

PERSONAL INFORMATION

Gil Alberto Batista Gonçalves



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Sex Male | Date of birth 23/05/1979 | Nationality Portuguese

POSITION

Marie Curie Research Fellow - ICMAB

WORK EXPERIENCE

- Dates (February 2013 – October 2016)

 - Name of institution
 - Type of company or sector
 - Function or cargo occupied

• Main activities and responsibilities
- Research

TEMA -Centre for Mechanical Technology and Automation
 Research Institute
 Post-Doc fellow
 Research on new graphene based materials
 Development of scientific/industrial projects
 Coordination of students
- Dates (June 2005 – June 2008)

 - Name of institution
 - Type of company or sector
 - Function or cargo occupied

• Main activities and responsibilities
- Research

CICECO – Centre for Research in Ceramics and Composite Materials
 Research Institute
 Fellow
 Development of new nanocomposite materials based on cellulose and nanoparticles (TiO₂, ZnO and SiO₂) for packaging materials applications
- Dates (October 2006 – February 2007)

 - Organisation
 - Formative area

• Main activities and responsibilities

 - Localisation
- Formation

FORINO – School for New Technologies
 Quality management - Statistical Control of Quality
 Planning and preparation of course
 Training
 Professional Training Centre Mangualde – 50 hours
 Futurnet Viseu – 50 hours
- Dates (September 2003 – October 2004)

 - Name and address of employer
 - Type of company or sector
 - Function or cargo occupied

• Main activities and responsibilities
- Company management

CANIVIDRO, Lda
 Crystal-wear sector
 Quality management
 Implementation of Quality Management System (ISSO 9001:2000)
 Optimisation of human resources and layout
 Coordination of packing and expedition area
- Dates (October 2002 – July 2003)

 - Name and address of employerr
- Product Quality Control

UNICER ÁGUAS SA – Centro de Produção do Caramulo

- *Type of company or sector* Bottling of Natural Water
- *Function or cargo occupied* Quality Control
- *Main activities and responsibilities* Chemical and bacterial analysis to guaranty the quality of final product

PROFISSIONAL TRAINING

- *Dates (Nov 2014 – Dez 2014)* Training in valorisation of technologies
- *Name of university or institution* INOVA+

- *Dates (Oct 2007 – Mar 2008)* Postgraduate program “Synthesis, properties and applications of polymers” by Prof. Alessandro Gandini
- *Name of university or institution* IDPoR, Research and Development of Polymers from Renewable Resources

- *Dates (Nov 2006 – Mar 2007)* Postgraduate program “Colloids, Surfaces and Interfaces” by Prof. Alessandro Gandini
- *Name of university or institution* IDPoR, Research and Development of Polymers from Renewable Resources

- *Dates (March 2004– May 2004)* Initial Pedagogic Training for Trainers
- *Name of university or institution* CRISFORM (Professional Training Centre for Crystal-wear sector)
- *Final classification* Final average 16 (0-20)

- *Dates (Sept 2003 – Octr 2004)* Training in Hygiene and Labour Security through
- *Name of university or institution* EPAMG (Professional and Artistic School from Marinha Grande)

- *Dates (Sep 2003 – Oct 2004)* Training in Quality Management
- *Name of university or institution* CTCV (Technological Centre of Ceramics and Glass – Coimbra)
- *Name of university or institution* EXERTUS (Advising Company)
- *Name of university or institution* CTCV (Technological Centre of Ceramics and Glass – Coimbra)

- *Dates (Sep 2003 – Oct 2004)* Training in Hygiene and Labour Security through
- *Name of university or institution* EPAMG (Professional and Artistic School from Marinha Grande)

EDUCATION AND TRAINING

- *Dates (Sep 2008 – Oct 2012)* PhD
- *Name of university or institution* University of Aveiro (Portugal)- Mechanical Engineering Department
- *Final theses* Poly(methyl methacrylate) / Hydroxyapatite / Nano-phase: A nanocomposite material for biomedical applications

- *Dates (Oct 2005 – Dec 2007)* EMMS, Joint European Master’s Programme in Materials Science
- *Name of university or institution* University of Aveiro (Portugal), Hamburg University of Technology (Germany), Aalborg University (Denmark)
- *Final theses* Synthesis and characterization of TiO₂/cellulose nanocomposites

- *Dates (Oct 1998 – Sep 2003)* Degree in Management and Industrial Chemistry
- *Name of university or institution* University of Aveiro
- *Final Project* Oxidation with Supported Metaloporphyrins.
- *Final classification* Final average 14 (0-20)

PERSONAL SKILLS

Mother tongue(s) Portuguese

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B1	B1	B1
Replace with name of language certificate. Enter level if known.					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills ▪ good communication skills gained through my experience on oral presentations and communication with other scientists

Research interests My current research is focused on development of novel graphene based nanocomposite materials, specifically on the synthesis, characterization and the study of their properties. The main application fields are:

- Graphene based porous structures for heterogeneous catalysis (**Catalysis**)
- Graphene foams for water purification (**Environment**)
- Three-dimensional graphene foam as a biocompatible and conductive scaffold for biomedical applications (**Biomaterials**)
- SERS active nanostructured substrates based on graphene for selective biomolecules detection and Graphene/Polymer composites for chemical and biological sensors (**Sensors**)
- Graphene Oxide nanoplatfoms development for detection and therapy of cancer cells and tumours (**Therapeutic agent**)
- Hydrogen Storage in Graphene-Based Materials (**Energy**)

Computer skills ▪ good command of Microsoft Office™ tools
▪ chemical and mechanical software

Driving licence ▪ B

ADDITIONAL INFORMATION

Publications

Articles in international reviews

G. Gonçalves, P.A.A.P Marques, T. Trindade; C. Pascoal Neto “Superhydrophobic cellulose nanocomposites” J Colloid Interf Sci, 324 (2008) 42-46.

G. Gonçalves, P.A.A.P Marques, T. Trindade, Ricardo J. B. Pinto, C. Pascoal Neto, “Surface modification of cellulosic fibers for multi-purpose TiO₂ based nanocomposites” Compos Sci Technol, 69 (2009) 1051-1056.

G. Gonçalves, P.A.A.P Marques, T. Trindade, C. Pascoal Neto “Growth, structural and optical characterization of ZnO coated cellulosic fibers” Crystal Growth and Design, 9 (2009) 386-390.

G. Gonçalves, P.A.A.P. Marques, Carlos M. Granadeiro, Helena I.S. Nogueira, M.K. Singh, J. Grácio “Surface modification of graphene nanosheets with gold nanoparticles: the role of oxygen moieties at graphene surface on gold nucleation and growth” Chem Mater, 21 (2009) 4796-4802

M.K. Singh, T. Elby, **G Gonçalves**, P.A.A.P. Marques, B. Igor, A.L. Kholkin and J Gracio,

Atomic-scale observation of rotational misorientation in suspended few-layer graphene sheets, *Nanoscale*, 2 (2010) 700-708

M.K. Singh, J Gracio, Philip Leduc, Paula Gonçalves, Paula Marques, **G Gonçalves**, Filipa Marques, Virgília Silva, Fernando Capela Silva, Joana Reis, José Potes and António Sousa, Integrated Biomimetic carbon nanotube composites for In Vivo systems, *Nanoscale*, 2 (2010), 2855-2863

G Gonçalves, Paula A. A. P. Marques, Ana Barros-Timmons, Igor Bdkin, Manoj K. Singh, Nazanin Emami and José Grácio, Graphene oxide modified with PMMA via ATRP as a reinforcement filler *J. Mater. Chem.*, 20 (2010), 9927-9934

Paula P. Gonçalves, Manoj K. Singh, Virgília S. Silva, Filipa Marques, Ana Marques, Philip R. LeDuc, José Grácio, Paula A. A. P. Marques, **G Gonçalves**, and António C. M. Sousa, Automated high-throughput screening of carbon nanotube-based bio-nanocomposites for bone cement applications, *Pure Appl. Chem.*, 83 (2011), 2063–2069.

G Gonçalves, Sandra M. A. Cruz, A. Ramalho, José Grácio and Paula A. A. P. Marques, Graphene oxide versus functionalized carbon nanotubes as a reinforcing agent in a PMMA/HA bone cement, *Nanoscale*, 4 (2012) 2937-2945

MK Singh, E Titus, R Krishna, **G Goncalves**, PAAP Marques, J Gracio Direct Nucleatio of Silver Nanoparticles on Graphene Sheet, *J. Nanos. Nanotech.* 12 (2012) 6731-6736

PAAP Marques, **G Gonçalves**, MK Singh, J Grácio, Graphene oxide and hydroxyapatite as fillers of polylactic acid nanocomposites: preparation and characterization, *J. Nanos. Nanotech.* 12 (2012) 6686-6692

M. Vila, M.T. Portolés, P.A.A.P. Marques, M.J. Feito, M.C. Matesanz, C. Ramírez-Santillán, **G. Gonçalves**, S.M.A. Cruz, A. Nieto-Peña, M. Vallet-Regi Cell uptake survey of pegylated nano graphene oxide, *Nanotechnology* 23 (2012) 465103

Carlos M. Granadeiro, Sandra M.A. Cruz, G Gonçalves, PAAP Marques, Pedro M.F.J. Costa, Rute A. Sá Ferreira, Luís D. Carlos, Helena I.S. Nogueira, Photoluminescent bimetallic-3-hydroxypicolinate/graphene oxide nanocomposite, RSC Adv. 2 (2012) 9443-9447

M.C. Matesanz, M. Vila, M.J. Feito, J. Linares, G. Gonçalves, M. Vallet-Regi, P.A. Marques, M.T. Portolés, Graphene oxide nanosheets localized on F-actin filaments induce cell cycle alterations in different cell types. Biomaterials, 34 (2013) 1562-1569

G. Gonçalves, M. T. Portolés, Cecilia Ramírez-Santillán, M. Vallet-Regí, Ana Paula Serro, J. Grácio, P.A. A. P. Marques, Evaluation of the in vitro biocompatibility of PMMA/high-load HA/carbon nanostructures bone cement formulations. *J. Mater. Sci. Mater. Med.*, 24 (2013) 2787-96

M. Vila, M.C. Matesanz, G. Gonçalves, M.J. Feito, J. Linares, P.A.A.P. Marques, M.T. Portolés, M. Vallet-Regi, Triggering cell death by nanographene oxide mediated hyperthermia, Nanotechnology, 25 (2014) 035101

Gil Gonçalves, Sónia M.G. Pires, Mário M.Q. Simões, M. Graça P.M.S. Neves, Paula A.A.P. Marques Three-dimensional graphene oxide: A promising green and sustainable catalyst for oxidation reactions at room temperature *Chem. Commun.*, 50 (2014) 7673.

J. Linares, M.C. Matesanz, M. Vila, M.J. Feito, G. Gonçalves, M. Vallet-Regi, P.A.A.P. Marques, M.T. Portolés, Endocytic mechanisms of graphene oxide nanosheets in osteoblasts, hepatocytes and macrophages, ACS Applied Materials & Interfaces, 6 (2014) 13697.

M.J. Feito; M. Vila; M.C. Matesanz, J. Linares, G Gonçalves, P.A.A.P. Marques, M. Vallet-Regí, J.M. Rojo, M.T. Portolés, In vitro evaluation of immune response to graphene oxide nanosheets, J. Colloid Interface Sci, 432 (2014) 221

Gil Gonçalves, Mercedes Vila, Igor Bdkin, Alicia de Andrés, Nazanin Emami, Rute A. S. Ferreira, Luís D. Carlos, José Grácio, Paula A. A.P. Marques, Breakdown into nanoscale of graphene oxide: Confined hot spot atomic reduction and fragmentation. *Sci. Reports* 4 (2014) 6735 (doi:10.1038/srep06735)

- Nélia Alberto, César Vigário, Daniel Duarte, Nuno A.F. Almeida, **Gil Gonçalves**, João L Pinto, P.A.A.P. Marques, Rogério N Nogueira, Victor Neto. *Characterization of graphene oxide coatings onto Optical Fibers for Sensing Applications Materials Today: Proceedings 12/2015 (doi: 10.1016/j.matpr.2015.04.019)*
- Bruno Henriques, **Gil Gonçalves**, Nazanin Emami, Eduarda Pereira, Mercedes Vila, Paula A. A. P. Marques, *Optimized graphene oxide foam with enhanced performance and high selectivity for mercury removal from water. J Hazard Mater. 301 (2016) 453.*
- Maryam Salimian, Maxim Ivanov, Francis Leonard Deepak, Dmitri Y. Petrovykh, Igor Bdikin, Marta Ferro, Andrei Kholkin, Elby Titus and **Gil Gonçalves**, *Synthesis and characterization of reduced graphene oxide/spiky nickel nanocomposite for nanoelectronic applications. J. Mater. Chem. C 3 (2015) 11516.*
- André F Girão, **Gil Gonçalves**, Kulraj S Bhangra, James B Phillips, Jonathan Knowles, Gonzalo Irurueta, Manoj K Singh, Igor Bdkin, António Completo, Paula AAP Marques, *Electrostatic self-assembled graphene oxide-collagen scaffolds towards a three-dimensional microenvironment for biomimetic applications RSC Advances 6 (54), 49039-49051*
- Olena Okhay, **Gil Gonçalves**, Alexander Tkach, Catarina Dias, Joao Ventura, Manuel Fernando Ribeiro da Silva, Luís Miguel Valente Gonçalves, Elby Titus, *Thin film versus paper-like reduced graphene oxide: Comparative study of structural, electrical, and thermoelectrical properties, Journal of Applied Physics 120 (5), 051706.*
- Reviews **G. Gonçalves**, M. Vila, M. T. Portolés, M. Vallet-Regí, J. Gracio, P. A.A.P. Marques, *Nano-Graphene Oxide: a potential platform for multifunctional cancer therapy. Adv. Heatl. Mater. 2 (2013) 1072*
- Sandra M. A. Cruz, André F. Girão, **Gil Gonçalves**, Paula A. A. P. Marques, *Graphene: The Missing Piece for Cancer Diagnosis? Sensors 16(1) (2016) 137*
- Patent Three-dimensional graphene oxide structures with high selectivity for removing Hg from waste waters (Patent 108.061)
- Chapter book Paula Marques, **G Gonçalves**, Sandra Cruz, Nuno Almeida, Manoj Singh, José Grácio and António Sousa (2011). *Functionalized Graphene Nanocomposites, Advances in Nanocomposite Technology*, Abbass Hashim (Ed.), ISBN: 978-953-307-347-7, InTech, Available from: <http://www.intechopen.com/articles/show/title/functionalized-graphene-nanocomposites>
- PAAP Marques, Nuno Almeida, Patricia Silva, **Gil Gonçalves** (2015). *Surface modification of natural and synthetic polymeric fibers for TiO₂ based nanocomposites*, Wiley VCH, Germany
- André F. Girão, Susana Pinto, Ana Bessa, **Gil Gonçalves**, Bruno Henriques, Eduarda Pereira and Paula A. A. P. Marques*. *Graphene oxide: a unique nano-platform to build advanced multifunctional composites (2016)*. In *Advanced 2D Materials*, WILEY-Scrivener Publishing, USA, ISBN: 978-1-119-24249-9
- Presentations
- Oral communications M. Neves, O. Monteiro, P. Marques, **G. Gonçalves**, R. Pinto, C. Pascoal Neto, T. Trindade. "Growth of nanophase semiconductors on surface modified cellulosic fibers", IX Congresso Nacional de Materiales 20-22 June de 2006, Vigo, Espanha.
- P.A.A.P. Marques, **G. Gonçalves**, R Pinto, T Trindade, Carlos P. Neto. "Hybrids of Cellulose Fibres and Mineral Nanoparticles: Synthesis, Characterization and Potential Applications", ISWFPC (Durban, Africa do Sul, 2007).
- G. Gonçalves**, Paula A.A.P. Marques, Manoj K. Sing, José Grácio "Novel PLLA/hap/graphene Nanocomposite for bone implants", 15th International Conference on Composite Structures ICCS 15, 15-17 June 2009, Porto, Portugal.
- G Gonçalves**, Paula A.A.P. Marques, Manoj K. Singh, Filipa Marques, Virgília Silva, Paula

Gonçalves e José Grácio Bionanocompositos de PMMA reforçados com nanoestruturas de carbono para implantes ortopédicos, Encontro Nacional de Materiais e Estruturas Compósitos ENMEC2010, 6-8 September 2010, Porto, Portugal

P.A.A.P. Marques, Evelina Enqvist, **G Gonçalves**, Nazanin Emami, José Grácio, Novel bio nanocomposite for biomedical application, Nordtrib 2010, 8-11 June, 2010, Sweden.

N. Emami, E. Enqvist, J. Grácio, **G. Gonçalves**, P.A.A.P. Marques, Bio-Nanocomposite for medical application, 3rd International Conference on Advanced Nanomaterials (ANM 2010) 12-15 September 2010, Agadir, Morocco

SMA Cruz, **G Gonçalves**, PAAP Marques, CM Granadeiro, HIS Nogueira, J Grácio, Graphene based nanocomposites application as SERS substrates, Ibersensor 2010, 7th Ibero-American Congress on Sensors, November, 9th – 11th 2010, High Engineering Institute of Lisbon, Portugal

M. Vila, M.T. Portolés, P.A.A.P. Marques, M.J. Feito, M.C. Matesanz, C. Ramírez-Santillán, **G. Gonçalves**, S.M.A. Cruz, A. Nieto-Peña, M. Vallet-Regi Cell uptake survey of functionalized Graphene for Near-Infrared Mediated tumor Hyperthermia, Graphene 2012, April 10-13, 2012, Brussels, Belgium

G Gonçalves, M. Vila, M.T. Portolés, M. Vallet-Regi, J. Gracio, P.A.A.P. Marques, Nano-Graphene Oxide: potentialities on cancer therapy, XXII International Materials Research Congress, August 10-15, 2013, Cancun, México.

Gil Gonçalves, Paula Alexandrina A. P. Marques, María-Teresa Portolés, María Vallet-Regi, José Gracio and Mercedes Vila Graphene Oxide: An emerging nanomaterial for cancer therapy, Graphene Week, June 22-26, 2014, Goteborg, Sweden.

Gil Gonçalves, María-Teresa Portolés, María Vallet-Regi, José Grácio, Paula Alexandrina A. P. Marques and Mercedes Vila Nano-Graphene Oxide: potentialities on cancer therapy, ANM2014, 2-4 July 2014, Aveiro, Portugal.

Gil Gonçalves, Bruno Henriques, Eduarda Pereira, Mercedes Vila and Paula A. A. P. Marques, Graphene oxide foams for Hg removal from contaminated water, Graphene Week, 22-26 June 2015, Manchester, UK.

Maryam Salimian, **Gil Gonçalves**, Daniel Reinaldo Cornejo and Paula A. A. P. Marques, Microwave assisted growth of Fe₃O₄ nanoparticles on the surface of graphene oxide nanosheets: synthesis and characterization; WOCS-DICE-EXMATEC, 6-10 June 2016, Aveiro, Portugal.

Gil Gonçalves, Jérôme Borme, Fátima Cerqueira, Pedro Alpuim, Igor BdiKin, Mercedes Vila, Paula Marques, Graphene oxide paper with reduced pattern by electron beam lithography for cell tissue guidance, 13 – 17 June 2016, Warsaw, Poland.

Posters

P.A.A.P. Marques, **G. Gonçalves**, T Trindade, Carlos P. Neto “New hybrid materials based on cellulose fibres obtained by in situ nucleation of titanium dioxide nanoparticles”, 9th European Workshop on Lignocellulosics and Pulp (EWLP) 27-30 August 2006, Viena Austria, Austria.

G.Gonçalves, Paula A. A. P. Marques Marco Peres, Teresa Monteiro, Carlos Pascoal Neto, Tito Trindade “ Synthetic studies and photoluminescence properties of ZnO/cellulose nanocomposites”, 2nd International Conference on Advanced Nano Materials 22-25 June 2008, Aveiro, Portugal.

G. Gonçalves, Paula A. A. P. Marques, Tito Trindade, Carlos Pascoal Neto, “TiO₂/cellulose nanocomposites preparation from TiCl₄ hydrolysis in the presence of urea”, 2nd International Conference on Advanced Nano Materials 22-25 June 2008, Aveiro, Portugal.

G Gonçalves, Paula A. A. P. Marques, Manoj K. Sing and José J. Grácio, Gold/graphene nanocomposites: Synthesis and characterization, 6th Nanomed2009, 4-6 March 2009, Berlim, Germany

G Gonçalves, Paula A.A.P. Marques, Manoj K. Sing, I. BdiKin, A.B. Timmons, J. Gracio, Large scale synthesis and characterization of graphene nanosheets and its application, 3rd International Conference on Advanced Nanomaterials (ANM 2010) 12-15 September 2010, Agadir, Morocco

SMA Cruz, **G Gonçalves**, CM Granadeiro, HIS Nogueira J Grácio PAAP Marques Nobel metal nanoparticles/graphene nanocomposites as SERS substrates for selective biodetection, 4th Iberian Meeting on Colloids and Interfaces, University of Porto, from 13th to 15th July 2011, Portugal

CM Granadeiro, **G Gonçalves**, PAAP Marques, PMFJ Costa, RAS Ferreira, LD Carlos, HIS Nogueira Photoluminescent graphene/polyoxometalate composites, 4th Iberian Meeting on Colloids and Interfaces, University of Porto, from 13th to 15th July 2011, Portugal.

SMA Cruz, **G Gonçalves**, CM Granadeiro, HIS Nogueira J Grácio PAAP Marques, Nobel metal nanoparticles/graphene nanocomposites as SERS substrates for selective biodetection, Nanocarbons 2011: Carbon Nanotubes and Related Materials: From Physico-Chemical Properties to Biological and Environmental Effects, 6 - 11 September 2011, Italy

CM Granadeiro, **G Gonçalves**, PAAP Marques, PMFJ Costa, RAS Ferreira, LD Carlos, HIS Nogueira Photoluminescent graphene/polyoxometalate composites, Nanocarbons 2011: Carbon Nanotubes and Related Materials: From Physico-Chemical Properties to Biological and Environmental Effects, 6 - 11 September 2011, Italy

Gil Gonçalves, Sandra M.A. Cruz, José Grácio, Paula A.A.P Marques, Cecilia Ramírez-Santillán, María Vallet-Regí, María-Teresa Portolés New bioactive PMMA-Hydroxyapatite based bone cement reinforced with graphene oxide, Graphene 2012, 10-13 April 2012, Brussels, Belgium

M.C. Matesanz, M. Vila, M.J. Feito, J. Linares, M.Vallet-Regí, **G. Goncalves**, P.A.A.P.Marques, M.T.Portolés, Cell responses to graphene oxide nanosheets, SEBBM-Sociedad Española de Bioquímica y Biología Molecular, September 2012, Sevilha, Spain.

M Salimian, E. Titus, **G. Goncalves**, I. Bdikin, M. Ferro, J. Ventura, C.C. Dias, Synthesis, characterization and magnetic properties of graphene/nickel nanocomposites: the role of reducing agent on nanoparticles size and morphology, Nanotech Advanced Materials & Applications, 14-17 June 2015, Washington, USA.

Olena Okhay, Alexander Tkach, **G. Gonçalves**, Catarina Dias, Joao Ventura, Manuel Fernando Ribeiro da Silva, Luís Miguel Valente Gonçalves and Elby Titus Conductive Paper-like Reduced Graphene Oxide Obtained by a Simple Process, International Conference on Advanced Nanomaterials (ANM), 20-22 July 2016, Aveiro, Portugal.

Projects

European Project - Sustainpack (Innovation and sustainable development in the fibre based packaging value chain). (2005 - 2007)

Nanotechnology for next generation biomedical implants. Subject: Nanomedicine. NANO/NMed-AT/0115/2007. Funded by INL-Portugal/Spain International Nanotechnology Laboratory. (2007-2011)

Biomaterials for regenerative medicine. QREN, programe Mais Centro-Programa Operacional Regional do Centro and União Europeia/ Fundo Europeu de Desenvolvimento Regional (CENTRO-07-ST24-FEDER-002030.

Projecto em co-promoção C-TEC - Moldação de Componentes Técnicos em Compósito de Matriz Polimérica Reforçada com Celulose.

Development of ultra-sensitive nanotherapeutic anticancer agents for boron neutron capture therapy, NANOTER (2016-2018). Funded by the European Commission H2020.

Students Supervision

Maryam Salimian – Thesis Project: Enhancement of hydrogen storage in graphene based nanocomposite by hydrogen spillover, PhD grant: SFRH/BD/98337/2013

Editorial board

Honours and awards

Editorial Board Member of Scientific Reports: Nature Publishing Group.

Marie Skłodowska-Curie Individual Fellowship (2016)

ANNEXES

All the necessary documents to verify the veracity of the above information will be provided when solicited for