

## Attendance to the **EUROGLYCOFORUM Meeting BERLIN 2013 (21<sup>st</sup> March 2013)**

I was invited by the external programme coordinator of the Euroglycoforum Research Networking Programme (Dr. Tony Merry) on behalf of the Committee to attend their Business meeting and to discuss on the Transdomain COST proposal in the broad area of glycoscience. In this meeting, we discussed the outline for the proposal, how the application will be made, the time table for submission and the partners who would be involved.

I also attended the 7<sup>th</sup> Glycan Forum which was taken place at the same venue during the same dates. 20-22<sup>nd</sup> of March 2013.

## Dr M Carmen Galan

[http://www.chm.bris.ac.uk/org/galan/group/mcgalan\\_home.html](http://www.chm.bris.ac.uk/org/galan/group/mcgalan_home.html)

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### Professional Experience

- 2012-date** Lecturer in Organic Chemistry, University of Bristol  
**2012-date** EPSRC Career Acceleration Fellow, University of Bristol  
**2008-2012** Royal Society Dorothy Hodgkin Fellow  
**2006-2008** Temporary Lecturer in Organic Chemistry, University of Bristol

### Education

- 2005-2006** Massachusetts Institute of Technology, Cambridge, USA,  
Post-Doctoral Fellow (*includes a period of maternity leave*). Research Advisor: Prof. Sarah E. O'Connor  
**2003-2005** The Scripps Research Institute, La Jolla, CA, USA  
Post-Doctoral Research Associate. Research Advisor: Prof. C. H. Wong  
**1998-2002** Complex Carbohydrate Research Center, The University of Georgia, Athens, USA  
Ph.D. in Organic Chemistry. Advisor: Prof. G.J. Boons  
*"Conformationally Constrained Oligosaccharides as Tools to Probe Carbohydrate Protein*

### *Interactions"*

- 1997-1998** University of Strathclyde, Glasgow, UK  
M.Phil. in Pure and Applied Chemistry. Advisors: Dr. P. J. Hall and Dr. L.E.A. Berlouis  
*"Electrochemical Hydrogenation of Coal"*  
**1992-1997** Universidad de Alicante, Spain.  
BSc. in Chemistry, with specialization in Analytical Chemistry

### Awards

- 2007** The Wellcome Trust Value in People Award  
**2008** RS Dorothy Hodgkin Fellowship  
**2011** Hoffmann-La Roche award to attend the European Young Investigator Workshop in Lyon  
**2012** Visiting Professorship Université Joseph Fourier  
**2012** EPSRC Career Acceleration Fellowship

### Academic Activities and External Recognition:

I am a member of the Royal Society of Chemistry Carbohydrate Committee. I also serve in the Advisory Board of the journal *Organic and Biomolecular Chemistry* and the Editorial Board for *Carbohydrate Research*. I am a regular reviewer of manuscripts for high impact journals (ACS, Wiley, Royal Society, Elsevier, etc). In additions, I referee grants for UK Research Councils (BBSRC, EPSRC, Royal Society) and I am also a member of the Royal Society Newton International Fellowship Grant Committee panel (Physical Sciences). I have also been act to referee other grants in Europe such as Fundação para a Ciência e a Tecnologia (FCT) in Portugal and l'Agence Nationale de la Recherche (ANR) in France. Furthermore, I am one of the organizers of the European Science Foundation funded Young Investigators Workshop to be held in Berlin in March 2013 ([www.mpikg.mpg.de/english/025-BiomolecularSystems/events/EYIW/index.html](http://www.mpikg.mpg.de/english/025-BiomolecularSystems/events/EYIW/index.html)).

### Representative Publications

#### ■ as independent researcher

- 30.** Benito-Alifonso, D. Tremel, S. Ho, B. Fermin, D. Verkade, P., Berry and M. Galan M. C.\* *Lactose acts as a "Trojan horse" for cell Transport of Functionalized Quantum Dots. Submitted (2013).*  
**29.** Benito-Alifonso, D.; Tran, A. T.; Jones, R. A. *Convergent synthesis of mucin O-Glycan probes. Submitted (2013)*  
**28.** Hou, B.; Benito-Alifonso, D.; Galan, M.C.; Fermin D\* *Initial stages in the formation of Cu<sub>2</sub>ZnSn(S,Se)<sub>4</sub> nanoparticles. Submitted (2013).*

27. M. C. Galan, P. Dumy and O. Renaudet\*, Multivalent Glyco(cyclo)peptides. *Chem. Soc. Revs.* (2013), DOI: 10.1039/C2CS35413F
26. I. Sittel, A.T. Tran, D. Benito-Alifonso and M. C. Galan\*, Combinatorial Ionic Catch and Release Oligosaccharide Synthesis (Combi-ICROS). (2013), DOI: 10.1039/C2CC37164B
25. E. I. Balmond, D. M. Coe, M. C. Galan\*, E. McGarrigle\*, Alpha-Selective Organocatalytic Synthesis of 2-Deoxygalactosides. *Angew. Chem. Int. Ed.* (2012), 51 (36), 9152-9155. *Highlighted in Synfacts* (2012), 8 (10) 145.
24. M. C. Galan\*, A.T. Tran, K. Bromfield, S. Rabbani and B. Earnst. Chemo-enzymatic Synthesis of Ionic-Liquid Tagged Oligosaccharide Probes. *Org. Biomol. Chem.* (2012), 10, 7091-7097.
23. M. Carmen Galan\*, Anh Tuan Tran, Julien Boisson, David Benito, Craig Butts, Julien Eastoe and Paul Brown. [RN4] [AOT]: A surfactant ionic liquid as a mild glycosylation promoter. *J. Carbohydr. Chem.* (2011), 30 (7-9), 486-497.
22. A.T. Tran, Rachel A. Jones, Julien Pastor, Julien Boisson, Nichola Smith and M. Carmen Galan\*. Copper (II) triflate: a versatile catalyst for the one-pot preparation of orthogonally protected glycosides. *Adv. Synth. Cat.* (2011), 353 (14-15), 2593-2598.
21. A.T. Tran, R. Burden, T.D. Racys and M.C. Galan\*. Ionic Catch and Release Oligosaccharide Synthesis (ICROS). *Chem. Commun.* (2011), 47 (15), 4526 - 4528.
20. M. C. Galan\*, D. Benito-Alifonso and G. M. Watt. Carbohydrate Chemistry in Drug Discovery. *Org. Biomol. Chem.*, (2011), 9 (10), 3598 - 3610. *Top ten most accessed articles in March and June 2011.*
19. M.C. Galan\*, A.T. Tuan, C. Bernard. Ionic Liquid based Catch and Release MS Tags for Enzyme monitoring. *Chem. Commun.* (2010), 46, 8968 – 8970.
18. M. C. Galan\* and Anthony P. Corfield. Ionic liquids in oligosaccharide synthesis: toward mucin type glycan probes. *Biochem. Soc. Trans.* (2010), 38, 1368-1373.
17. R.A. Jones, R.A. Davidson, A.T. Tuan, N. Smith and M.C. Galan\*. Iodine catalyzed one pot acetalation-esterification reaction for the preparation of orthogonally protected glycosides. (2010) *Carbohydr. Res.* 345, 13, 1842-1845.
16. M.C. Galan\*, A.T. Tuan, S. Whitaker. [bmim][OTf] as co-Solvent/Promoter in Room Temperature Reactivity-Based One Pot Glycosylation Reactions. *Chem. Comm.* (2010) 46, 2106 -2108.
15. M.C. Galan\*, K. Jouvin, D. Alvarez-Dorta. Scope and Limitations of Imidazolium Based Ionic Liquids as Room Temperature Glycosylation Promoters. *Carbohydr. Res.* (2010) 345, 45-49.
14. M.C. Galan\*, C. Brunnet, M. Fuensanta. [Bmim][OTf]: A Versatile Room Temperature Glycosylation Promoter. *Tetrahedron Lett.* (2009), 50, 442-445.

#### **Invited research lectures and presentation.**

Total: 35 invited lectures since 2007. 2012/2013 Lectures are listed below.

35. RSC Carbohydrate Group/Biochemical Society Joint Meeting. London, 11th March 2013.
34. Chemical Biology RSC Symposium, Bristol, 9th January 2013.
33. Pfizer Neusentis Mini-Symposium, Department of Chemistry, University of Oxford. 25th October 2012.
32. 25<sup>th</sup> International Carbohydrate Symposium, Madrid, 22nd-27th of July 2012.
31. Carbohydrate Research New Investigator Symposium, Madrid, 21st July, 2012.
30. Universidad de Barcelona, Departamento de Quimica Organica. 5th June 2012.
29. Universite Joseph Fourier , Grenoble, France, 26th April 2012.
28. Institut de Chimie et Biochimie Moleculaires, Universite Claude Bernard Lyon 1, France, 18th April 2012.
27. Complex Carbohydrate Research Center, Athens, GA, USA. 5th April 2012
26. Young Chemists 2012, Imperial College, London, UK, 30th March 2012.
25. Manchester Interdisciplinary Biocentre (MIB) , Manchester, UK, 28th March 2012.