



Simposio Cuba-UK en química y ciencias de la vida
Cuba–UK Symposium on Chemistry and Life Sciences

*Convento de San Francisco de Asís, Plaza de San Francisco, Havana, January 10th to 12th,
2006*



Universidad de La Habana

Monday, January 9, 2006

17:00 - 20:00 Registration. Mixer cocktail.

Casa Carmen Montilla, Plaza de San Francisco, La Habana Vieja

Tuesday, January 10, 2006

All scientific sessions will take place at “*Salón de la Energía*”, third floor, *Convento de San Francisco de Asís, Plaza de San Francisco*, entrance by *Oficios St.*, *La Habana Vieja*.

8:00 - 8:30 Registration

8:30 - 9:00 Opening Session

9:00 - 10:20 Introductory lecture

Science, Art and Drug Discovery, a Personal Perspective

Simon Fraser Campbell, President of the Royal Society of Chemistry

Development of a conjugate vaccine against Haemophilus influenzae type b using a synthetic antigen. A platform for future carbohydrate vaccines

Vicente Vérez-Bencomo, Universidad de La Habana

10:20 - 10:40 Break

10:40 - 12:40 Lectures

Expectations and drawbacks of producing complex glycotherapeutics in the milk of animals: rEPO expressed in goat mammary gland cells, a case study

José Cremata, Centro de Ingeniería Genética y Biotecnología

Synthesis of glycopeptides and glycoproteins

Sabine Flitsch, University of Manchester

Strain-dependent surface glycosylation of Trypanosoma cruzi correlates with disease

Christopher Jones, National Institute for Biological Standard and Control

12:40 - 14:30 Lunch

14:30 - 16:30 Lectures

Polymeric hydrogel anisotropic tissue expanders for reconstructive surgery

Marc C. Swan, University of Oxford

Overview of recent development of polymeric and ceramic based systems in biomedical applications

Natalia Davidenko, Universidad de La Habana

Interactions in Biopolymer-Surfactant Systems

Aurora Pérez-Gramatges, Instituto Superior de Tecnologías y Ciencias Aplicadas

16:30 – 17:30 Poster session 1 (Corridors, third floor)

Wednesday, January 11, 2006

9:00 - 10:20 Lectures

A specific peptide inhibitor of aspartic proteinases: specificity and retargeting

Colin Berry, Cardiff University

Protease inhibitors isolated from marine invertebrates. Structure – function and some potential applications

María de los Ángeles Chávez, Universidad de La Habana

10:20 - 10:40 Break

10:40 - 12:40 Lectures

Bionanosciences and Supramolecular Chemistry

Roberto Cao, Universidad de La Habana

Neoglycoenzymes: Chemically modulated biocatalysts

Reynaldo Villalonga, Universidad de Matanzas

Sugars & Proteins: Exploiting & Exploiting Glycoscience

Ben Davis, University of Oxford

12:40 – 14:30 Lunch

14:30 – 15:50 Lectures

Cuban plant growth regulators. Are they really brassinosteroid analogues?

Francisco Coll, Universidad de La Habana

Polymeric systems for the slow release of plant growth regulators

Ricardo Martínez, Universidad de La Habana

15:50 - 16:30

Challenges and opportunities for the chemical sciences in the 21st century

Rodney Townsend, The Royal Society of Chemistry

16:30 – 17:30 Poster session 2 (Corridors, third floor)

Thursday, January 12, 2006

9:00 - 10:20 Lectures

Pattern recognition and grid computing in drug discovery

W. Graham Richards, University of Oxford

CNDOL approximation in computational chemistry for electronic spectra estimation of biological molecular systems: An application to retine diseases

Luis A. Montero, Universidad de La Habana

10:20 - 10:40 Break

10:40 - 12:40 Lectures

Multiscale approaches to protein – ligand interactions

Guy Grant, University of Cambridge

Metabolomics and machine learning for understanding microbiological systems

Roy Goodacre, University of Manchester

Towards a thermodynamic theory of complex chemical reactions

J. M. Nieto-Villar, Universidad de La Habana

12:40 - 14:30 Lunch

14:30 - 16:30 Lectures

Investigating new genes, new proteins and new compounds in microbial polyketide biosynthesis

Russell Cox, University of Bristol

Protein NMR

Carlos Pérez, Universidad de La Habana

Development of new tools for proteome analyses

Lila Castellanos, Centro de Ingeniería Genética y Biotecnología

20:00 Symposium dinner. Closing remarks and farewell.

HOTEL FLORIDA, Obispo St. at the corner with San Ignacio St., La Habana Vieja.

Friday, January 13, 2006

9:00 Visits to centres of scientific and cultural interest for invited lecturers

SYMPOSIUM AT A GLANCE:

	Monday 9	Tuesday 10	Wednesday 11	Thursday 12	Friday 13
8:30		OPENING			
9:00		Campbell	Berry	Richards	VISITS
9:40		Vérez	Chávez	Montero	
10:20		BREAK	BREAK	BREAK	
10:40		Cremata	Cao	Grant	
11:20		Flitsch	Villalonga	Goodacre	
12:00		Jones	Davis	Nieto	
12:40		LUNCH	LUNCH	LUNCH	
14:30		Swan	Coll	Cox	
15:10		Davidenko	Martínez	Pérez	
15:50		Pérez – G.	<i>Especial session</i>	Castellan.	
16:30		Posters 1	Posters 2		
17:00	REGS. AND MIXER				