

# CATARINA DA COSTA MOURA, MSc, PhD

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## Professional Experience

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- **Research Fellow** January 2019 – *ongoing*  
INL, International Iberian Nanotechnology Laboratory – Braga, Portugal  
Lead PI: Dr Pieter De Beule  
Project: *'Simultaneous Advanced Microscopy (SAM)'*
- **Research Fellow** April 2018 – August 2018  
Centre for Human Development, Stem Cells and Regeneration, Institute of Developmental Sciences – Southampton, UK  
Lead PI: Prof Richard OC Oreffo  
Project: *'Development of innovative osseointegrative orthopaedic implants using nanoclay templates'*
- **Doctoral College Intern** March 2018 – May 2018  
University of Southampton – Southampton, UK  
Line manager: Jo James  
Project: to support the Doctoral College with the development and delivery of the 2018 Festival of Doctoral Research. The annual Festival brings together the doctoral community to highlight their contribution and celebrate their impact, both on the University and on the outside world.
- **PhD Researcher** September 2014 – March 2018  
Institute for Life Sciences, University of Southampton – Southampton, UK  
Supervisors: Prof Sumeet Mahajan, Prof Richard Oreffo and Dr Rahul Tare  
Project: *'Multimodal label-free imaging to study skeletal stem cells and skeletal regeneration'*
- **Research Assistant** May 2014 – September 2014  
REQUIMTE, Faculty of Pharmacy of University of Porto – Porto, Portugal  
Supervisors: Prof José Costa Lima, Prof Salette Reis and Dr Cláudia Nunes  
Project: *'Design, synthesis and characterisation of a dual-targeting delivery system based on PEGylated liposomes'*
- **Visiting Researcher** September 2013 – April 2014  
REQUIMTE, Faculty of Pharmacy of University of Porto – Porto, Portugal  
Supervisors: Prof Salette Reis and Prof Bruno Sarmento  
Project: *'Development of a HPLC method for uptake studies of methotrexate-loaded polymeric nanoparticles in cell-based experiments'*
- **MSc research thesis in BioEngineering** October 2012 – July 2013  
INEB – Instituto de Engenharia Biomédica – Porto, Portugal  
Supervisors: Prof Bruno Sarmento and Prof Salette Reis  
Project: *'Development of multifunctional nanoparticles for targeted therapy and imaging of rheumatoid arthritis'*

## Education

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- **Doctor of Philosophy, PhD** September 2014 – July 2018  
**'Multimodal label-free imaging to study skeletal stem cells and skeletal regeneration'**  
School of Chemistry, University of Southampton – Southampton, UK
- **Master of Science, MSc in Bioengineering** September 2008 – July 2013  
Faculty of Engineering of University of Porto & Institute of Biomedical Sciences Abel Salazar – Porto, Portugal
- **Secondary School Degree in Sciences and Technology** September 2005 – July 2008  
Escola Secundária Ferreira de Castro – Oliveira de Azeméis, Portugal
- **Comenius Exchange Programme** March 2007 – April 2007  
Secondary School of Mathematics Ivan Vazov – Dimitrovgrad, Bulgaria

## Teaching Experience

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- **Demonstrator** 2016/2017  
**Engineering Replacement Body Parts (UOSM2031)**  
Faculty of Engineering and the Environment, University of Southampton – Southampton, UK
- **Demonstrator** 2015/2016  
**Fundamentals of Physical Chemistry I (CHEM1033)**  
School of Chemistry, Faculty of Natural and Environmental Sciences, University of Southampton – Southampton, UK

## Supervision of Scientific Work

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- Ali Laham – ‘Chemistry Advanced Research Project (CHEM6090)’, School of Chemistry, Faculty of Natural and Environmental Sciences, University of Southampton, UK, 29.09.2016-17.06.2017.  
Main supervisor: Dr Sumeet Mahajan
- Kyan Koranteng – ‘Chemistry Research Project (CHEM3012)’, School of Chemistry, Faculty of Natural and Environmental Sciences, University of Southampton, UK, 01.10.2015-25.04.2016.  
Main supervisor: Dr Sumeet Mahajan
- João Pedro Albuquerque e Costa – ‘MSc Dissertation’, Integrated Master in Bioengineering, Faculty of Engineering of University of Porto, Portugal. “Development of multifunctional solid lipid nanoparticles for theranostic applications in rheumatoid arthritis”, 02.09.2013-18.07.2014.  
Main supervisors: Prof Salette Reis and Prof Bruno Sarmento

## Publications

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### *Papers in international peer-reviewed journals*

8. **Catarina Costa Moura**, Konstantinos N Bourdakos, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan. “Three-dimensional, non-destructive, live-cell imaging of bioengineered cartilage tissue using multimodal non-linear microscopy”, 2018, submitted
7. **Catarina Costa Moura**, Stuart A Lanham, Tual Monfort, Konstantinos N Bourdakos, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan. “Quantitative temporal interrogation in 3D of bioengineered human cartilage using multimodal label-free imaging”, Integrative Biology (Q1), 2018. doi: 10.1039/C8IB00050F
6. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan. “Raman spectroscopy and coherent anti-Stokes Raman scattering imaging: prospective tools for monitoring skeletal cells and skeletal regeneration”, Journal of the Royal Society Interface (Q1), 2016. 13(118): pii 20160182. doi: 10.1098/rsif.2016.0182
5. José Lopes-de-Araújo, Ana Rute Neves, Virgínia M. Gouveia, **Catarina C. Moura**, Cláudia Nunes, Salette Reis. “Oxaprozín-loaded lipid nanoparticles towards overcoming NSAIDs side effects”, Pharmaceutical Research (Q1), 2016. 33(2): p. 301-314. doi: 10.1007/s11095-015-1788-x
4. **Catarina Costa Moura\***, Justyna P Smus\*, Emma McMorrow, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan. “Tracking adipogenic differentiation of skeletal stem cells by label-free chemically selective imaging”, Chemical Science (Q1), 2015. 6: p. 7089-7096. doi: 10.1039/C5SC02168E
3. João Albuquerque, **Catarina Costa Moura**, Salette Reis, Bruno Sarmento. “Rheumatoid arthritis: a theranostic approach using multifunctional solid lipid nanoparticles”, Molecules (Q2), 2015. 20(6): p. 11103-11118. doi: 10.3390/molecules200611103
2. Maria Filipa Pinto, **Catarina Costa Moura**, Cláudia Nunes, Marcela A Segundo, Sofia A Costa Lima, Salette Reis. “A new topical formulation for psoriasis: development of methotrexate-loaded nanostructured lipid carriers”, International Journal of Pharmaceutics (Q1), 2014. 477(1-2): p. 519-526. doi: 10.1016/j.ijpharm.2014.10.067
1. **Catarina Costa Moura**, Marcela A Segundo, José das Neves, Salette Reis, Bruno Sarmento, “Co-association of methotrexate and SPIONs into anti-CD64 antibody-conjugated PLGA nanoparticles for a theranostic application”, International Journal of Nanomedicine (Q1), 2014. 9(1): p. 4911-4922. doi: 10.2147/IJN.S68440

### ***Abstracts in conference proceedings***

2. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *"Non-destructive techniques to follow skeletal stem cell development for skeletal repair and regeneration"*. European Cells & Materials, 2016. Annual meeting of the Tissue and Cell Engineering Society, Vol. 31, Suppl. 1, p. 248.
1. **Catarina Costa Moura**, Justyna P Smus, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *"Assessing early skeletal stem cell differentiation into adipocytes using coherent anti-Stokes Raman scattering microscopy"*. European Cells & Materials, 2015. Annual meeting of the Tissue and Cell Engineering Society, Vol. 29, Suppl. 3, p. 6.

### ***Book Chapters***

1. Fernanda Andrade, **Catarina Moura**, Bruno Sarmento, *"Pulmonary delivery of biopharmaceuticals"*, in Mucosal Delivery of Biopharmaceuticals: Biology, Challenges and Strategies, edited by José das Neves and Bruno Sarmento, Springer-Verlag, 2014. p. 169–195. doi: 10.1007/978-1-4614-9524-6\_7

### ***Theses***

- Catarina da Costa Moura (2018) *"Multimodal label-free imaging to study skeletal stem cells and skeletal regeneration"*, University of Southampton, Faculty of Natural and Environmental Sciences, **PhD Thesis**.
- Catarina da Costa Moura (2013) *"Development of multifunctional nanoparticles for targeted therapy and imaging of rheumatoid arthritis"*, MSc in Bioengineering – Biomedical Engineering, Faculty of Engineering, University of Porto, Portugal, **MSc Thesis**.

### **Communications**

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#### ***Oral communications***

10. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *"Non-invasive live-cell 3D imaging of bioengineered cartilage"*, British Biophysical Society BBS Annual Meeting 2018, 11-13 July 2018, Southampton, UK.
9. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *"Multimodal label-free imaging to understand skeletal stem cell development and skeletal tissue repair and regeneration"*, invited by Prof Peter Gilch to give a seminar at the University of Dusseldorf, 20 July 2017, Dusseldorf, Germany.
8. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *"Raman spectroscopy and multimodal non-Linear imaging of tissue-engineered cartilage using human skeletal stem cells"*. 9<sup>th</sup> International Conference on Advanced Vibrational Spectroscopy – ICAVS9, 11-16 June 2017, Victoria BC, Canada.
7. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *"Non-linear multimodal imaging for skeletal stem cell characterisation"*. Focus on Microscopy 2017, 9-12 April 2017, Bordeaux, France.
6. **Catarina Costa Moura**, *"Following skeletal stem cell differentiation using non-invasive imaging techniques"*. Centre for Human Development, Stem Cells and Regeneration Seminar Series, 23 January 2017, University of Southampton, UK.
5. **Catarina Costa Moura**, *"Multimodal label-free imaging techniques for skeletal stem cell characterisation"*. PGR Bioengineering Seminar, 23 November 2016, Engineering and the Environment, University of Southampton, UK.
4. **Catarina Costa Moura**, *"Tracking differentiation of skeletal stem cells using label-free imaging"*. Centre for Human Development, Stem Cells and Regeneration Seminar Series, 22 February 2016, Southampton, UK.
3. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *"Multimodal label-free imaging for stem cell plasticity and skeletal regeneration"*. ECTS PhD Training Course 2015, 13 – 16 September 2015, Certosa di Pontignano, University of Siena, Tuscany, Italy.
2. **Catarina Costa Moura**, Justyna P Smus, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *"Assessing early skeletal stem cell differentiation into adipocytes using coherent anti-Stokes Raman scattering microscopy"*. TCES 2015 – Tissue and Cell Engineering Society, 19 – 21 July 2015, Southampton, UK.
1. **Catarina Moura**, José das Neves, Salette Reis, Bruno Sarmento, *"Macrophage-targeted nanoparticles: a novel approach towards rheumatoid arthritis theranostics"*. 7<sup>th</sup> Meeting of Young Researchers of the University of Porto, 12 – 14 February 2014, Porto, Portugal.

## ***Poster communications***

16. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“Temporal investigation of tissue-engineered cartilage from human fetal skeletal progenitor cells using multimodal label-free imaging”*. Bone Research Society BRS Annual Meeting 2018 2018, 27-29 June 2018, Winchester, UK.
15. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“Multimodal non-invasive imaging of tissue-engineered cartilage using human skeletal stem cells”*. Southampton Medical and Health Research Conference 2018, 6-7 June 2018, Southampton, UK.
14. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“Imaging tissue-engineered cartilage using multimodal non-invasive microscopy”*. Doctoral Research Showcase 2018, 16 May 2018, Southampton, UK.
13. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“Non-destructive imaging of skeletal repair and regeneration”*. Institute of Developmental Sciences 10 Years of Excellence in Research Conference, 8 November 2017, Southampton, UK.
12. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“Non-destructive imaging of skeletal repair and regeneration”*. Institute for Life Sciences Poster Session, 13 October 2017, Southampton, UK.
11. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“Non-destructive imaging of skeletal repair and regeneration”*. Respiratory Research & Imaging Research Poster Session, 2 December 2016, Southampton, UK.
10. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“Assessing bone stem cell differentiation using label-free techniques”*. Nanospectroscopy & Bio-Imaging Conference, 13 – 14 October 2016, Coventry, UK. \*oral flash presentation
9. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“Non-destructive techniques for skeletal repair and regeneration”*. Chemistry Poster Day 2016, organised by the Faculty of Natural and Environmental Sciences, University of Southampton, 29 September 2016, Southampton, UK.
8. **Catarina Costa Moura**, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“Non-destructive techniques to follow skeletal stem cell development for skeletal repair and regeneration”*. TERMIS-EU 2016 – European Chapter Meeting of the Tissue Engineering and Regenerative Medicine International Society, 28 June – 1 July 2016, Uppsala, Sweden.
7. **Catarina Costa Moura**, *“Assessing bone stem cell differentiation using chemical imaging”*. SET for Britain, 7 March 2016, Houses of Parliament, Westminster, UK.
6. **Catarina Costa Moura**, Justyna P Smus, Emma McMorrow, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“CARS imaging for studying skeletal regeneration”*. Life Technologies Poster Session, 11 December 2015, Southampton, UK.
5. **Catarina Costa Moura**, Justyna P Smus, Emma McMorrow, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“Multimodal label-free imaging for stem cell plasticity and skeletal regeneration”*. Institute for Life Sciences Poster Session, 16 October 2015, Southampton, UK.
4. **Catarina Costa Moura**, Justyna P Smus, Emma McMorrow, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“CARS imaging for skeletal regeneration”*. Nanospectroscopy & Bio-Imaging Conference, 14 – 15 October 2015, Coventry, UK. \*oral flash presentation
3. **Catarina Costa Moura**, Justyna P Smus, Rahul S Tare, Richard OC Oreffo, Sumeet Mahajan, *“CARS: label-free imaging for skeletal regeneration”*. CLIRSPEC 2015 Summer School – Clinical Infrared and Raman Spectroscopy, 7 – 10 July 2015, Lake Windermere, UK.
2. **Catarina Moura**, José das Neves, Salette Reis, Bruno Sarmento, *“Targeted nanoparticles for combined drug therapy and imaging of rheumatoid arthritis”*. 10<sup>th</sup> International Conference on Biological Barriers, 16 – 21 February 2014, Saarbrücken, Germany.
1. **Catarina Moura**, José das Neves, Salette Reis, Bruno Sarmento, *“Development of multifunctional nanoparticles for targeted imaging and therapy of rheumatoid arthritis”*. V Symposium on Bioengineering, 15 – 16 November 2013, Porto, Portugal.

## Awards

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### *Merit Awards*

- **Hans Schuppe Prize 2018.** Awarded to Catarina Costa Moura, by the School of Biomedical Sciences, University of Southampton.  
(<https://www.southampton.ac.uk/chdscr/news/2018/10/hans-schuppe-prize-2018.page>)
- **9<sup>th</sup> place award at the 2017 International Nikon Small World Photomicrography competition.** Awarded to Catarina Costa Moura by the Nikon's Small World, on the 4<sup>th</sup> October 2017.  
(<https://www.southampton.ac.uk/ifls/news/2017/10/10-image-of-distinction-award.page>  
& image awarded: <http://www.nikonsmallworld.com/galleries/entry/2017-photomicrography-competition/9>)
- **Image of Distinction award at the 2017 International Nikon Small World Photomicrography competition.** Awarded to Catarina Costa Moura by the Nikon's Small World, on the 4<sup>th</sup> October 2017.  
(<https://www.southampton.ac.uk/ifls/news/2017/10/10-image-of-distinction-award.page?>  
& image awarded: <http://www.nikonsmallworld.com/galleries/entry/2017-photomicrography-competition/72>)
- **Third Prize at the Grand Micrograph & Movie Competition 2016.** Awarded to Catarina Costa Moura, by the Biomedical Imaging Unit, on the 21<sup>st</sup> December 2016 (Southampton, UK).  
(<https://www.southampton.ac.uk/chdscr/news/2016/12/imaging-competition.page>)
- **Morale-Builder Award.** Awarded to Catarina Costa Moura, by the "Bringing Research to Life" University of Southampton Roadshow, in the Roadshow Awards Ceremony 2016 (Southampton, UK).
- **Honourable Mention to FedOx** (Catarina Costa Moura, Miguel Xavier, Antonio de Grazia, Gianluca Cidonio and Estrela Neto) at the Final TERMIS-EU 2016 Business Plan Competition, held at the Uppsala Concert and Congress Hall, 29 June 2016, Uppsala, Sweden.  
(<https://www.southampton.ac.uk/ifls/news/2016/07/22-termis-european-finals.page/>)
- **Shortlisted to present a Poster at the SET for Britain 2016 exhibition,** held at the House of Commons – British Parliament, 7 March 2016, Westminster, United Kingdom.  
(<https://www.southampton.ac.uk/chdscr/news/2016/03/set-for-britain.page>)
- **Secondary School Merit and Excellence Award,** in the academic year 2006-2007, awarded by Escola Secundária Ferreira de Castro (Oliveira de Azeméis, Portugal).
- **Secondary School Merit and Excellence Award,** in the academic year 2005-2006, awarded by Escola Secundária Ferreira de Castro (Oliveira de Azeméis, Portugal).

### *Communication Awards*

- **Best Poster Presentation.** Awarded to Catarina Costa Moura for the work "Imaging tissue-engineered cartilage using multimodal non-invasive microscopy", at the Doctoral Research Showcase 2018 (Southampton, UK).  
(<https://www.southampton.ac.uk/chdscr/news/2018/05/doctoral-research-showcase.page>)
- **Best Oral Presentation Award.** Awarded to Catarina Costa Moura for the work "Raman spectroscopy and multimodal non-Linear imaging of tissue-engineered cartilage using human skeletal stem cells" at the 9<sup>th</sup> International Conference on Advanced Vibrational Spectroscopy 2017 (Victoria BC, Canada).  
(<https://www.southampton.ac.uk/chdscr/news/2017/06/catarina-costa-moura.page?>)
- **Best Poster Presentation – People's Choice Award.** Awarded to Catarina Costa Moura for the work "Assessing bone stem cell differentiation using label-free techniques", at the Nanospectroscopy & Bio-Imaging Conference 2016 (Coventry, UK).  
(<https://www.southampton.ac.uk/chdscr/news/2016/11/peoples-choice-award.page>)
- **Second prize for Best Poster Presentation.** Awarded to Catarina Costa Moura for the work "Non-destructive techniques for skeletal repair and regeneration", in the Chemistry Poster Day 2016 organised by the Faculty of Natural and Environmental Sciences, University of Southampton (Southampton, UK).  
(<https://www.southampton.ac.uk/ifls/news/2016/10/3-ifls-student-poster-prize.page>)
- **Best Poster Presentation.** Awarded to Catarina Costa Moura for the work "CARS imaging for skeletal regeneration", at the Nanospectroscopy & Bio-Imaging Conference 2015 (Coventry, UK).  
(<https://www.southampton.ac.uk/chdscr/news/2015/10/catarina-moura.page>)
- **Best Poster Presentation.** Awarded to Catarina Costa Moura for the work "Development of multifunctional nanoparticles for targeted imaging and therapy of rheumatoid arthritis", at the V Symposium on Bioengineering 2013 (Porto, Portugal).

## ***Travel Awards***

- **Travel Grant for presenting at the 9<sup>th</sup> International Conference on Advanced Vibrational Spectroscopy** (Victoria BC, Canada). Awarded to Catarina Costa Moura by the Faraday Division Committee of the Royal Society of Chemistry.  
(<https://www.southampton.ac.uk/ifls/news/2017/05/19-student-prize.page>)
- **BBSRC Innovator of the Year Travel Fund** to attend the 9<sup>th</sup> International Conference on Advanced Vibrational Spectroscopy (Victoria BC, Canada). Awarded to Catarina Costa Moura.
- **Conference Attendance Fund Award to attend Focus on Microscopy 2017** (Bordeaux, France). Awarded to Catarina Costa Moura, by the Faculty of Medicine, University of Southampton.
- **Travel bursary for the European Chapter Meeting of the Tissue Engineering and Regenerative Medicine International Society** – TERMIS-EU 2016 conference (Uppsala, Sweden). Awarded to Catarina Costa Moura, by the TCES – Tissue and Cell Engineering Society.
- **Funding for the TERMIS 2016 Business Plan Competition** (Uppsala, Sweden), awarded to the team FedOx (Catarina Costa Moura, Miguel Xavier, Antonio de Grazia, Gianluca Cidonio and Estrela Neto), by the Institute for Life Sciences.
- **Funding for the TERMIS 2016 Business Plan Competition** (Uppsala, Sweden). Awarded to the team FedOx (Catarina Costa Moura, Miguel Xavier, Antonio de Grazia, Gianluca Cidonio and Estrela Neto), by the Southampton Opportunity Fund.
- **Funding for the TERMIS-EU 2016 Business Plan Competition** (Uppsala, Sweden). Awarded to the team FedOx (Catarina Costa Moura, Miguel Xavier, Antonio de Grazia, Gianluca Cidonio and Estrela Neto), by the Education Enhancement Fund.
- **Travel bursary for the CLIRSPEC 2015 Summer School** (Lake Windermere, UK). Awarded to Catarina Costa Moura, by the Association of British Spectroscopists (ABS) Trust.

## **Science outreach & Organisation of scientific activities**

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- International Women's Day @ Winchester Science Centre (8 March 2018)
- Communications team at Pint of Science festival, Southampton, UK (2018)
- “Meet the Scientist” sessions with LifeLab (from May 2017 onwards)
- STEM Ambassador (from May 2017 onwards)
- “Bringing Research to Life” University of Southampton Roadshow, Cheltenham Science Festival, Cheltenham, United Kingdom (June 2017)
- Event manager at Pint of Science festival, Southampton, UK (2017)
- Science and Engineering Festival, Southampton, United Kingdom (18 March 2017)
- Winchester Science Centre, with the University of Southampton Roadshow, Winchester, United Kingdom (26 October 2016)
- Science Tent @ Green Futures, “Bringing Research to Life” University of Southampton Roadshow, Glastonbury Festival, United Kingdom (21-26 June 2016)
- Science and Engineering Festival, Southampton, United Kingdom (12 March 2016)
- “Bringing Research to Life” University of Southampton Roadshow, The Times Cheltenham Science Festival, Cheltenham, United Kingdom (June 2015)
- Science and Engineering Festival, Southampton, United Kingdom (14 March 2015)
- Engineering Week 2010, University of Porto, Portugal (March 2010)
- University of Porto on Display, Porto, Portugal (March 2010)
- II Symposium on Bioengineering, Porto, Portugal (2009)