Program + Handouts

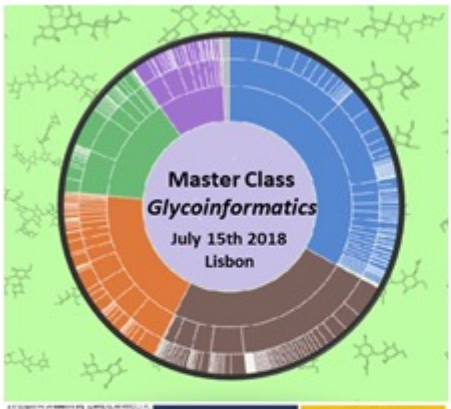
Description

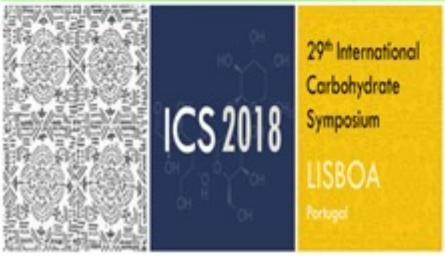
The proposed “Master Class in Glycoinformatics” aims at presenting and popularizing existing tools to a large community through practical courses given by leading scientists in the field. Information searching and data extraction are benefitting from the formidable contribution of computational science and technology. To manage data, and to make information accessible to a wider scientific community, publicly available databases and modeling tools for glycoscience have been developed, both in the field of glycochemistry and glycobiology. These tools are reaching maturity and standards are being established to ensure the quality, comparability, and consistency of data. The application of data mining will undoubtedly open new paths to discovery in the carbohydrate field. Besides, the concomitant expansion of stable and integrated databases, crossed-referenced with other resources popular in biology will undoubtedly contribute to bridging glycomics with other –omics. This scenario already fostered progress in several –omics fields individually and in relation to one another.

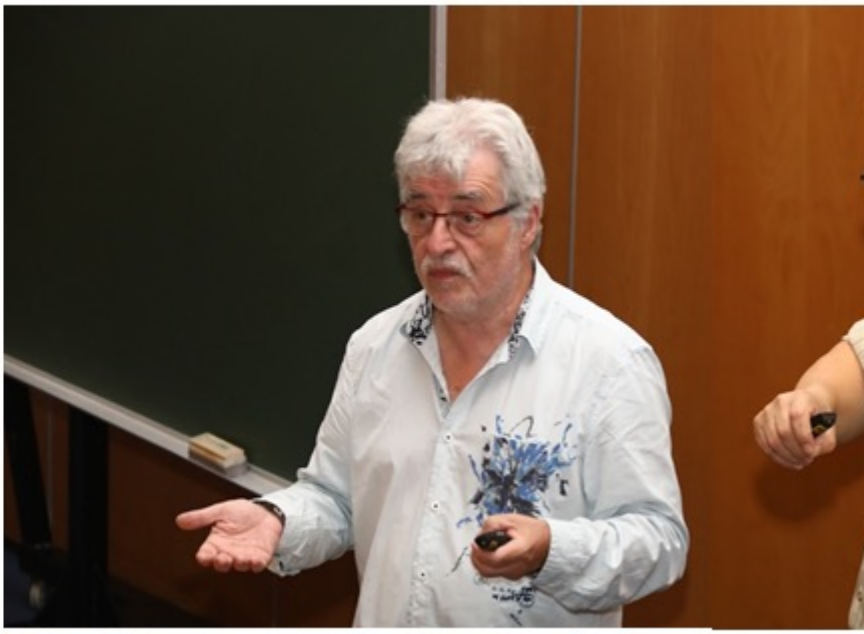
WELCOME INTRODUCTION
S. Perez: A Traveler?Guide to Carbohydrates in the Cyber?Space.
J. Koca: Chemo?and Structural GlycoInformatics.
R. Woods: 3D Building & Displaying Complex Carbohydrates
R. Marchetti: Integrated Use of Databases in Structural Investigations of Complex Carbohydrates.
K. Aoki Kinoshita: Guide to Using GlycomicsDatabases.
F. Lisacek: Portal of GlycoInformatics

RECENTLY DEVELOPED TOOLS AND DATABASES
F. Bonnardel: UniLectin: A structure?based database
O. Clerc: MatrixDB
J. Birch: Exopolysaccharide Structures & Properties Database M. Montenegro: CycloMolder
S. Perez: Polys?Glycan Builder
J. Koca: LiteMol

CONCLUDING REMARKS S. Flitsch

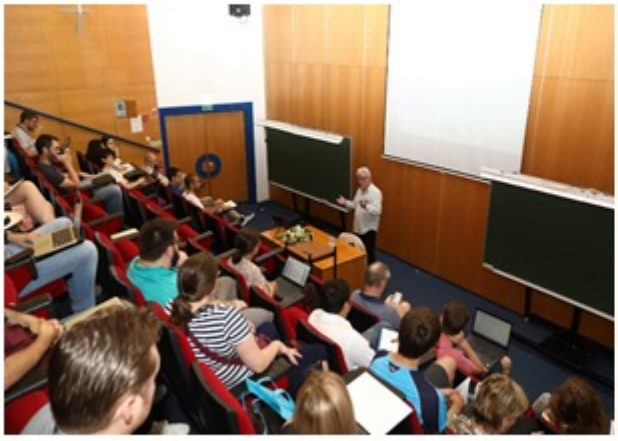


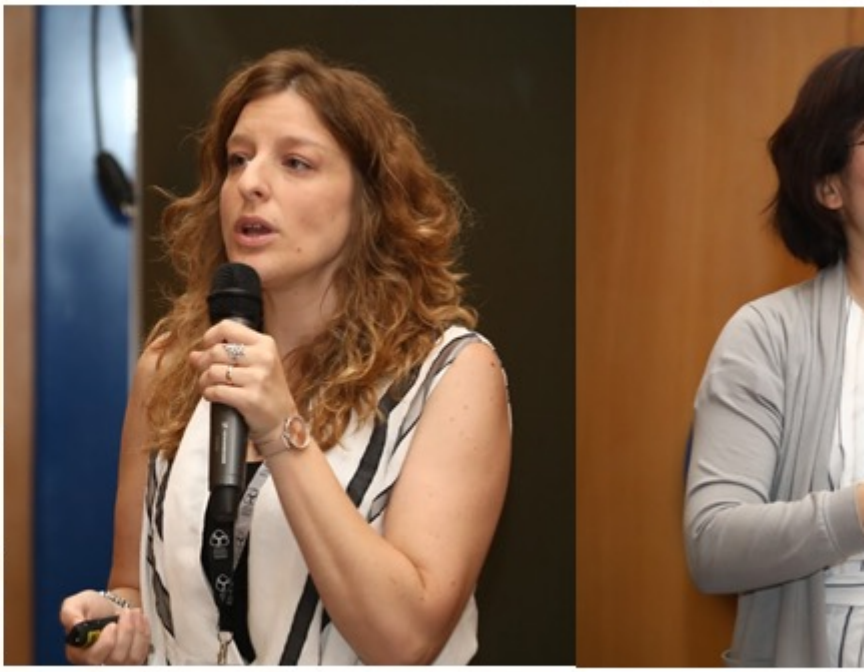




Metrology of Carbohydrates for Enabling European BioIndustries

Glyco@Alps
Univ. Grenoble Alpes





Category

1. News