

“Dynamic *nano-* and *glyco-*sciences”

Spring Training School – COST CM1102 - MultiGlycoNano

Joint meeting with the “Dynano” ITN network

7-9 april 2014, University of Namur, Belgium

Report

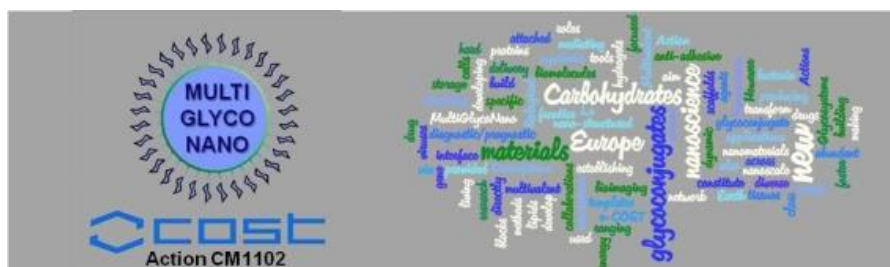
Objective of the meeting - This workshop gave young scientists an integrative/multidisciplinary presentation of different aspects of glycosciences. Glyconanoparticles, artificial lectins, bacterial adhesins and also the chemical biology of glycosyl-processing enzymes have been covered.

Attendance – Around 70 persons participated to this workshop. Among them, 29 PhD students and 4 speakers were fully sponsored by the COST action. From the ITN “Dynano” network, 15 early stage researchers participated and around 10 permanent researchers/Professors. Around 15 participants from the University of Namur were also present, most of them being PhD students and post-docs.

Scientific program – Ten plenary lectures and two poster sessions were organized. A time frame of one hour was scheduled for each lecture, thus leaving a significant place for scientific discussions between each course. On purpose, the scientific committee had chosen to invite speakers with the broadest scientific profile around glycosciences, the central topic. Thus, lectures spanning from material science to pure biology were given. Chemical sciences were obviously well represented and talks on the supramolecular chemistry of glycoreceptors as well as on the synthesis and biological properties of glycodendritic structures were presented (see program).

Over 40 posters were have been presented: they were all exposed from the very beginning to the very end of the meeting and two poster sessions were organized to allow scientific exchanges. All the COST-funded students presented a poster.





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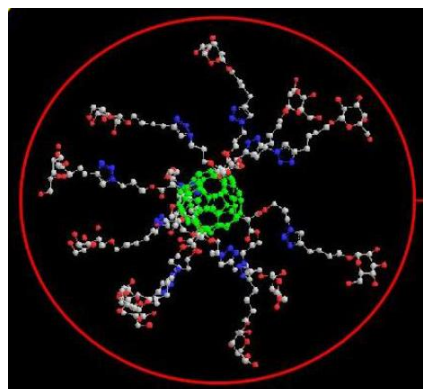
Speakers

Nico Callewaert (Gent University)
 Tony Lefebvre (Lille University)
 Bao-Lian Su (UNamur)
 Mihai Barboiu (IEM, Montpellier)
 Tamis Darbre (Bern University)

Javier Rojo (CSIC, Sevilla)
 Julie Bouckaert (Lille University)
 Antony Davis (University of Bristol)
 Simon Webb (University of Manchester)
 Davide Bonifazi (UNamur)

Description

This workshop will give young scientists an integrative/multidisciplinary presentation of different aspects of glycosciences. Glyconanoparticles, artificial lectins, bacterial adhesins and also the chemical biology of glycosyl-processing enzymes will be covered.



Meeting venue	Address
UNamur Faculté des Sciences Département de Chimie Auditoire CH11	Rue Grafé 2 B-5000 Namur, Belgique



PROGRAMME

Monday 7th April 2013

13:00 – **Registration (Hall in front of Auditoire CH11)**

13:45-14:00- **Opening and Welcome (Auditoire CH11)**

14:00-15:00-

Dynamic lectin-recognition of multivalent glyconanoplatfoms

Mihail BARBOIU (Institut Européen des Membranes, Montpellier, France)

15:00-16:00-

Mastering directionality in supramolecular organic chemistry

Davide BONIFAZI (UNamur, Belgium)

16:00-16:30- **Coffee break**

16:30-18:30- **Poster Session**

20:00- **Get together dinner.**

Restaurant “Grill des Tanneurs” (Les tanneurs de Namur, Rue des Tanneries, 13 5000 Namur).

Tuesday 8th april 2013 (Auditoire CH11)

9:00-10:00

Binding and Reactivity of Synthetic Glycolipids in Lipid Microdomains

Simon WEBB (University of Manchester)

10:00-11:00 -

Synthetic Lectins: Progress in Biomimetic Carbohydrate Recognition

Antony DAVIS (University of Bristol, UK)

11:00-11:30- **Coffee break**

11:30-12:30-

Glyco-engineering for modulating the function of therapeutic proteins

Nico CALLEWAERT (University of Gent, Belgium)

12:30-14:00- **Lunch**

14:00-15:00 –

Beta INS-1E Cells @Alginate @TiO₂ Hybrid Microcapsules as "Artificial Pancreas": Towards the Controlled Delivery of Insulin for Cell Therapy of Type 1 Diabetes
Bao-Lian SU (University of Namur, Belgium).

15:00-16:00 -

Glycopeptide dendrimers as Pseudomonas aeruginosa biofilm inhibitors
Tamis DARBRE (University of Bern)

16:00-16:30- **Coffee break**

16:30-18:30- **Poster Session**

Wednesday 9th April 2014 (Auditoire CH11)

9:00-10:00-

Glycodendritic structures as tools to inhibit infection processes
Javier ROJO (CSIC, Sevilla).

10:00-11:00-

Mannose-based inhibitors of Escherichia coli adhesion: design and applications
Julie BOUCKAERT (University of Lille).

11:00-11:30- **Coffee break**

11:30-12:30-

Regulation of cell signaling and cell cycle by O-GlcNAcylation: the sweet side of phosphorylation
Tony LEFEBVRE (University of Lille, France).

12:35- **Concluding remarks**

12h40- Delivering « Certificates of attendance » + Group picture.

13:00-14:00- **Lunch**