

Inserm Workshop 256

La biologie des Glycosaminoglycanes (GAGs) : les tous derniers progrès en recherche fondamentale, développements méthodologiques et applications cliniques

Glycosaminoglycan (GAG) biology: newest advances in basic research, technological developments and clinical applications

19-21 Juin 2019 / June 19-21, 2019 ■ Bordeaux, France

Mercredi 19 Juin 2019 ■ **Wednesday June, 19th 2019**

14:30 - 15:00	Reception of participants
15:00 - 15:10	Welcome and presentation by the organizers
15:10 - 15:50	General introduction : Speaker to be confirmed
SESSION I	On the roots of GAG Biosynthesis and Metabolism
15:50 - 16:30	Effect of biosynthesis enzyme interactions on heparan sulfate structure Léna Kjellen (Uppsala University, Sweden)
16:30 - 17:00	Coffee Break and Poster Session
17:00 - 17:40	Heparan Sulfate Sulfotransferases: Structural Insight into Substrate Specificity Lars Pedersen (NIEHS/NIH, Chapel Hill, USA)
17:40 - 18:20	Exploration of cell surface and extracellular chondroitin/dermatan sulfate function and its possible use in therapy Anders Malmström (Lund University, Sweden)
18:20 - 19:00	Sub-domain organization of SULF extracellular sulfatases: structural and functional consequences Romain Vivès (Institut de Biologie Structurale, Grenoble, France)
19:00 - 19:40	Inborn errors of GAG metabolism Sylvie Fournel Gigleux (Nancy University, France)
19:40	Diner

Jeudi 20 Juin 2019 ■ **Thursday June, 20th 2019**

06:30 - 08:50	Breakfast
SESSION II	GAG-protein interactions: structure/function relationships and physiopathology
08:50 - 09:30	Characterization of Heparan Sulfate and Receptor binding sites on chemokines to understand how GAG regulate chemokine mediated cell migration Hugues Lortat-Jacob (Institut de Biologie Structurale, Grenoble, France)
09:30 - 10:10	Heparan sulfate as a regulator of chondrocyte differentiation Andrea Vortkamp (Essen University, Allemagne)
10:10 - 10:40	Coffee Break and Poster Session

10:40 - 11:20	Role of GAGs in tumor cell internalization of lipoproteins and exosomes Mattias Belting (Lund University, Lund, Sweden)
11:20 - 12:00	Heparan Sulfates altered cellular location: consequences in neurodegeneration Dulce Papy-Garcia (Université Paris Est, Créteil, France)
12:00 - 12:40	Renal glycosaminoglycans as docking platforms for complement factors Jacob van den Born (Groningen University, Pays-Bas)
12:40 - 14:30	Lunch
SESSION III	Technological and methodological approaches for GAG analysis
14:30 - 15:10	Analysis of GAG/protein interactions by NMR and Modelling Pedro M. Nieto (Spanish National Research Council, Sevilla, Spain)
15:10 - 15:50	Sequencing of glycosaminoglycans with potential to interrogate sequence-specific interactions Toin van Kuppevelt (Radboud University, Nijmegen, Pays-bas)
15:50 - 16:30	Building and analysis of glycosaminoglycan and proteoglycan interactomes Sylvie Ricard-Blum (Université de Lyon I, France)
16:30 - 17:00	Coffee Break and Poster Session
17:00 - 17:40	Chemical GAGobiology: chemistry for tailored probes David Bonnaffé (Institut de Chimie Moléculaire et des Matériaux d'Orsay, France)
17:40 - 18:20	Expanding the chondroitin- and heparan sulfate glycoproteome by LC – MS/MS Fredrik Noborn (University of Gothenburg, Sweden)
19:30 - 20:15	Cocktail
20:15	Dinner

Vendredi 21 Juin 2019 ■ **Friday June, 21st 2019**

06:30 - 08:30	Breakfast
SESSION IV	GAGs : from bench to bedside
08:50 - 09:30	Speaker to be confirmed
09:30 - 10:10	How the Regenerating Agents (RGTA®), mimetics of heparan sulfates, open a new branch in regenerative medicine: a translational medicine saga from bench to patient Franck Chiappini (OTR3, Paris, France)
10:10 - 10:40	Coffee Break and Poster Session
10:40 - 11:20	GAG-based strategies for treating cartilage disease Patricia Albanese (Université Paris Est, Créteil, France)
11:20 - 12:00	Chemoenzymatic synthesis of heparin and drug discovery Yongmei Xu (South Carolina University, Chapel Hill, USA)
12 :00 -12 :15	Conclusion
12:15 - 14:00	Lunch
14:00	Departure