

# Soft and Biofunctional Materials Group

Team responsible: Prof. Maria Helena Godinho



## Scientific Areas

Liquid crystals

Nano/Cellulosic systems

Polymeric based composites

Elastomers

Biological systems

Nuclear Magnetic Resonance (NMR)

Rheology (Rheo)

Rheo-NMR

Computational fluid dynamics

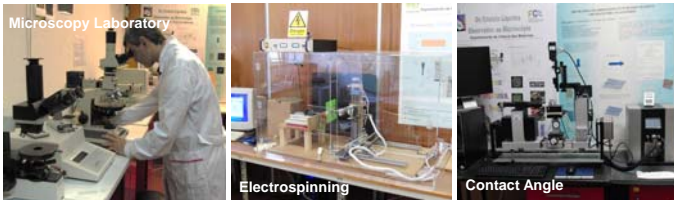
Luis Aguirre, PhD  
Ana Almeida, Grant Holder  
Pedro Almeida, PhD  
Ana Baptista, PhD Student  
João P. Borges, PhD  
João Canejo, PhD  
Alexandra Carvalho, PhD

Maria T. Cidade, PhD  
Paulo Duarte, PhD Student  
Coro Echeverría, PhD  
Susete Fernandes, PhD  
Gabriel Feio, PhD  
José Ferreira, PhD  
Yong Geng, PhD  
Maria H. Godinho, PhD

Augusta Gonçalves, Technician  
Sumita Goswami, Grant Holder  
Célia Henriques, PhD  
Carlos João, PhD Student  
M. Carmo Lança, PhD  
Catarina Leal, PhD  
Assis F. Martins, PhD  
Ana S. Pedrosa, PhD Student

Cláudia Ranito, PhD Student  
Ana Catarina Santos, PhD Student  
André Silva, PhD  
Jorge Silva, PhD  
Pedro Silva, PhD Student  
Paula Soares, PhD Student  
Ana C. Trindade, PhD  
Tânia Vieira, PhD Student

## Main Facilities / Equipments



## Running Projects

**NMP/FP7/2012/NMP/ENV/ENERGY/ICT/EeB SMARTBLIND** - Novel Materials for Smart Windows Conceived as Affordable Multifunctional Systems Offering Enhanced Energy Control (WP2 responsible M.H. Godinho)

**Project 441.00 INDIA** Nano and Micro Cellulosic Springs for Electro-Mechanic Sensors. (PI: M.H. Godinho)

**Project FCT/CAPEIS 2014-2015 4.4.1.00 Brazil** Micro/Nano Wrinkled Magnetic Janus Particles (PI: M.H. Godinho)

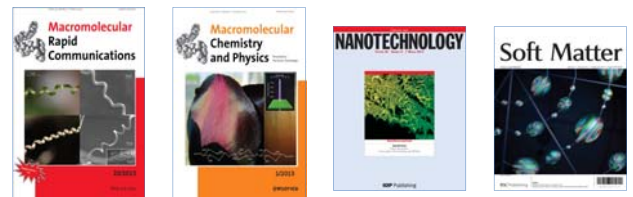
**Ministry of Economy of Spain, Nacional Research Program, Societal Challenges, Ref. CTM2013-45775** Efficiency and environmental impact of nanomaterials used for water treatment and reuse – NanoAcqua (PT Coordinator: João Paulo Borges)

**PTDC/CTM-POL/1484/2012** New cellulosic meshes built up from micro/nanofibers designed for oil/water separation (PI: M.H. Godinho)

**QREN n. 38996** PolarBone - Novos substitutos ósseos sintéticos baseados em fosfato de cálcio polarizados electricamente (PI: M.C. Lança)

**QREN n. 34169** Design of New Cellulose Materials for Advanced Applications Development (PI: M.H. Godinho)

## Recent Publications

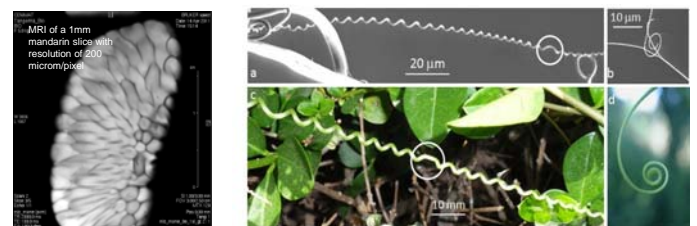


## International Collaborations

Liquid Crystal Institute, Kent, USA  
Universidade Estadual de Viçosa, Brasil  
Universidade Federal de Campina Grande, Brasil  
Universidade de São Paulo, Brasil  
University of Cambridge, UK  
Max Planck Institute for Polymer Research, Germany  
University of Southampton, UK  
Osaka Sangyo University, Japan  
Indian Association for the Cultivation of Science, India  
Universidade Federal de Santa Catarina, Brazil  
Air Force Office of Scientific Research,  
United States Air Force Research Laboratory  
Harvard University  
Institut "Jožef Stefan", Ljubljana, Slovenia  
University of Basque Country, Spain  
University of Huelva, Spain  
University of Alcalá, Spain  
Faculté des Sciences de Bizerte, Tunisia



- A.P. Duarte, J.F. Coelho, J.C. Bordado, M.T. Cidade, M.H. Gil, *Progress in Polymer Science*, 37(8), 1031 (2012). (IF: 26.38)
- J.P. Canejo, J.P. Borges, M.H. Godinho, P. Brogueira, P.I.C. Teixeira, E.M. Terentjev, *Advanced Materials*, 20(24), 4821 (2008). (IF: 14.8)
- M. Bárbara, A.F. Martins, M.L. Corvo, P. Marcelino, H.S. Marinho, G. Feio, A. Carvalho, *Nanomedicine: Nanotechnology, Biology, and Medicine*, 10, 207 (2014). (IF: 7.647)
- A.C. Trindade, J.P. Canejo, P. Patrício, P. Brogueira, P.I.C. Teixeira, M.H. Godinho, *Journal of Materials Chemistry*, 22(41), 22044 (2012). (IF: 6.101)
- S. Kundu, G. Feio, L.F.V. Pinto, P.L. Almeida, J.L. Figueirinhas, M.H. Godinho, *Macromolecules*, 43(13), 5749 (2010). (IF: 5.5)
- A.C. Trindade, J.P. Canejo, L.F.V. Pinto, P. Patrício, P. Brogueira, P.I.C. Teixeira, M.H. Godinho, *Macromolecules*, 44(7), 2220 (2011). (IF: 5.5)
- A.C. Baptista, J.I. Martins, E. Fortunato, R. Martins, J.P. Borges, I. Ferreira, *Biosensors & Bioelectronics*, 26(5), 2742 (2011). (IF: 5.389)
- A.C. Trindade, J.P. Canejo, P.I.C. Teixeira, P. Patrício, M.H. Godinho, *Macromolecular Rapid Communications*, 34(20), 1589 (2013). (IF: 4.9)
- P.I. Soares, I.M. Ferreira, R. Igreja, C.M. Novo, J.P. Borges, *Recent Patents on Anti-Cancer Drug Discovery*, 7(1), 64 (2012). (IF: 4.82)
- P.J. Salústio, G. Feio, J.L. Figueirinhas, J.F. Pinto, H.M. Cabral Marques, *European Journal of Pharmaceutics and Biopharmaceutics*, 71(2), 377 (2009). (IF: 4.689)



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