published · 10.1016/j.vetpar.2017.10.008
- 10 Rodrigues, A.; Santos-Mateus, D.; Alexandre-Pires, G.; Valério-Bolas, A.; Rafael-Fernandes, M.; Pereira, M.A.; Ligeiro, D.; et al. "*Leishmania infantum* exerts immunomodulation in canine Kupffer cells reverted by meglumine antimoniate". *Comparative Immunology, Microbiology and Infectious Diseases* 55 (2017): 42-52. <http://dx.doi.org/10.1016/j.cimid.2017.09.004>.
Published · 10.1016/j.cimid.2017.09.004
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Thesis /
Dissertation

- 1 Rodrigues, Armanda. "Canine leishmaniasis: the role of hepatocytes and Kupffer cells during *Leishmania infantum* infection". PhD, Universidade Nova de Lisboa, 2017. <http://hdl.handle.net/10362/20432>.

Activities

Oral presentation

	Presentation title	Event name Host (Event location)
2020/12/10	Leishmaniose canina: iniciação da resposta imunitária por células dendríticas derivadas de monócitos caninos.	XI Jornadas Científicas do Instituto de Higiene e Medicina Tropical, 10th December, Lisbon, 2020. Instituto de Higiene e Medicina Tropical (Lisbon, Portugal)
2020/02	Hepatocyte-like cells as a model for hepatotoxicity studies.	Sociedade Portuguesa de Farmacologia - 50. ^a Reunião da Sociedade Portuguesa de Farmacologia, 38. ^a Reunião de Farmacologia Clínica, 19. ^a Reunião de Toxicologia.

2019/12/20	New approaches for liver regeneration. iMed-ULisboa, PostDoc Seminar Series. 20th December 2019.	iMed-ULisboa, PostDoc Seminar Series Faculdade de Farmácia da universidade de Lisboa (Lisboa, Portugal)
2017/05	Kupffer cells and blood derived macrophages respond differently to Leishmania infantum parasites. Oral session: Host-parasite cellular and molecular interaction: C-0917. Wordleish 6, Spain, 16 -20 May 2017.	Wordleish 6 world congress on leishmaniasis (Toledo, Spain)
2017/05	Meglumine antimoniate and miltefosin treatment protocols tend to restore cytokine normal levels in canine leishmaniosis. Oral session: Clinical and experimental immunopathology and pathogenesis C- 0724. Wordleish 6, Spain, 16 -20 May 2017.	Wordleish 6 World congress on leishmaniasis (Toledo, Spain)
2017	Canine leishmaniasis: the role of Kupffer cells and hepatocytes during Leishmania infantum infection. IPO- weekly seminar 31st May 2017	IPO- weekly seminar Instuto Português de Oncologia- IPO (Lisboa, Portugal)
2016/09	Leishmania infantum modula a extrusão de histona H1 em macrófagos caninos. Workshop UNL/INSA de Doenças Transmitidas por Vectores. 26th September, Lisbon, 2016.	Workshop de Doenças Transmitidas por Vectores UNL/INSA (Lisboa, Portugal)
2016/08	Host immunocompetence influences the activation of neutrophils when exposed to Leishmania spp. 2nd International Conference on Parasitology. August 01-03, 2016 Manchester, UK. J Bacteriol Parasitol 2016, 7:3 (Suppl). http://dx.doi.org/10.4172/2155-9597.C1.019	2nd International Conference on Parasitology (Manchester, United Kingdom)
2016/07	Leishmania infantum: the dooble face of dog's neutrophils. International Conference on Global Challenges in Neglected Tropical Diseases. July 13-15, 2016, León, Spain.	International Conference on Global Challenges in Neglected Tropical Diseases (León, Spain)

2015/07	<p>Leishmania infantum modulates the metabolism of dog hepatocyte. XIX Congreso de la Sociedad Espanola de Parasitología, II Encuentro Internacional de Parasitólogos de Espanha, Francia, Italia y Portugal. Vitoria-Gasteiz, Spain, 23-25 July 2015. Abstract book pp H5. http://www.congresoparasitologia.org/info/H.pdf</p>	<p>XIX Congreso de la Sociedad Espanola de Parasitología, II Encuentro Internacional de Parasitólogos de Espanha, Francia, Italia y Portugal. Universidade del País Vasco (Vitoria-Gasteiz, Spain)</p>
2014/11	<p>Leishmaniose Humana.</p>	<p>Congresso da Ordem dos Médicos Veterinários, 29- 30 November 2014, Lisbon. Ordem dos Médicos Veterinários (Lisbon, Portugal)</p>
2013/12/12	<p>Impact in the metabolic function and immune response of dog hepatocytes exposed to Leishmania infantum. IV Jornadas Científicas do Instituto de Higiene e Medicina Tropical 12th December, Lisbon, 2013.</p>	<p>IV Jornadas Científicas do Instituto de Higiene e Medicina Tropical Instituto de Higiene e Medicina Tropical (Lisboa, Portugal)</p>
2013/05	<p>Zoonotic visceral leishmaniosis- New insights in the dynamics of celular memory. WorldLeish 5 - Abstract-Book , O182. Porto de Galinhas, Brazil. 13-17 May 2013.</p>	<p>WorldLeish 5 World Congress in Leishmaniasis (Porto de Galinhas, Brazil)</p>
2013	<p>Role of Toll-Like receptors during L. infantum infection. Congresso WorldLeish 5, Porto de Galinhas, Brasil. 13-17 May. Abstract-Book, O331.</p>	<p>WorldLeish 5 World Congress on Leishmaniasis (Porto de Galinhas, Brazil)</p>
2013	<p>Imunidade e resposta imunitária na leishmaniose canina.</p>	<p>Congresso da Ordem dos Médicos Veterinários, 30th November – 1st December de 2013, Lisbon. Ordem dos Médicos Veterinários (Lisbon, Portugal)</p>
2012/05	<p>Tratamento e monitorização da leishmaniose canina. Jornadas de Parasitologia II. Escola Superior de Tecnologia da Saúde do Porto. 24th May 2012, Vila nova de Gaia.</p>	<p>Jornadas de Parasitologia II Escola Superior de Tecnologia da Saúde do Porto (Porto, Portugal)</p>
2012/05	<p>Leishmaniose canina: a resposta imunitária e o diagnóstico sorológico. Jornadas de Parasitologia II. Escola Superior de Tecnologia da Saúde do Porto. 24th May 2012, Vila nova de Gaia.</p>	<p>Jornadas de Parasitologia II Escola Superior de Tecnologia da Saúde do Porto (Porto, Portugal)</p>

2010	<p>Imunização com proteínas recombinantes de <i>Leishmania infantum</i>: subpopulações de linfócitos citotóxicos</p> <p>Programa iberoamericano de ciencia y tecnologia para el desarrollo (CYTED)</p> <p>Mecanismos de controle e imunoproliferação na leishmaniose (Leishvacina)</p> <p>Salvador, Bahia, Brasil 2010.</p>	<p>Programa iberoamericano de ciencia y tecnologia para el desarrollo (CYTED)</p> <p>Mecanismos de controle e imunoproliferação na leishmaniose (Leishvacina)</p> <p>(Bahia, Brazil)</p>
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2010	<p>Subpopulações de células T com fenótipo de memória em murghanos imunizados com proteína recombinante de <i>Leishmania infantum</i>. Acta Parasitológica Portuguesa, 17 (2):8.</p> <p>XIV Congresso Português de Parasitologia, 8-10 September 2010, Porto, Portugal.</p>	<p>XIV Congresso Português de Parasitologia</p> <p>Sociedade Portuguesa de Parasitologia (Porto, Portugal)</p>
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Supervision

	Thesis Title Role	Degree Subject (Type) Institution / Organization
2020/10/01 - Current	<p>Unravel the immunomodulatory potential of exosomes of cutaneous <i>Leishmania</i> spp. using an in vitro cellular model of skin</p> <p>Supervisor</p>	<p>(Master)</p> <p>Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal</p>
2020/10/01 - Current	<p>Efeito da vesículas extracelulares de espécies cutâneas de <i>Leishmania</i> em macrófagos de murghano.</p> <p>Co-supervisor</p>	<p>master</p> <p>Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal</p>

Event participation

	Activity description Type of event	Event name Institution / Organization
2019/10/10 - 2019/10/12	<p>Attendance of 11th International Meeting of the Portuguese society for stem cells and cell therapies. Faculdade de Farmácia, Universidade de Lisboa</p> <p>Congress</p>	<p>11th International Meeting of the Portuguese society for stem cells and cell therapies.</p> <p>Universidade de Lisboa Faculdade de Farmácia, Portugal</p>
2013 - 2013	<p>Frequency of the Workshop "Dengue: Present and Future", lectured by Centro de Malária e outras Doenças Tropicais (CMDT, IHMT-UNL).</p> <p>Workshop</p>	<p>Dengue: Present and Future</p> <p>Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal</p>

2013 - 2013	Attendance of the course on “Intellectual and industrial property”, Instituto Nacional da Propriedade Industrial (INPI, Lisbon, Portugal). Workshop	Intellectual and industrial property Instituto Nacional da Propriedade Industrial IP, Portugal
2013 - 2013	Attendance of a seminar on “Applications of electron microscopy to biomedicine”, Portuguese Microscopy Society, Egas Moniz - Cooperativa de Ensino Superior CRL (Almada, Portugal). Seminar	Applications of electron microscopy to biomedicine Egas Moniz Cooperativa de Ensino Superior CRL, Portugal
2011 - 2011	Attendance of “BioImaging Nano Course on Microscopy”, IMM, FMUL. Several techniques of microscopy were addressed. Workshop	BioImaging Nano Course on Microscopy Instituto de Medicina Molecular, Portugal
2010 - 2010	Participation in the Workshop RNA Therapeutics, Harvard Medical School-Portugal Program and European Network of Excellence on Alternative Splicing (EURASNET, Lisbon, Portugal). Workshop	RNA Therapeutics Harvard Medical School, United States

Association member

	Society Organization	Role
2021/02 - Current	Sociedade Portuguesa de Imunologia	
2020 - Current	Global Health and Tropical Medicine (GHTM) from Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa (IHMT-UNL).	
2015 - 2017	Global Health and Tropical Medicine (GHTM) from Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa (IHMT-UNL).	
2009 - 2015	Centro de Malária e outras Doenças Tropicais (CMDT), Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa (IHMT-UNL)	
2010 - 2010	Programa Iberoamericano de Ciencia y Tecnologia para el Desarrollo (CYTED)	

Course / Discipline taught

	Academic session	Degree Subject (Type)	Institution / Organization
2020/12 - Current	Unidade Curricular Fundamentos de Imunologia Parasitária, aulas práticas	Mestrado em Parasitologia Médica (Mestrado)	Universidade Nova de Lisboa Instituto de Higiene e Medicina

"Citometria de fluxo " e
"Quantificação de citocinas-RT-PCR"

Tropical, Portugal

2020/12 - Current	Unidade Curricular Imunologia das Doenças Infecciosas e Parasitárias, aula prática "Citometria de Fluxo"	Doutoramento em Ciências Biomédicas (Doutoramento)	Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal
2020/10 - Current	Unidade curricular de Imunologia, "Infecção e Inflamação"	Mestrado em Ciências Biomédicas (Mestrado)	Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal
2014 - 2015	Post-graduate MSc course in Medical Parasitology of IHMT-UNL; theoretical-practical classes in Immunological Methodologies.	Medical Parasitology (Mestrado)	Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal
2014 - 2015	Doctorate course in Medical Parasitology of IHMT-UNL; theoretical-practical classes in Immunology of infectious and parasitic diseases	Medical Parasitology (Curso de doutoramento (conclusão de unidades curriculares))	Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal
2013 - 2013	Post-graduate MSc course in Biomedical Sciences of IHMT-UNL; practical classes in Immunology.	Biomedical Sciences (Mestrado)	Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal
2013 - 2013	Post-graduate MSc course in Tropical Health of IHMT-UNL; practical classes in Immunology Methodologies and Infectious Diseases.	Tropical Health (Mestrado)	Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal
2013 - 2013	Lecturing in the Post-graduate MSc course in Medical Parasitology of IHMT-UNL; practical classes in Basic principles of parasite immunology.	Medical Parasitology (Mestrado)	Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal
2012 - 2012	Post-graduated advanced course in Cell and Molecular Biology of the North Brazilian Network of Biotechnology, RENORBIO, Universidade Federal do Piauí, Teresina, Brazil. Coordination, theoretical and practical lectures. Basic techniques of primary cell isolation and culture were addressed with the Isolation of	Cell and Molecular Biology (Postgraduate Certificate)	Universidade Federal do Piauí, Brazil

lymphocytes from mice spleen. Principles of immunology were explored with the analysis of cells and supernatants by RT-PCR and ELISA respectively. Flow cytometry technique and principles were also addressed.

2012 - 2012	Post-graduate MSc course in Medical Parasitology of IHMT-UNL; practical classes in Parasitic Immunology.	Medical Parasitology (Mestrado)	Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal
2010 - 2010	Post-graduated advanced course in Cell and Molecular Biology of the North Brazilian Network of Biotechnology, RENORBIO, Universidade Federal do Piauí, Teresina, Brazil. Coordination, theoretical and practical lectures. Basic techniques of primary cell isolation and culture were addressed with the Isolation of lymphocytes from mice spleen. Principles of immunology were explored with the analysis of cells and supernatants by RT-PCR and ELISA respectively. Flow cytometry technique and principles were also addressed.	Cell and Molecular Biology (Postgraduate Certificate)	Universidade Federal do Piauí, Brazil
2009 - 2010	Lecturing in the Post-graduate MSc course in Medical Parasitology of IHMT-UNL, practical classes in “Módulo de Leishmanioses” on immunology methodologies, cell immunity in Leishmania infected hosts and parasite immunology.	Medical Parasitology (Mestrado)	Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal

Journal scientific committee

	Journal title (ISSN)	Publisher
2021 - Current	Acta Tropical	
2021 - Current	Immunology Research	
2020 - Current	Veterinary Parasitology Regional Studies and Reports	
2020 - Current	Applied Microbiology and Biotechnology	
2012 - 2012	International Journal of Tissue Engineering (2314-4416)	Hindawi Limited

2011 - 2011 International Journal of Tissue Engineering (2314-4416) Hindawi Limited

Mentoring / Tutoring

	Topic	Student name
2015 - 2016	Ativação de neutrófilos de indivíduos saudáveis e imunocomprometidos por promastigotas de <i>Leishmania</i> spp.	Ana Rita Pedrosa
2014 - 2015	Caracterização da internalização de fármacos antileishmania e novos compostos por macrófagos parasitados por <i>Leishmania</i> spp.	Mariana Rafael Fernandes
2014 - 2015	Análise da memória celular hepática na infeção por <i>Leishmania infantum</i> .	Mafalda Sofia da Silva Claro
2013 - 2014	Eficácia da quercetina na leishmaniose visceral murina: associação com a chalcona CH8, formulações nanoestruturadas e imunomodulação	Cíntia Iana Monteiro da Silva
2011 - 2014	Atividade oxidativa e não oxidativa de células fagocitárias expostas a protozoários do género <i>Leishmania</i>	Ana Sofia Valério Bolas
2013 - 2013	"Gene expression of TLR of macrophages and lymphocytes B in dogs treated with antimonials"	José Eduardo dos Santos Silva
2012 - 2012	Scientific and technical support of Veterinary student (from Universidade Federal da Uberlândia, Minas Gerais, Brazil) during Erasmus mundis internship at the Parasitic immunology and vaccine group, IHMT-UNL.	Bruno Cabral Pires
2011 - 2012	Scientific and technical support to veterinary student (Medicina Veterinária, Universidad Complutense, Spain) during the internship on Parasitic Immunology, at the Parasitic immunology and vaccine group, IHMT-UNL.	Izabel González García
2009 - 2011	Scientific and technical support of internship student at the Parasitic immunology and vaccine group, IHMT-UNL.	David Jorge Santos Mateus
2009 - 2010	Scientific and technical supervision of student from the Faculdade de Medicina Veterinária, Universidade Técnica de Lisboa, with a Scholarship of initiation to research (from FCT/MCIES).	Elsa Baptista

