


THERAPEUTIC MAMMALIAN CELL-DERIVED GLYCOPROTEINS: DESIGN, EXPRESSION AND GLYCOSYLATION ANALYSIS

 Cell Culture Laboratory. School of Biochemistry and Biological Sciences – Universidad Nacional del Litoral
Santa Fe, Pcia. de Santa Fe, Argentina

09/03/2018 – 09/08/2018



Monday 09/03/2018	Tuesday 09/04/2018	Wednesday 09/05/2018	Thursday 09/06/2018	Friday 09/07/2018	Saturday 09/09/2018
BASIC PRINCIPLES	GLYCOENGINEERING			REGULATORY	GLYCOMICS AND IMMUNOGENICITY
8:00 – 8:30 Welcome		8.00 – 9.00 “Large scale production of glycoproteins” Ricardo Kratje	8:00 – 9.00 “Quality control of therapeutic glycoproteins” Marina Etcheverrigaray	8:00 – 9:30 “Regulatory requirements for developing and commercializing biotherapeutics” Thomas Ryll	8:00 – 9:30 “Glycomics in medicine” Karina Mariño
8:30 – 10.00 Glycobiology Raquel Montesino	8.30 – 10.30 “Glycoengineering” Susan T. Sharfstein	9.00-10.30 “Cell culture strategies for enhanced glycoprotein production” Laura Palomares	9:00 – 10:30 “Mass spectrometry and its applications to glycoprotein study” Ronaldo Mohana Borges	9.30 – 10.30 A related topic in evaluation Susan T. Sharfstein	9:30 – 11:00 “Immunogenicity of therapeutic glycoproteins” Eduardo Mufarrege
10 – 10.30 Introduction of students					
10:30 – 11:00 – Break	10:30 – 11:00 – Break	10:30 – 11:00 – Break	10:30 – 11:00 – Break	10:30 – 11:00 – Break	
11:00 – 12:30 “Biological roles of glycans” Natalia Ceaglio	11.00 – 12.30 Workshop II: Protein engineering by hyperglycosylation G. Forno / M. Oggero	11-12.30 “Recombinant Vaccines” Laura Palomares	11.00 – 12:30 “Spectroscopic methods applied to glycoprotein analysis” Carlos Bertoncini	11:00 – 12:30 “Regulatory strategies for addressing accelerated timelines and novel formats of biotherapeutics” Thomas Ryll	11.00 – 11.30 Break
					11.30 – 12.30 Final discussion. Paper exposition G. Forno / M. Oggero
12:30 – 14:00 - Lunch	12:30 – 14:00 – Lunch	12:30 – 14:00 – Lunch	12:30 – 14:00 – Lunch	12:30 – 14:00 - Lunch	12:30 – 14:00 - Lunch
14:00 – 15:30 Therapeutic glycoproteins Yves Durocher	GLYCOPROTEIN EXPRESSION	ANALYTICS	14:00 – 15:30 “Determination of glycoprotein biological activity: cellular and animal models” Mariela Bollati-Fogolín	14:00 – 15:00 “Comparability and biosimilarity studies” Laura Mauro	Farewell Afternoon
	14.00 – 15.30 “Mammalian cell glycoprotein expression” Claudio Prieto	14:00 – 15:30 “Glycoprotein characterization” Alicia Couto			
15.30 – 17.30 Workshop I: Selecting the host for glycoprotein production Raquel Montesino	15.30 – 17.30 Workshop III: High-throughput expression in mammalian cells Yves Durocher	15.30 – 18:00 Wet lab I: In vitro cell-based bioassays 15.30 – 18:00 Wet lab II: Glycan chromatography	15.30 – 18:00 Wet lab III: Glycan chromatography 15.30 – 18:00 Wet lab IV: Glycopeptide/Glycan Mass spectrometry	15:30 – 18.00 Visit to Therapeutics Zelltek SA Production Plant	


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Organizers:

Guillermina Forno Universidad Nacional del Litoral / Gerente de Investigación y Desarrollo AMEGAbiotech S.A., Argentina
 Marcos Oggero Eberhardt Universidad Nacional del Litoral / Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina

Speakers:

Alicia Couto Universidad de Buenos Aires / Centro de Investigación de Hidratos de Carbono (CIHIDECAR)/CONICET, Argentina
 Carlos Bertoncini Investigador Asociado DominguezLAB CRO / CONICET, Argentina
 Claudio Prieto Universidad Nacional del Litoral, Argentina
 Eduardo Mufarrege Universidad Nacional del Litoral / CONICET, Argentina
 Guillermina Forno Universidad Nacional del Litoral / Gerente de Investigación y Desarrollo AMEGAbiotech S.A., Argentina
 Karina Mariño Instituto de Biología y Medicina Experimental (IBYME) / CONICET, Argentina
 Laura Mauro Jefe de Control de Calidad, Zelltek S.A, Argentina
 Laura Palomares Universidad Autónoma de México, México
 Marcos Oggero Eberhardt Universidad Nacional del Litoral / CONICET, Argentina
 Mariela Bollati Fogolín Institut Pasteur de Montevideo, Uruguay
 Marina Etcheverrigaray Universidad Nacional del Litoral / CONICET, Argentina
 Natalia Ceaglio Universidad Nacional del Litoral / CONICET, Argentina
 Raquel Montesino Universidad de Concepción, Chile
 Ricardo Kratje Universidad Nacional del Litoral / CONICET, Argentina
 Ronaldo Mohana Borges Universidad Federal de Río de Janeiro, Brasil
 Susan Sharfstein Professor of Nanobioscience. SUNY Polytechnic Institute, College of Nanoscale Science and Engineering, USA
 Thomas Ryll Vice President, Process and Analytical Development at ImmunoGen, Inc., USA
 Yves Durocher Bioprocédés Institut de recherche en biotechnologie, Montreal, Canadá