

# Meriem Lamghari Moubarrad

Group Leader of NeuroSkeletal Circuits (NESK) research group at INEB/i3S and Professor at Institute of Biomedical Sciences Abel Salazar of University of Porto. She has graduated in Cell Biology at Université Jussieu Paris 7- France and received her Ph.D. in Osteoarticular Biology, Biomechanics and Biomaterials from the same University in 1999. Her research interests focus on skeletal tissues repair and regeneration. Her scientific path started with the study of biomaterials for vertebral bone regeneration and progressed through her postdoc at INEB (2000-2004, Portugal) where she was actively involved in project aiming to develop bioactive biomaterials for local drug delivery for bone repair in a rare disease (Gaucher's disease). In 2005, she became senior researcher at INEB. In the framework of INEB's Research Program Aging, Tissue repair and Tissue Regeneration, she actively participated in projects aiming to develop bioactive biomaterials to modulate inflammatory response and promote bone regeneration. In 2009, she established her own research team. In the framework of her research, she developed 3D models in microfluidic devices for skeletal-non skeletal cells communication studies. To this date, she was successful in obtaining funding for 20 externally funded projects, 6 of which as coordinator. Currently, she is the coordinator of the H2020 RESTORE project (ref 814558) "User-centred smart 3D nanobiomaterial-based scaffold for chondral repair" started on 1st January 2019. She is also partner in the H2020 FLAMIN-GO project" From pathobioLogy to synoviA on chip: driving rheuMatold arthritis to the precisioN medicine GOal", in the MSCA-ITN EU/H2020 "BonePainII: A European Training Network to combat bone pain (ref 814244)"and in the MSCA-ITN EU/H2020 "Precision medicine for musculoskeletal regeneration, prosthetics and active ageing" (Proposal number 860462). She is an active member of European networks and established national and international collaborations that resulted in several papers and awards. She is also involved in Doctoral and Post-doctoral supervision, educational activities, animal ethics, lab management and organisation of scientific meetings.

## Identification

### Personal identification

Full name

Meriem Lamghari Moubarrad

### Citation names

Lamghari, Meriem

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Ciência ID

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<https://www.i3s.up.pt/research-group?x=124> (Professional)

## Knowledge fields

Medical and Health Sciences - Basic Medicine - Neurosciences

Medical and Health Sciences - Medical Biotechnology - Health-Related Biotechnology

## Languages

Language	Speaking	Reading	Writing	Listening	Peer-review
Arab (Mother tongue)					
English	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)
French	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)
Portuguese	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)	Proficiency (C2)

## Education

	Degree	Classification
1999 Concluded	Biologie Ostéo Articulaires, Biomecanique et Biomatériaux (Doctorat)  Université Paris Diderot IUT Paris Diderot, France <i>"Evaluation de l'effet ostéogène de la nacre en site vertébral" (THESIS/DISSERTATION)</i>	1st: Très honorable avec félicitation du Jury
1995 Concluded	Diplôme d'Etudes Approfondies (DEA)  Université Paris Diderot IUT Paris Diderot, France <i>"A model for evaluating injectable bone replacements in the vertebrae of sheep: radiological and histological study" (THESIS/DISSERTATION)</i>	Good
1994 Concluded	Biologie Cellulaire (Maîtrise)  Université Paris Diderot IUT Paris Diderot, France	Good

1993 Concluded	Biologie (Licence)	Good
Université Paris Diderot IUT Paris Diderot, France		

## Affiliation

### Science

2009 - Current	Coordinating Researcher (Research) Instituto Nacional de Engenharia Biomédica, Portugal
2009 - 2018	Principal Investigator (Research) Instituto Nacional de Engenharia Biomédica, Portugal
2005/12 - 2009	Auxiliary Researcher (Research) Instituto Nacional de Engenharia Biomédica, Portugal
2004 - 2004	Postdoc (Research) Garvan Institute of Medical Research, Australia
2000 - 2004	Postdoc (Research) Instituto Nacional de Engenharia Biomédica, Portugal

### Teaching in Higher Education

2014 - Current	Invited Associate Professor (University Teacher) Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2008 - 2013	Invited Assistant Professor (University Teacher) Universidade do Porto Faculdade de Engenharia, Portugal

## Projects

### Grant

	Designation	Funders
2019/01/01 - Current	RESTORE- User-centred smart 3D nanobiomaterial-based scaffold for chondral repair H2020 project- H2020-NMBP-TR-IND-2018 -ref 814558 Supervisor Universidade do Porto Instituto de Investigação e Inovação em Saúde, Portugal	European Commission, Belgium

2020/12/01 - 2024/12/01	<p>FLAMIN-GO "From pathobioLogy to synoviA on chip: driving rheuMatold arthritis to the precisioN medicine Goal" 953121</p> <p>Other</p> <p>Universidade do Porto Instituto de Investigação e Inovação em Saúde, Portugal</p>	European Commission, Belgium
2020/01/01 - 2023/12/31	<p>PREMUROSA - New generation trained for musculoskeletal disease treatment 860462</p> <p>Instituto Nacional de Engenharia Biomédica, Portugal Universidade do Porto Instituto de Investigação e Inovação em Saúde, Portugal</p>	European Commission, Belgium
2019/01/01 - 2022/12/31	<p>BonePainII - A European Training Network to Combat Bone Pain 814244</p> <p>Instituto Nacional de Engenharia Biomédica, Portugal Universidade do Porto Instituto de Investigação e Inovação em Saúde, Portugal</p>	European Commission, Belgium
2018 - 2021	<p>Pathological nerve sprouting in bone metastases: OSTEOCLASTS, what are you doing? T496067694-00034977 PTDC/MED-PAT/30158/2017</p> <p>Supervisor</p> <p>Universidade do Porto Instituto de Investigação e Inovação em Saúde, Portugal Instituto Nacional de Engenharia Biomédica, Portugal Instituto de Medicina Molecular, Portugal Universidade do Porto Instituto de Biologia Molecular e Celular, Portugal</p>	Fundação para a Ciência e a Tecnologia, Portugal
2017 - 2020	<p>The role of nerve growth mediator semaphoring 3A in joint pain 21526</p> <p>Instituto Nacional de Engenharia Biomédica, Portugal Universidade do Porto Instituto de Investigação e Inovação em Saúde, Portugal</p>	Arthritis Research UK Marketing and Fundraising, United Kingdom
2017/07/01 - 2019	<p>Disc degeneration -, immune- and neuro-modulation 2017_5</p> <p>Instituto Nacional de Engenharia Biomédica, Portugal Universidade do Porto Instituto de Investigação e Inovação em Saúde, Portugal</p>	EUROSPINE The Spine Society of Europe, Switzerland

2016 - 2019	<p>Structured Programme on Bioengineering Therapies for Infectious Diseases and Tissue Regeneration NORTE-01-0145-FEDER-000012</p> <p>Instituto Nacional de Engenharia Biomédica, Portugal Universidade do Porto Instituto de Investigação e Inovação em Saúde, Portugal</p>	Comissao de Coordenacao e Desenvolvimento Regional do Norte, Portugal
2016 - 2019	<p>Structured Programme on Neuroscience and Neurologic Disease Research Initiative at i3S NORTE-01-0145-FEDER-000008</p> <p>Universidade do Porto Instituto de Investigação e Inovação em Saúde, Portugal</p>	Comissao de Coordenacao e Desenvolvimento Regional do Norte, Portugal
2013 - 2017	<p>GLISTEN: GPCR_ligand Interactions, Structures, and Transmembrane Signalling: a European Research Network. COST CM1207</p> <p>Instituto Nacional de Engenharia Biomédica, Portugal</p>	European Commission, Belgium
2011 - 2015	<p>NAMABIO - From NAno to MAcro BIOmaterials (design, processing, characterisation, modelling) and applications to stem cells regenerative orthopaedic and dental medicine MP1005</p> <p>Instituto Nacional de Engenharia Biomédica, Portugal</p>	European Commission, Belgium
2012 - 2014	<p>Imaging flow cytometry as a tool for Y1R antagonist characterisation as a drug for bone regeneration n/a</p> <p>Instituto Nacional de Engenharia Biomédica, Portugal</p>	Instituto Nacional de Engenharia Biomédica, Portugal
2010 - 2013	<p>MIMESIS: Marine invertebrates models &amp; engineered substrates for innovative Bio-Scaffolds n/a</p> <p>Researcher Instituto Nacional de Engenharia Biomédica, Portugal</p>	Fondazione Cariplo, Italy
2005 - 2006	<p>Effect of leptin hormone on bone remodelling (in osteoporosis) n/a</p> <p>Supervisor Instituto Nacional de Engenharia Biomédica, Portugal</p>	Instituto Nacional de Engenharia Biomédica, Portugal

2001 - 2004	Extracellular effect of Ca <sup>++</sup> on osteogenesis and chondrogenesis:Cbfa 1 regulation n/a Researcher	Instituto Nacional de Engenharia Biomédica, Portugal
1999 - 2001	GAUCHER: Bioactive biomaterials as support for the immobilisation and subsequent in vivo release of Imiglucerase: A new therapeutic approach for the treatment of Gaucher's Disease PRAXIS/P/SAU/12288/98. Researcher Instituto Nacional de Engenharia Biomédica, Portugal	Fundação para a Ciência e a Tecnologia, Portugal

## Contract

	Designation	Funders
2019/03/19 - 2022/03/18	Mind The Gap: decoding and bridging somatosensory information in the spinal cord PTDC/EMD-EMD/31540/2017 Researcher Universidade do Porto, Portugal	Fundação para a Ciência e a Tecnologia, Portugal
2018/07/01 - 2021/06/30	Bioengineered Advanced Therapies for Problematic Infected Wounds PTDC/NAN-MAT/31781/2017 Researcher Universidade do Porto, Portugal	Fundação para a Ciência e a Tecnologia, Portugal
2018/07/23 - 2021/02/18	New Active Medical Implants PTDC/EEI-EEE/32348/2017 Universidade do Porto, Portugal International Iberian Nanotechnology Laboratory, Portugal	Fundação para a Ciência e a Tecnologia, Portugal
2016/06/01 - 2019/12/01	Sensory innervation in the complex orchestration of bone regeneration: interplay in microfluidics platforms PTDC/BIM-MED/4041/2014 Instituto de Engenharia de Sistemas e Computadores Microsistemas e Nanotecnologias, Portugal	Fundação para a Ciência e a Tecnologia, Portugal
2016/07/01 - 2019/06/28	Hybrid Neuron-Memristor Adaptive Platform PTDC/CTM-NAN/3146/2014 Universidade do Porto Faculdade de Ciências, Portugal Instituto de Engenharia de Sistemas e Computadores	Fundação para a Ciência e a Tecnologia, Portugal

2013/04/15 - 2015/09/30	Y1 receptor based therapy for local bone repair: Antagonist behavior and delivery in challenged bone microenvironment PTDC/BIM-MED/1047/2012	Fundação para a Ciência e a Tecnologia, Portugal
	Universidade do Porto Faculdade de Ciências, Portugal Universidade do Porto Instituto de Biologia Molecular e Celular, Portugal Universidade do Porto Instituto de Ciências e Tecnologias Agrárias e Agro-Alimentares, Portugal	
2010/02/05 - 2013/07/31	NPwhY - Innervation and angiogenesis for the benefit of osteogenesis: the involvement of NPY neuronal pathway in bone repair PTDC/SAU-OSM/101469/2008	Fundação para a Ciência e a Tecnologia, Portugal
	Universidade de Coimbra Centro de Neurociências e Biologia Celular, Portugal Universidade do Porto Faculdade de Medicina, Portugal Universidade do Porto Instituto de Biologia Molecular e Celular, Portugal	
2010/02/05 - 2013/07/31	BIOMATRIX-Multifunctional extracellular matrix-analogues as biomaterials for bone regeneration PTDC/SAU-BEB/101235/2008	Fundação para a Ciência e a Tecnologia, Portugal
	Researcher Fundação da Faculdade de Ciências da Universidade de Lisboa, Portugal Universidade do Porto Faculdade de Ciências, Portugal	

## Other

	Designation	Funders
2016 - 2019	NeuronMAP: Hybrid Neuron-Memristor Adaptive Platform PTDC/CTM-NAN/3146/2014	Fundação para a Ciência e a Tecnologia, Portugal
	Researcher Instituto Nacional de Engenharia Biomédica, Portugal	
2010/05/03 - 2013	Hybrid Sr-releasing injectable system for vertebroplasty PTDC/CTM/103181/2008	Fundação para a Ciência e a Tecnologia, Portugal
	Instituto Nacional de Engenharia Biomédica, Portugal	

2010 - 2013      Incorporação de sinais inflamatórios em biomateriais: uma estratégia integradora para promover a reparação/regeneração óssea  
PTDC/SAU-BEB/099954/2008      Fundação para a Ciência e a Tecnologia, Portugal

Researcher  
Instituto Nacional de Engenharia Biomédica, Portugal

2004 - 2007      FEPA - Core Laboratories for the improvement of medical devices in clinical practice from failure of explanted prostheses analysis (COST Action 537)  
COST Action 537      European Cooperation in Science and Technology, Belgium

Researcher  
Instituto Nacional de Engenharia Biomédica, Portugal

## Outputs

### Publications

- Book chapter
- 1      Vasconcelos, D.M.; Cortez, J.; Lamghari, Meriem. "Technical Standards and Legislation for Implants and Implantable Medical Devices". In *Reference Module in Materials Science and Materials Engineering*. Elsevier, 2016.  
Accepted · 10.1016/b978-0-12-803581-8.04059-5
  - 2      NETO, ESTRELA; Paramos-de-Carvalho, Diogo; Lourenço, Ana Henriques; Aguiar, Paulo; Lamghari, Meriem. "Compartmentalized Microfluidic Platforms as Tool of Choice to Study the Interaction Between Neurons and Osteoblasts". In *Microfluidic and Compartmentalized Platforms for Neurobiological Research*, 161-179. Springer New York, 2015.  
Accepted · 10.1007/978-1-4939-2510-0\_10
- Conference abstract
- 1      Lamghari, Meriem. "Neuropeptide Y Y1 receptor deletion impairs matrix demineralization and resorption". Paper presented in *43rd European Calcified Tissue Society Congress, Rome, 2016*.  
Accepted
  - 2      Lamghari, Meriem. "The role of Neuropeptide Y Y1 receptor signalling in fracture healing". Paper presented in *41st European Calcified Tissue Society Congress, Prague, 2014*.  
Accepted
  - 3      Lamghari, Meriem. "Neuropeptide Y Y1 receptor antagonism: a novel anabolic tool for bone regeneration". Paper presented in *Tissue Engineering & Regenerative Medicine International Society, European Chapter Meeting, Genova, 2014*.  
Accepted
  - 4      Lamghari, Meriem. "Bone and peripheral nervous system interactions within bone tissue engineering perspective". Paper presented in *3rd TERMIS World Congress 2012, Vienna, 2012*.  
Accepted



- 5 Lamghari, Meriem. "Disclosing the underlying interaction between bone and peripheral nervous system: Optimization of coculture systems". Paper presented in *39th Annual Congress of the European-Calcified-Tissue-Society (ECTS), Stockholm, 2012*.  
Accepted
- 6 Lamghari, Meriem. "Rgd-grafted pectin microspheres for human mesenchymal stem cell delivery and in situ bone regeneration". Paper presented in *24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, Dublin, 2011*.  
Published
- 7 Lamghari, Meriem. "Hypothalamic NPY expression during bone regeneration". Paper presented in *7th Joint Meeting of the European Neuropeptide Club and the American-Summer-Neuropeptide, Pecs, 2010*.  
Published
- 8 Lamghari, Meriem. "Osteoblast proliferation and apoptosis: role of Neuropeptide Y and Y1 receptor". Paper presented in *36th European Symposium on Calcified Tissues, Vienna, 2009*.  
Published
- 9 Lamghari, Meriem. "Neuronal signaling and the regulation of bone remodeling new insights into the role of neuropeptide Y Y1 and Y2 receptors in osteoblast function". Paper presented in *11th Meeting of the Portuguese Society for Neuroscience, Braga, 2009*.  
Published
- 10 Lamghari, Meriem. "Leptin effect on RANKL and OPG expression in MC3T3-E1 osteoblasts". Paper presented in *28th Annual Meeting of the American-Society-for-Bone-and-Mineral-Research, Philadelphia, 2006*.  
Published

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- Conference paper 1 Martins, J P; Alves, Cecília J; NETO, ESTRELA; Moreira, D M; Xavier, M; Daniela M. Sousa; Alencastre, I; Lamghari, Meriem. "An in vitro approach to unravel the modulation of the hypothalamic system by blood-circulating factors". *Porto, 2015*.  
Accepted · 10.1109/enbeng.2015.7088886
- 2 Lamghari, Meriem. "Effect of competitive preadsorption of HSA and FN on osteoblasts adhesion on TiO 2". Paper presented in *8th World Biomaterials Congress 2008, Amsterdam, 2008*.

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- Journal article 1 Lamghari, Meriem. "The Mechanisms Underlying the Biological Response to Wear Debris in Periprosthetic Inflammation". *Frontiers in Materials* 7 (2020): <https://www.scopus.com/record/display.uri?eid=2-s2.0-85090829062&origin=resultslist&sort=plf-f&src=s&sid=a39e4e8b8a1622396273c4b66389b74c&sot=a&sdt=a&sl=56&s=AUID%28%22Lamghari%2c+Meriem%22+6507911058%29+AND+PUBYEAR+IS+2020&relpos=3&citeCnt=0&searchTerm=>.  
Published
- 2 Lamghari, Meriem. "Fluorescent H2Receptor Squaramide-Type Antagonists: Synthesis, Characterization, and Applications". *ACS Medicinal Chemistry Letters* 11 8 (2020): <https://www.scopus.com/record/display.uri?eid=2-s2.0-85090451532&origin=resultslist&sort=plf-f&src=s&sid=a39e4e8b8a1622396273c4b66389b74c&sot=a&sdt=a&sl=56&s=AUID%28%22Lamghari%2c+Meriem%22+6507911058%29+AND+PUBYEAR+IS+2020&relpos=4&citeCnt=0&searchTerm=>.

- 3 Lamghari, Meriem. "Evaluation of nisin and II-37 antimicrobial peptides as tool to preserve articular cartilage healing in a septic environment". *Frontiers in Bioengineering and Biotechnology* 8 (2020): <https://www.scopus.com/record/display.uri?eid=2-s2.0-85087105680&origin=resultslist&sort=plf-f&src=s&sid=a39e4e8b8a1622396273c4b66389b74c&sot=a&sdt=a&sl=56&s=AU-ID%28%22Lamghari%2c+Meriem%22+6507911058%29+AND+PUBYEAR+IS+2020&relpos=5&citeCnt=0&searchTerm=>.  
Published
- 4 Leite, Diana M.; Sousa, Daniela; Lamghari, Meriem; Pêgo, Ana Paula. "Exploring Poly(Ethylene Glycol)-Poly(Trimethylene Carbonate) Nanoparticles as Carriers of Hydrophobic Drugs to Modulate Osteoblastic Activity". *Journal of Pharmaceutical Sciences* 109 4 (2020): 1594-1604. <http://dx.doi.org/10.1016/j.xphs.2020.01.007>.  
Published · 10.1016/j.xphs.2020.01.007
- 5 Pagella, Pierfrancesco; Miran, Shayee; NETO, ESTRELA; Martin, Ivan; Lamghari, Meriem; Mitsiadis, Thimios A.. "Human dental pulp stem cells exhibit enhanced properties in comparison to human bone marrow stem cells on neurites outgrowth". *The FASEB Journal* 34 4 (2020): 5499-5511. <http://dx.doi.org/10.1096/fj.201902482r>.  
10.1096/fj.201902482r
- 6 Sousa, Daniela; Martins, Pedro S.; Leitão, Luís; Alves, Cecília J; Gomez-Lazaro, Maria; NETO, ESTRELA; Conceição, Francisco; Herzog, Herbert; Lamghari, Meriem. "The lack of neuropeptide Y-Y 1 receptor signaling modulates the chemical and mechanical properties of bone matrix". *The FASEB Journal* 34 3 (2020): 4163-4177. <http://dx.doi.org/10.1096/fj.201902796r>.  
Accepted · 10.1096/fj.201902796r
- 7 Lamghari, Meriem. "Osteoblasts are inherently programmed to repel sensory innervation". *Bone Research* (2020): <https://portal.i3s.up.pt/docs/danisous/158791255433441413202096Authorpdf.pdf>.  
Accepted · Open access · 10.1038/s41413-020-0096-1
- 8 Leitão, Luís; Alves, Cecília J; Sousa, Daniela; NETO, ESTRELA; Conceição, Francisco; Lamghari, Meriem. "The alliance between nerve fibers and stem cell populations in bone marrow: life partners in sickness and health". *The FASEB Journal* 33 8 (2019): 8697-8710. <http://dx.doi.org/10.1096/fj.201900454r>.  
Accepted · 10.1096/fj.201900454r
- 9 Heiney, Kristine; Mateus, José C.; Lopes, Cátia D. F.; NETO, ESTRELA; Lamghari, Meriem; Aguiar, Paulo. "µSpikeHunter: An advanced computational tool for the analysis of neuronal communication and action potential propagation in microfluidic platforms". *Scientific Reports* 9 1 (2019): <http://dx.doi.org/10.1038/s41598-019-42148-3>.  
Accepted · 10.1038/s41598-019-42148-3
- 10 Ribeiro-da-Silva, M.; Vasconcelos, D. M.; Alencastre, I. S.; Oliveira, M. J.; Linhares, D.; Neves, N.; Costa, G.; et al. "Interplay between sympathetic nervous system and inflammation in aseptic loosening of hip joint replacement". *Scientific Reports* 8 1 (2018): <http://dx.doi.org/10.1038/s41598-018-33360-8>.  
Accepted · 10.1038/s41598-018-33360-8
- 11 Leitão, Luís; Alves, Cecília J; Alencastre, Inês S.; Sousa, Daniela; NETO, ESTRELA; Conceição, Francisco; Leitão, Catarina; et al. "Bone marrow cell response after injury and during early stage of regeneration is independent of the tissue-of-injury in 2 injury models". *The FASEB Journal* 33 1 (2018): 857-872. <http://dx.doi>.

Accepted · 10.1096/fj.201800610rr

- 12 Silva, Eduarda M.P.; Varandas, Pedro A.M.M.; Melo, Tânia; Barros, Cristina; Alencastre, Inês S.; Barreiros, Luísa; Domingues, Pedro; et al. "Gas-phase structural characterization of neuropeptides Y Y1 receptor antagonists using mass spectrometry: Orbitrap vs triple quadrupole". *Journal of Pharmaceutical and Biomedical Analysis* 151 (2018): 227-234. <http://dx.doi.org/10.1016/j.jpba.2018.01.013>.
- Accepted · 10.1016/j.jpba.2018.01.013
- 13 Costa, Fabíola; Daniela M. Sousa; Parreira, Paula; Moubarrad, Meriem; Gomes, Paula; Martins, M. Cristina L. "N-acetylcysteine-functionalized coating avoids bacterial adhesion and biofilm formation". *Scientific Reports* 7 1 (2017): <http://dx.doi.org/10.1038/s41598-017-17310-4>.
- Accepted · 10.1038/s41598-017-17310-4
- 14 da Silva, Manuel Ribeiro; Linhares, Daniela; Vasconcelos, Daniel Marques; Alves, Cecília J; Neves, Nuno; Costa, Gilberto; Moubarrad, Meriem. "Neuroimmune expression in hip osteoarthritis: a systematic review". *BMC Musculoskeletal Disorders* 18 1 (2017): <http://dx.doi.org/10.1186/s12891-017-1755-2>.
- Accepted · 10.1186/s12891-017-1755-2
- 15 NETO, ESTRELA; Alves, Cecília J; Leitão, Luís; Daniela M. Sousa; Alencastre, Inês S.; Conceição, Francisco; Moubarrad, Meriem. "Axonal outgrowth, neuropeptides expression and receptors tyrosine kinase phosphorylation in 3D organotypic cultures of adult dorsal root ganglia". *PLoS ONE* 12 7 (2017): <https://doi.org/10.1371/journal.pone.0181612>.
- Accepted · 10.1371/journal.pone.0181612
- 16 Henriques Lourenço, Ana; Neves, Nuno; Ribeiro-Machado, Cláudia; Sousa, Susana R.; Moubarrad, Meriem; Barrias, Cristina C.; Trigo Cabral, Abel; Barbosa, Mário A.; Ribeiro, Cristina C.. "Injectable hybrid system for strontium local delivery promotes bone regeneration in a rat critical-sized defect model". *Scientific Reports* 7 1 (2017): <http://dx.doi.org/10.1038/s41598-017-04866-4>.
- Accepted · 10.1038/s41598-017-04866-4
- 17 Daniela M. Sousa; Alencastre, Ines; Leitao, Luís; NETO, ESTRELA; Alves, Cecília J; Moubarrad, Meriem. "Therapeutic Drugs in Bone Loss-Associated Disorders: Clinical Outcomes and Challenges". *Current Drug Targets* 18 6 (2017): 696-704. <http://dx.doi.org/10.2174/1389450117666160709024547>.
- Accepted · 10.2174/1389450117666160709024547
- 18 Vasconcelos, Daniel M.; Gonçalves, Raquel M.; Almeida, Catarina R.; Pereira, Inês O.; Oliveira, Marta I.; Neves, Nuno; Silva, Andreia M.; et al. "Fibrinogen scaffolds with immunomodulatory properties promote in vivo bone regeneration". *Biomaterials* 111 (2016): 163-178. <http://dx.doi.org/10.1016/j.biomaterials.2016.10.004>.
- Accepted · 10.1016/j.biomaterials.2016.10.004
- 19 NETO, ESTRELA; Leitão, Luís; Daniela M. Sousa; Alves, Cecília J; Alencastre, Inês S.; Aguiar, Paulo; Lamghari, Meriem. "Compartmentalized Microfluidic Platforms: The Unrivaled Breakthrough of In Vitro Tools for Neurobiological Research". *The Journal of Neuroscience* 36 46 (2016): 11573-11584. <http://dx.doi.org/10.1523/jneurosci.1748-16.2016>.
- Accepted · 10.1523/jneurosci.1748-16.2016
- 20 Alves, Cecília J; Alencastre, Inês S.; NETO, ESTRELA; Ribas, João; Ferreira, Sofia; Vasconcelos, Daniel M.; Daniela M. Sousa; Summavielle, Teresa; Moubarrad, Meriem. "Bone Injury and Repair Trigger Central and Peripheral NPY Neuronal Pathways". *PLOS ONE* 11 11 (2016): e0165465. <http://dx.doi.org/10.1371/journal>.

- 21 Sousa, Daniela; Conceição, Francisco; Silva, Diana I.; Leitão, Luís; NETO, ESTRELA; Alves, Cecília J; Alencastre, Inês S.; et al. "Ablation of Y1 receptor impairs osteoclast bone-resorbing activity". *Scientific Reports* 6 1 (2016): <http://dx.doi.org/10.1038/srep33470>.  
Accepted · 10.1038/srep33470
- 22 Vasconcelos, Daniel M.; Ribeiro-da-Silva, Manuel; Mateus, António; Alves, Cecília J; Machado, Gil Costa; Machado-Santos, Joana; Paramos-de-Carvalho, Diogo; et al. "Immune response and innervation signatures in aseptic hip implant loosening". *Journal of Translational Medicine* 14 1 (2016): <http://dx.doi.org/10.1186/s12967-016-0950-5>.  
Accepted · 10.1186/s12967-016-0950-5
- 23 Alencastre, IS; Daniela M. Sousa; Alves, Cecília J; Leitão, L; NETO, ESTRELA; Aguiar, P; Moubarrad, Meriem. "Delivery of pharmaceuticals to bone: nanotechnologies, high-throughput processing and in silico mathematical models". *European Cells and Materials* 31 (2016): 355-381. <http://dx.doi.org/10.22203/ecm.v031a23>.  
10.22203/ecm.v031a23
- 24 Alves, Cecília J; NETO, ESTRELA; Daniela M. Sousa; Leitão, Luís; Vasconcelos, Daniel M.; Ribeiro-Silva, Manuel; Alencastre, Inês S.; Lamghari, Meriem. "Fracture pain—Traveling unknown pathways". *Bone* 85 (2016): 107-114. <http://dx.doi.org/10.1016/j.bone.2016.01.026>.  
Accepted · 10.1016/j.bone.2016.01.026
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Thesis /  
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## Activities

### Oral presentation

	Presentation title	Event name Host (Event location)
2019/07	Vascularized and innervated bone deconstructed on a chip	2nd European Organ-on-Chip Conference (EUROoC 2019) (Graz, Austria)

2019/05	Sympathetic nervous system and inflammation interplay in periprosthetic inflammation	TERMIS-EU 2019 (Rhodes, Greece)
2018/12	Osteoclasts secretome triggers the axonal outgrowth of sensory neurons	1st International Symposium Secretome With]Out[Borders (Braga, Portugal)
2018/12	Osteoclasts secretome triggers the axonal outgrowth of sensory neurons	1st International Symposium Secretome With]Out[ Borders (Braga, Portugal)
2018/05/07	Bio-modeling breast cancer-bone metastases in microfluidic systems: a novel 3D approach	1st 3CCB Meeting (Porto, Portugal)
2017/11	Compartmentalised microfluidic platforms: in vitro tool for peripheral nervous system	World Preclinical Congress (Lisbon, Portugal)
2017/11	The interplay between sympathetic signalling and inflammation in aseptic loosening of hip joint replacement	i3S Annual Meeting 2017 (Povoa de Varzim, Portugal)
2017/06	Neurotrophic potential of Mesenchymal Stem Cells throughout osteoblast differentiation and under different ECM-like microenvironments	Interrogations at the Biointerface, Advanced Summer School: The Research/Clinical Interface at the Spine (Porto, Portugal)
2017/06	"Bio-modeling breast cancer-bone metastases in microfluidic systems: a novel 3D approach"	Interrogations at the Biointerface, Advanced Summer School: The Research/Clinic Interface at the Spine (Porto, Portugal)
2017/06	Axonal outgrowth cues hidden in the osteoclasts secretome	6th Advanced summer school - Interrogations at the Biointerface: The research / clinical interface at the spine (Porto, Portugal)
2017	Neuroskeletal crosstalk in microfluidic platform	Neurofluidics 2017 (Grenoble, France)
2017	Neuro-skeletal network in physiological and pathological conditions	Biospine 2017, 6th International Congress on Biotechnologies for Spinal Surgery (Berlin, Germany)
2016/04/21	Neuropeptide Y Y1 receptor deletion impairs matrix demineralization and resorption	43rd European Calcified Tissue Society Congress (Rome, Italy)
2016	In vivo bone marrow and cytokine dynamics in two experimentally injured tissues	eCM XVII Stem cells, Bone Fixation, Repair & Regeneration

2015	Microfluidic-based coculture platforms to study the innervation of mineralized tissues	Unified scientific approaches towards regenerative orthopaedics and dentistry (REDEOR) (Venice, Italy)
2014/07	A microfluidic co-culture system for the study of orofacial innervation	11th International Conference on Nanosciences & Nanotechnologies (NN14) (Thessaloniki, Greece)
2014	The role of Neuropeptide Y Y1 receptor signalling in fracture healing	41st European Calcified Tissue Society Congress (PRAGUE, Czech Republic)
2014	Neuropeptide Y Y1 receptor antagonism: a novel anabolic tool for bone regeneration	TERMIS EU (GENOVA, Italy)
2013/10	Peripheral nervous system and bone: One scenario, several ways of imaging	Bioimaging 2013 – International symposium in applied bioimaging (Porto, Portugal)
2013/07	Innervation process in bone homeostasis: microfluidics as a tool to understand an essential crosstalk	4th CESB Symposium on Biomaterials in Regenerative Medicine (Sorrento, Italy)
2013/06/30	Peripheral nervous system and bone: Advanced tools to study an essential interaction	XIII Reunião da Sociedade Portuguesa de Neurociências (Luso, Portugal)
2013	Relevance of the osteogenic network in bone remodeling	Meeting on the Epidemiology of Hip Fractures (PORTO, Portugal)
2013	Innervation process in bone homeostasis: microfluidics as a tool to understand an essential crosstalk	4th CESB Symposium on Biomaterials in Regenerative Medicine (SORRENTO, Italy)
2013	Image Flow Cytometry: A New Approach For The Study Of Membrane Receptors	TERMIS 2013-eu (ISTAMBUL, Turkey)
2013	Characterization of an Y1R antagonist as a drug for bone regeneration	European Calcified Tissue Society (ECTS) (Lisboa, Portugal)
2012/09/21	Quantitative method for assessing axonal outgrowth on microfluidic devices	Bioimaging 2012 – International symposium in applied bioimaging (Porto, Portugal)



2012	Bone and peripheral nervous system interactions within bone tissue engineering perspective	3rd TERMIS World Congress (Vienna, Austria)
2012	Nerve regeneration: A process under osteogenic control	ECTS 2012 39th Annual Congress (Stockholm, Sweden)
2012	NPY: a key system in bone regeneration?	I3S Scientific Retreat 2012 (Povoa de Varzim, Portugal)
2012	Bone and peripheral nervous system interactions: Microfluidic chambers as a novel coculture system	I3S Scientific Retreat 2012 (Povoa de Varzim, Portugal)
2011	Anabolic effects induced by oral administration of NPY Y1 receptor antagonist BIBO3304 in mice	XXXI Congresso Nacional de Ortopedia e Traumatologia (Estoril, Portugal)
2011	Y1 receptor antagonism increases bone formation in mice	JBMR Annual Meeting (San Diego, United States)
2011	Altered central and peripheral NPY neuronal expression throughout bone regeneration process	4th New York Skeletal Biology and Medicine Conference (New York , United States)
2011	Neurotrophic potential of osteoblast lineage: osteoblast and sensory neurons coculture	Tissue Engeneering & Regenerative Medicine international society, TERMIS EU 2011 (Granada, Spain)
2011	Role of NPY Y1 receptor signalling blockade on osteoblast activity	XII Meeting Portuguese Society for Neuroscience (Lisbon, Portugal)
2011	Central and peripheral NPY-ergic pathways response to bone injury	XII Meeting of the Portuguese Neuroscience Society (Lisbon, Portugal)
2011	Optimization of a coculture with endothelial and sensory neuronal cells	XII Meeting of the Portuguese Neuroscience Society (Lisbos, Portugal)
2011	Establishment of animal model of non-critical bone defect in mice as tool for bone and nervous system cross-talk	I3S Scientific Retreat (Povoa de Varzim, Portugal)
2011	Optimization of a coculture with endothelial and sensory neuronal cells	I3S Scientific Retreat (Povoa de Varzim, Portugal)
2010	Role of NPY Y1 receptor signalling blockade on osteoblast activity	ANZBMS 20th Annual Scientific Meeting (Adelaide, Australia)

2010	Neuropeptide Y1 receptor signaling blockade modulates osteoblast proliferation and survival	I3S scientific retreat (Povoa de Varzim, Portugal)
2009	Neuropeptide Y stimulates osteoblast proliferation: role of Y1 receptor	10th Advanced Summer Course in Cell-Materials Interactions: from nature to clinics lectures (Porto, Portugal)
2009	Neuronal signaling and the regulation of bone remodeling. New insights into the role of Neuropeptide Y Y1 and Y2 receptors in osteoblast function	11th Meeting Portuguese Society for Neurosciences (Braga, Portugal)
2009	Osteoblast proliferation and apoptosis: role of Neuropeptide Y and Y1 receptor	36th European Symposium on Calcified Tissues (Vienna, Austria)
2008	Neuropeptide Y effect on osteoblast cells	American Society of Bone and Mineral Research (ASBMR) 29th Annual Meeting (Quebec, Canada)
2008	Neuropeptide Y stimulates osteoblast proliferation: role of Y1 receptor	9th Advanced Summer Course in Cell-Materials Interactions: Bioinspired matrices for tissue regeneration (Porto, Portugal)
2006	Leptin Effect on RANKL and OPG Expression in MC3T3-E1 Osteoblasts	American Society of Bone and Mineral Research (ASBMR) 28th Annual Meeting (Philadelphia, United States)
2002	Controlled release of Glucocerebrosidase from alginate beads: Release profiles and uptake by cells from Gaucher disease patients	17th European Conference on Biomaterials (Barcelona, Spain)
2000	Arthrodesis of lumbar spine transverse processes using nacre. Preliminary study	20eme Congrès d'Orthopédie (Martinique, Martinique)
2000	Mode d'action des biphosphonates sur le remodelage osseux.	Workshop "Therapeutical approaches on lysosomal storage diseases" (Porto, Portugal)
1999	Nacre induced bone marrow cells stimulation and new bone formation. An in vivo and in vitro	9th European Meeting on Injectable Bone and Joint Substitution Materials (GRIBOI) (Lausanne, Switzerland)
1998	Régénération osseuse en site vertébral après injection d'un biomatériau, la nacre chez le mouton	6e Journées de l'Institut Européen des Biomatériaux et de Microchirurgie (Nancy)

## Supervision

	Thesis Title Role	Degree Subject (Type) Institution / Organization
2020 - Current	Exploring the interplay between sympathetic nervous system and bone resorption in bone metastasis Co-supervisor of Ana Lúcia Silva Fonseca	Engenharia Biomédica (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2020 - Current	Diagnosing with light: AI-empowered spectroscopy for evaluating clinical biomarkers Co-supervisor of Tatiana Larissa Munengombe Franque Machado	Engenharia Biomédica (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2019 - Current	Marie Curie Fellow: Osteoclasts implications on sensorial nerves sprouting: bone metastatic niche Supervisor of Andrea Bartolin	Engenharia Biomédica (PhD) Universidade do Porto Faculdade de Engenharia, Portugal
2019 - Current	The key role of periostin on bone metastatic niche and sensory neuron crosstalk Co-supervisor	Bioengenharia (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2017 - Current	Uncovering the role of beta-adrenergic signalling on breast cancer bone metastasis: a novel 3D biomodel Supervisor of Francisco Conceição	Ciências Biomédicas (PhD) Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2017 - Current	Exploring mesenchymal stem/stromal cells immunomodulatory potential in intervertebral disc degeneration Co-supervisor	Biotecnologia Molecular e Celular Aplicada às Ciências da Saúde (PhD) Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal Universidade do Porto Faculdade de Farmácia, Portugal
2016 - Current	Microfluidic platforms to uncover the interplay between osteoblast differentiation and the sensory nervous system Supervisor	Ciências Biomédicas (PhD) Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2018 - 2019	The role of osteoclasts in cancer-associated bone pain Co-supervisor	Bioengenharia (Master) Universidade do Porto Faculdade de Engenharia, Portugal Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2011 - 2019	The Neuroimmune Axis in Hip Osteoarthritis and Periprosthetic Inflammation	Medicine (PhD) Universidade do Porto Faculdade de

	Co-supervisor of Manuel Eduardo da Cruz Ribeiro da Silva	Medicina, Portugal
2017 - 2018	Establishment of Tricultures in Microfluidic Platforms Supervisor	Bioengenharia (Master) Universidade do Porto Faculdade de Engenharia, Portugal Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2017 - 2018	Metastatic breast cancer: finding molecular biomarkers in liquid biopsies Co-supervisor	Oncologia (Master) Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2017 - 2018	Novel methodologies to study the crosstalk between neurons and bone using advanced microfluidic platforms containing microelectrodes Co-supervisor	Engenharia Biomédica (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2012 - 2017	Interplay between osteoblasts, osteoclasts and afferent nerves: untying the molecular mechanisms behind the bone innervation Supervisor of Estrela Do Céu Da Costa Neto	Neurosciences (PhD) Universidade do Porto Faculdade de Medicina, Portugal
2012 - 2017	Immune response to biomaterials: modulating inflammation towards improved performance of a medical devices Co-supervisor of Daniel Fernando Marques de Vasconcelos	Biomedical Sciences (PhD) Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2015 - 2016	Modelling breast cancer metastatic bone niche: a novel in vitro 3D microfluidic platform Co-supervisor	Bioengenharia (Master) Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2014 - 2015	The role of Y1 receptor in osteoclastogenesis and bone resorption Supervisor of Francisco Conceição	Bioengenharia (Master) Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2014 - 2015	Evaluation of the effects of NPY Y1R-blockade in osteoblast/osteoclast cell cultures. Co-supervisor	(Master)
2013 - 2014	The communication between injured bone and the hypothalamic neuropeptide y system: the role of the humoral pathway	BIOMEDICAL ENGINEERING (Master) Universidade do Porto Faculdade de Engenharia, Portugal

Co-supervisor of João Pedro Oliveira Martins

2011 - 2012	Design of a Controlled Delivery System to Promote Osteogenesis Co-supervisor of Diana Moreira Leite	Engenharia Biomédica (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2011 - 2012	Role of peripheral nervous system and neuropeptides in the modulation of the inflammatory response associated to osteolysis Co-supervisor	(Master)
2008 - 2012	NPY signalling pathway in bone homeostasis: Y1 receptor as a potential drug target Supervisor of Daniela dos Santos Monteiro e Sousa	Biomedical Engineering (PhD) Universidade do Porto Faculdade de Engenharia, Portugal
2011/01/01 - 2011/06/30	Técnicas e métodos rápidos para detecção de Escherichia coli com base na extracção e detecção da enzima b-glucuronidase Co-supervisor	Bioengenharia (Master) Universidade do Porto Faculdade de Engenharia, Portugal Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2010 - 2011	Analysis of failures in total hip arthroplasties Co-supervisor of Carla Bibiana Monteiro França Santos	Bioengenharia (Master) Universidade do Porto Faculdade de Engenharia, Portugal Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2010 - 2011	Innervation and angiogenesis interactions in bone repair Supervisor	Bioquímica (Master) Universidade do Porto Faculdade de Ciências, Portugal
2009 - 2010	Bone and nervous system interactions: in vitro cocultures comprising osteoblasts and neuronal cells Supervisor of Estrela do Céu da Costa Neto	Engenharia Biomédica (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2006 - 2007	Bone Remodelling: Regulation by Central Nervous System Supervisor of Liliana Sofia Moreira Teixeira	Engenharia Biomédica (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2001 - 2006	Effect of extracellular calcium on osteogenesis through calcium sensing receptor Co-supervisor	Engenharia Biomédica (Master) Universidade do Porto Faculdade de Engenharia, Portugal

## Event organisation

Event name  
Type of event (Role)

Institution / Organization

2017/03/29 - 2017/03/31	Glisten Symposium (2017/03/29 - 2017/03/31) Symposium (President of the Organising Committee)	
2009/06/22 - 2009/06/26	10th Advanced Summer Course in Cell-Materials Interactions - Self-Assembly: From Nature to Clinics (2009/06/22 - 2009/06/26) Workshop (Member of the Organising Committee)	Instituto Nacional de Engenharia Biomédica, Portugal
2008/06/16 - 2008/06/20	9th Advanced Summer Course in Cell-Materials Interactions - Bioinspired Matrices for Tissue Regeneration (2008/06/16 - 2008/06/20) Workshop (Member of the Organising Committee)	Instituto Nacional de Engenharia Biomédica, Portugal
2007/06/18 - 2007/06/22	8th Advanced Course in Cell-Material Interactions "Inflammation in tissue repair and regeneration" (2007/06/18 - 2007/06/22) Workshop (President of the Organising Committee)	Instituto Nacional de Engenharia Biomédica, Portugal
2005/06/20 - 2005/06/24	6th Advanced Course in Cell-Material Interactions (2005/06/20 - 2005/06/24) Workshop (Member of the Organising Committee)	Instituto Nacional de Engenharia Biomédica, Portugal
2004/07/05 - 2004/07/09	5th Advanced Course in Cell-Material Interactions (2004/07/05 - 2004/07/09) Workshop (Member of the Organising Committee)	Instituto Nacional de Engenharia Biomédica, Portugal
2003/06/28 - 2003/07/04	4th Advanced Course in Cell-Material Interactions (2003/06/28 - 2003/07/04) Workshop (Member of the Organising Committee)	Instituto Nacional de Engenharia Biomédica, Portugal
2002/07/01 - 2002/07/05	3rd Advanced Course in Biomaterials (2002/07/01 - 2002/07/05) Workshop (Member of the Organising Committee)	

## Event participation

Activity description  
Type of event

Event name  
Institution / Organization

2016 - 2016	Poster Presentation - "Osteoclasts culture in compartmentalized microfluidic platforms and bone-like	10th World Biomaterials Congress
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mineralized substrates". 10th World Biomaterials Congress 17-22 May 2016; Montreal, Canada.

Congress

2015/04/25 -  
2015/04/28

Poster Presentation - "Design of Nanoparticle-Delivery Systems for Bone Therapies". 4th Joint Meeting of Calcified Tissue Society (ECTS) and the International Bone and Mineral Society (IMBS). Rotterdam, The Netherlands 25 - 28 April 2015.

Meeting

4th Joint Meeting of Calcified Tissue Society (ECTS) and the International Bone and Mineral Society (IMBS)

2015/04/25 -  
2015/04/28

Poster Presentation - "Microfluidic-based co-cultures: an open door to bone innervation studies". 4th Joint Meeting of Calcified Tissue Society (ECTS) and the International Bone and Mineral Society (IMBS). Rotterdam, The Netherlands 25 - 28 April 2015.

Meeting

4th Joint Meeting of Calcified Tissue Society (ECTS) and the International Bone and Mineral Society (IMBS)

2014/07/23 -  
2014/07/25

Poster Presentation - "Sensorial innervation and bone cells: the treasured relation disclosed in microfluidic platforms". Microfluidics 2014 - EMBL Heidelberg, Germany, 23-25 July 2014.

Meeting

Microfluidics 2014

EMBL Heidelberg Genome Biology, Germany

2013/08/25 -  
2013/08/28

Poster Presentation - "Peripheral nervous system and bone: advanced tools to study an essential interaction". Congress of the European Society of Biomechanics, Patras, Greece, 25-28 August 2013.

Congress

Congress of European Society of Biomechanics

European Society of Biomechanics, Belgium

2013/07/15 - 2013/07/16

Poster Presentation - "Microfluidic platform for cocultures: a step forward to understand the bone and peripheral nervous system interactions". EMBO Young Scientists' Forum, July 15-16, 2013; Lisbon, Portugal.

Meeting

EMBO Young Scientists' Forum

2013/06/30 -  
2013/06/30

Poster Presentation - "Peripheral nervous system and bone: Advanced tools to study an essential interaction". XIII Reunião da Sociedade Portuguesa de Neurociências. June 30, 2013; Luso, Portugal.

Meeting

XIII Reunião da Sociedade Portuguesa de Neurociências

2013 - 2013	Poster Presentation - "Characterization of an Y1R antagonist as a drug for bone regeneration", ECTS 2013, Lisbon, Portugal (2013). Congress	ECTS 2013
2012/09/05 - 2012/09/08	"Bone and peripheral nervous system interactions within bone tissue engineering perspective", 3rd TERMIS World Congress 2012, Vienna, Austria, 5-8 September 2012. Congress	3rd TERMIS World Congress 2012 Akademi Manajemen Informatika Dan Komputer Yasika, Indonesia
2012/05/19 - 2012/05/23	Poster Presentation - "Disclosing the underlying interaction between bone and peripheral nervous system: optimization of coculture systems", 39th Annual congress ECTS 2012, Stockholm, Sweden, 19-23 May 2012. Congress	39th Annual congress ECTS 2012
2012/05/10 - 2012/05/11	Poster Presentation - "Therapeutic effects of orally administered Y1 receptor antagonist in bone mass". I3S scientific retreat. May 10-11, 2012; Póvoa do Varzim, Portugal. Meeting	I3S scientific retreat
2012/05/10 - 2012/05/11	Poster Presentation - "Bone and peripheral nervous system interactions: Microfluidic chambers as a novel coculture system", 3rd I3S scientific retreat. Póvoa do Varzim, Portugal. 10-11 May 2012. Meeting	3rd I3S scientific retreat
2012/05/10 - 2012/05/11	Poster Presentation - "Design of a controlled delivery system of a therapeutic agent to promote osteogenesis." 3rd I3S scientific retreat. Póvoa do Varzim, Portugal. 10-11 May 2012. Meeting	3rd I3S scientific retreat
2012/05/10 - 2012/05/11	Poster Presentation - "NPY: a key system in bone regeneration?" 3rd I3S scientific retreat. Póvoa do Varzim, Portugal. 10-11 May 2012. Meeting	3rd I3S scientific retreat
2011/10/19 - 2011/10/21	Poster Presentation - "Osteoblasts lineage enhances neurite outgrowth during bone regeneration", XXXI Congresso Nacional de Ortopedia e Traumatologia, Estoril, Portugal,	XXXI Congresso Nacional de Ortopedia e Traumatologia



October 19-21, 2011.

Congress

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2011/10/19 - 2011/10/21	Poster Presentation - "In vitro characterization of a fluorescent nonpeptide NPY Y1 receptor antagonist as a pharmacological tool for bone regeneration therapies", XXXI Congresso Nacional de Ortopedia e Traumatologia, Estoril, Portugal, October 19-21, 2011.	XXXI Congresso Nacional de Ortopedia e Traumatologia
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Congress

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2011/10/19 - 2011/10/21	Poster Presentation - "Central and peripheral NPY neuronal pathways showed to be affected during bone repair process", XXXI Congresso Nacional de Ortopedia e Traumatologia, Estoril, Portugal, October 19-21, 2011.	XXXI Congresso Nacional de Ortopedia e Traumatologia
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Congress

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2011/09/16 - 2011/09/20	Poster Presentation - "Y1 receptor antagonism increases bone formation in mice", JBMR Annual Meeting, San Diego, USA, September 16-20, 2011."	JBMR Annual Meeting
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Meeting

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2011/06/07 - 2011/06/10	Poster Presentation - "Neurotrophic potential of osteoblast lineage: osteoblast and sensory neurons coculture". Tissue Engeneering & Regenerative Medicine international society, TERMIS EU 2011 Annual Meeting. Granada, June 7-10, 2011.	Tissue Engeneering & Regenerative Medicine international society, TERMIS EU 2011 Annual Meeting
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Meeting

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2011/05/26 - 2011/05/28	Poster Presentation - "Role of NPY Y1 receptor signalling blockade on osteoblast activity. XII Meeting Portuguese Society for Neuroscience. May 26-28, 2011; Lisbon, Portugal".	XII Meeting Portuguese Society for Neuroscience
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Meeting

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2011/05/05 - 2011/05/06	Poster Presentation - "Establishment of animal model of non-critical bone defect in mice as tool for bone and nervous system cross-talk". I3S Scientific Retreat. Póvoa de Varzim, May 5- 6, 2011.	I3S Scientific Retreat
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Meeting

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2011/05/05 - 2011/05/06	Poster Presentation - "Optimization of a coculture with endothelial and sensory neuronal cells". I3S Scientific Retreat. Póvoa de Varzim, May 5-6, 2011.	I3S Scientific Retreat
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Meeting

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2011/04/27 - 2011/04/30	Poster Presentation - "Altered central and peripheral NPY neuronal expression throughout bone regeneration process. 4th New York Skeletal Biology and Medicine Conference. New York, April 27-30, 2011."	4th New York Skeletal Biology and Medicine Conference
Conference		
2011 - 2011	Poster Presentation - "Central and peripheral NPY-ergic pathways response to bone injury". XII Meeting of the Portuguese Neuroscience Society, Lisbon, May 26-28, 2011.	XII Meeting of the Portuguese Neuroscience Society
Meeting		
2011 - 2011	Poster Presentation - "Optimization of a coculture with endothelial and sensory neuronal cells". XII Meeting of the Portuguese Neuroscience Society, Lisbon, May 26-28, 2011.	XII Meeting of the Portuguese Neuroscience Society
Meeting		
2010/09/05 - 2010/09/08	Poster Presentation - "Role of NPY Y1 receptor signalling blockade on osteoblast activity". ANZBMS 20th Annual Scientific Meeting, September 5-8, 2010; Adelaide, Australia.	ANZBMS 20th Annual Scientific Meeting
Meeting		
2010/06/21 - 2010/06/24	"Hypothalamic NPY expression during bone regeneration", Neuropeptides 2010- The 7th Joint Meeting of the European Neuropeptide Club and the American Summer Neuropeptide Conference. Pécs, Hungary. June 21-24, 2010.	7th Joint Meeting of the European Neuropeptide Club and the American Summer Neuropeptide Conference
Conference		
2010/05/06 - 2010/05/07	Poster Presentation - "Neuropeptide Y1 receptor signaling blockbade modulates osteoblast proliferation and survival". I3S scientific retreat. May 6-7, 2010; Póvoa do Varzim, Portugal.	I3S scientific retreat
Meeting		
2009/06/24 - 2009/06/26	Poster Presentation - "Neuropeptide Y stimulates osteoblast proliferation: role of Y1 receptor". 10th Advanced Summer Course in Cell-Materials Interactions: from nature to clinics lectures, June 24-26, 2009; Porto, Portugal.	10th Advanced Summer Course in Cell-Materials Interactions: from nature to clinics lectures
Workshop		

2009/06/04 - 2009/06/06	Poster Presentation - "Neuronal signaling and the regulation of bone remodeling. New insights into the role of Neuropeptide Y Y1 and Y2 receptors in osteoblast function". 11th Meeting Portuguese Society for Neurosciences, June 4-6 2009; Braga, Portugal	11th Meeting Portuguese Society for Neurosciences
Meeting		
2009/05/23 - 2009/05/27	Poster Presentation - "Osteoblast proliferation and apoptosis: role of Neuropeptide Y and Y1 receptor". 36th European Symposium on Calcified Tissues, 23-27 May 2009; Vienna, Austria.	36th European Symposium on Calcified Tissues
Symposium		
2008/09/12 - 2008/09/16	Poster Presentation - "Neuropeptide Y effect on osteoblast cells". American Society of Bone and Mineral Research (ASBMR) 29th Annual Meeting. Montreal, Quebec, Canada, September 12-16,2008.	American Society of Bone and Mineral Research (ASBMR) 29th Annual Meeting
Meeting		
2008/06/16 - 2008/06/20	Poster Presentation - "Neuropeptide Y stimulates osteoblast proliferation: role of Y1 receptor". 9th Advanced Summer Course in Cell-Materials Interactions: Bioinspired matrices for tissue regeneration, June 16-20, 2008; Porto, Portugal.	9th Advanced Summer Course in Cell-Materials Interactions: Bioinspired matrices for tissue regeneration
Workshop		
2006/09/15 - 2006/09/19	Poster Presentation - "Leptin Effect on RANKL and OPG Expression in MC3T3-E1 Osteoblasts". American Society of Bone and Mineral Research (ASBMR) 28th Annual Meeting. Philadelphia, PA, USA, September 15 - 19, 2006.	American Society of Bone and Mineral Research (ASBMR) 28th Annual Meeting
Meeting		
2005/10/25 - 2005/10/29	Poster Presentation - "Recombinant glucocerebrosidase uptake by human osteoblasts". The American Society of Human Genetics, Annual meeting 2005, 25-29 October 2005, Salt Lake city-USA	The American Society of Human Genetics, Annual meeting 2005
Meeting		

### Jury of academic degree

	Theme Role	Candidate name (Type of degree) Institution / Organization
2018/10/15	Establishment of Tricultures in Microfluidic Platforms Supervisor	Miguel Guilherme Linhas Simões (Master) Universidade do Porto Faculdade de

2017/12/06	Integrating xeno-free strategies with spheroid culture for stem-cell based therapies (Thesis) Arguer	Ewa Maria Bauman (PhD) Universidade do Porto Faculdade de Engenharia, Portugal
2017/11/28	Interplay between osteoblasts, osteoclasts and afferent nerves: untying the molecular mechanisms behind the bone innervation Supervisor	Estrela do Céu da Costa Neto (PhD) Universidade do Porto Faculdade de Medicina, Portugal
2015/12/14	Injury of primary afferent neurons associated with experimental osteoarthritis (Thesis) Arguer	Sara Raquel Monteiro da Silva Adães (PhD) Universidade do Porto Faculdade de Medicina, Portugal
2015/10/12	The Role of Y <sup>1</sup> Receptor in Osteoclastogenesis and Bone Resorption Supervisor	Francisco Pereira dos Santos Conceição (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2014/04/21	Nanostructured 3D matrices to direct mesenchymal stem cells behaviour (Thesis) Arguer	Fátima Raquel Azevedo Maia (PhD) Universidade do Porto Faculdade de Engenharia, Portugal
2012/11/13	NPY signalling pathway in bone homeostasis: Y <sup>1</sup> receptor as a potential drug target Supervisor	Daniela dos Santos Monteiro e Sousa (PhD) Universidade do Porto Faculdade de Engenharia, Portugal
2012/10/16	Design of a Controlled Delivery System to Promote Osteogenesis Thesis Member	Diana Moreira Leite (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2012/07/31	Role of Receptor activator of nuclear factor Kappa B ligand (RANKL) in the modulation of osteolysis in Primary and Revision Total Hip Arthroplasty (Thesis) Arguer	Gil Daniel da Costa Machado (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2012/01/20	A novel parathyroid protein in chicken: origin, expression and function (Thesis) Arguer	Pedro Luís Martins de Castro Pinheiro (PhD) Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2011/10/14	The influence of modified chitosan substrates on osteoclastogenesis (Thesis) Main arguer	Ana Luísa Pereira da Silva Torres (Master) Universidade do Porto Faculdade de Engenharia, Portugal

2011/07/11	Analysis of failures in total hip arthroplasties Thesis Member	Carla Bibiana Monteiro França Santos (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2010/11/25	Bone and nervous system interactions: in vitro cocultures comprising osteoblasts and neuronal cells Supervisor	Estrela do Céu da Costa Neto (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2007/12/10	Bone Remodelling: Regulation by Central Nervous System Supervisor	Liliana Sofia Moreira Teixeira (Master) Universidade do Porto Faculdade de Engenharia, Portugal
2006/04/18	Efeito do Cálcio Extracelular na Osteogénese Através do Calcium Sensing Receptor Thesis Member	Leonor Cândida Fernandes Figueira de Noronha (Master) Universidade do Porto Faculdade de Engenharia, Portugal

### Association member

	Society Organization	Role
2011 - Current	Tissue Engineering & Regenerative Medicine International Society (TERMIS)	Member
2011 - Current	AOSpine	Member
2010 - Current	European Calcified Tissue Society (ECTS)	Member
2009 - Current	Sociedade Portuguesa de Neurociencia (SPN)	Member

### Committee member

	Activity description Role	Institution / Organization
2008 - Current	Representative of INEB at IBMC/INEB Associate Laboratory Animal House Organisation Committee (CAB) Advisor / Consultant	Instituto Nacional de Engenharia Biomédica, Portugal
2008 - Current	Representative of INEB at IBMC/INEB Associate Laboratory Animal Ethics committee Advisor / Consultant	Instituto Nacional de Engenharia Biomédica, Portugal

### Course / Discipline taught

	Academic session	Degree Subject (Type)	Institution / Organization
2010 - Current	Teaching in Post-Graduate	Bioengenharia	Universidade do Porto

	Programme - Integrated MSc Course in Bioengineering. Responsible of the module "Reacções Biológicas a Biomateriais e dispositivos médicos"	(Mestrado integrado)	Faculdade de Engenharia, Portugal
2010 - Current	Teaching in Post-Graduate Programmes - Responsible of the module " Reações Biológicas a Biomateriais e Dispositivos Medicos".	Engenharia Biomédica (Doutoramento)	Universidade do Porto Faculdade de Engenharia, Portugal
2011 - 2011	Lecturer in Post-Graduate Programmes - MSc Course in Biochemical technology and Health	Bioquímica em Saúde (Mestrado)	Instituto Politécnico do Porto Escola Superior de Saúde, Portugal
2011 - 2011	Lecturer in Post-Graduate Programmes - Tissue Engineering module of the GABBA Program	Biologia Básica e Aplicada (Doutoramento)	Universidade do Porto Instituto de Ciências Biomédicas Abel Salazar, Portugal
2008 - 2010	Teaching in Post-Graduate Programme - MSc Programme in Biomedical Engineering. Responsible of cell and molecular biology module.	Engenharia Biomédica (Mestrado integrado)	Universidade do Porto Faculdade de Engenharia, Portugal
2008 - 2010	Teaching in Post-Graduate Programme - PhD Programme in Biomedical Engineering. Responsible of cell and molecular biology module.	Engenharia Biomédica (Doutoramento)	Universidade do Porto Faculdade de Engenharia, Portugal
2001 - 2001	Lecturer in Post-Graduate Programmes - Advanced Courses in Cell-Materials Interactions	Advanced Course in Cell-Materials Interactions (Curso de Especialização Tecnológica)	

## Evaluation committee

	Activity description Role	Institution / Organization	Funding entity
2020 - Current	H2020 EU Project Evaluation Evaluator		European Commission, Belgium
2019 - Current	Israel Science Foundation Evaluator		Israel Science Foundation, Israel
2014 - Current	Fundação para a Ciência e Tecnologia Evaluator		Fundação para a Ciência e a Tecnologia, Portugal

## Interview (newspaper / magazine)

	Activity description	Newspaper / Forum
2019	A investigadora do #i3S Meriem Lamghari volta a liderar a equipa portuguesa no âmbito de um grande projeto europeu. Depois de RESTORE e BonepainII, Meriem integra PREMURSA, um projeto destinado à promoção da investigação, inovação e educação na área da medicina personalizada para as doenças músculo-esqueléticas.	Noticias.up.pt
2019	O Instituto de Investigação e Inovação em Saúde (i3S), no Porto, vai liderar um consórcio europeu que visa, com um financiamento de 5,5 milhões de euros, desenvolver "matrizes para reparar defeitos de cartilagem do joelho", revelou hoje a coordenadora Meriem Lamghari.	Diário de Notícias
2019	Consórcio europeu liderado pelo Instituto de Investigação e Inovação em Saúde (no Porto) ganhou financiamento da Comissão Europeia para desenvolver implantes inteligentes para diminuir o aparecimento da osteoartrite.	Público

## Mentoring / Tutoring

	Topic	Student name
2020/02/01 - Current	Post-Doc Researcher	Daniela Pereira de Vasconcelos
2020 - Current	Research trainee	Sofia Pinho
2019 - Current	Research assistant	Ana Carolina Monteiro
2019 - Current	Research assistant	Marina Couto
2018 - Current	Post-Doc Researcher -	Estrela Do Céu Neto
2016 - Current	Post Doc-Researcher	Cecilia Juliana Alves
2013 - Current	Post-Doc Researcher -	Daniela M. Sousa
2010 - 2016	Post-Doctoral Researcher -	Cecilia Juliana Alves
2013 - 2014	Research assistant	Diana Silva

2013 - 2014	Research assistant	Diogo Paramos
2013 - 2014	Research assistant	Diana Silva
2011 - 2014	Post-Doctoral Researcher -	Inês Soares Alencastre
2010 - 2013	Research assistant	António Ribeiro
2010 - 2011	Research assistant	João Ribas
2010 - 2011	Research assistant	Estrela Neto
2008 - 2011	Research assistant	Inês Estevão
2010 - 2010	Research trainee	Nelson José Abreu Domingues
2008 - 2008	Research trainee	Diogo Rodrigues
2002 - 2006	Research trainee	Rafael Guedes de Sousa
2002 - 2006	Research trainee	João Diogo Geada Trigo Calheiros de Figueiredo
2002 - 2006	Research trainee	Marian Teixeira Cerqueira
2002 - 2006	Research trainee	Maria Leonor Miller Fleming
2002 - 2006	Research trainee	Nuno Miguel Guimarães de Sá Camboa
2002 - 2006	Research trainee	Sónia Melo
2002 - 2006	Research trainee	Ligia Tavares
2002 - 2004	Research assistant	Susana Carrilho

## Distinctions

### Award

2015	ECTS-IBMS Travel Grant - (Co-authorship) European Calcified Tissue Society, United Kingdom
2015	EMBO short term fellowship (ASTF 141-2015) - Co-authorship Gesellschaft zur Förderung der Lebenswissenschaften Heidelberg GmbH, Germany
2014	New Investigator Award - "The role of Neuropeptide Y Y1 receptor signalling in fracture healing" - Co-authorship European Calcified Tissue Society, United Kingdom



2013	Best Oral Presentation - Award at Bioimaging 2013: International symposium in applied bioimaging from molecule to man - (Co-authorship)
2013	ImmunoTools Award 2013 (Co-authorship) ImmunoTools, Germany
2012	Travel award - Award by the European Science Foundation in the framework of the project REMEDIC. EC Neto, P Aguiar, R Almeida and M Lamghari. Quantitative method for assessing axonal outgrowth on microfluidic devices. Bioimaging 2012 - (Co-authorship) European Science Foundation, France
2012	Best Poster "Regeneration, Bio-Imaging and Signals" - ( Co-authorship) Universidade do Porto Instituto de Investigação e Inovação em Saúde, Portugal

### Other distinction

2014	Publication selected as an Integrative Biology HOT Article - Neto E, et al 2014. Bone and Sensory Neurons: Close Partners in a Microfluidic Platform
2014	European Molecular Biology Laboratory (EMBL) an EMBL Advanced Training Centre Corporate Partnership Programme Fellowship- E-Neto participation in Conference Series Microfluidics 2014 (23-25 July 2014, Heidelberg, Germany)