Editorial

In April the DYNANO project had its network meeting at the Facultés Universitaires Notre-Dame de la Paix in Namur. A complementary skills module was led jointly by G. Rios from EMH and Mrs. S. Hernandez from ScomScience on "Communicate More Efficiently". Presentations by all network fellows on the advancement of their individual research projects were given.
A visit to SOLVAY for various presentations on industrial research & innovation was successful.
A three days joint workshop & spring training school on "DYNAMIC NANO- AND GLYCO-SCIENCES" was a success and fruitful thanks to DYNANO's team and organizers.
It is a great opportunity to operate in such an environment. To be continued…

Sadika Guedidi & Marion Ritchie

DYNANO Partners

DYNANO's challenging objectives will be reached thanks to a strong **multidisciplinary consortium of 12 partners** with high-level expertise from **all over Europe**. First-class **research groups** are working hand in hand with innovative **industrial companies** to reach DYNANO's scientific goal and train a new generation of skilled scientists.

1. **Centre National de la Recherche Scientifique – CNRS – France**
   - **Institut Européen des Membranes – IEM**
   - **Institut Charles Sadron – ICS**
2. **Université de Strasbourg – UDS – France**
   - **Institut de Science et d'Ingénierie Supramoléculaires - ISIS**
3. **Royal Institute of Technology – KTH – Sweden**
4. **Facultés Universitaires Notre-Dame de la Paix – FUNDP – Belgium**
5. **Consejo Superior de Investigaciones Científicas – CSIC – Spain**
   - **Instituto de Química-Física « Rocasolano » - IQFR**
   - **Centro de Investigaciones Biológicas - CIB**
   - **Instituto de Investigaciones Biomédicas "Alberto Sols"- IIBM**
6. **Università degli Studi di Firenze – UNIFI – Italy**
7. **Semmelweis University – SE – Hungary**
8. **International Centre of Biodynamics – ICB, Romania**
9. **Attana AB – Sweden**
10. **GVS S.p.A – Italy**
11. **SOLVAY – Belgium**
12. **EMH – Belgium**

www.dynano.eu

DYNANO in a nutshell…

DYNANO is a Marie Curie **Initial Training Network**, funded by the European Commission under the 7th Framework Programme. It trains a new generation of scientists in the interdisciplinary field of dynamic interactive nanosystems for biomedical & biotechnological applications.

FP7-PEOPLE-2011-ITN – Grant Agreement N°: PITN-GA-2011-289033
Start date: November 1st 2011 – Duration: 48 months – EC funding: 3 825 000 €.

Joint COST & DYNANO Spring Training School

"Dynamic nano- & glyco-sciences"

7-9 April 2014 Namur, Belgium

Both **DYNANO** & **COST,** have co-organized a joint spring training school on 7-9 April 2014 in Namur, Belgium. It was organized by the Facultés Universitaires Notre-Dame de la Paix – FUNDP. Both projects were introduced and encouraged to cross fertilize. Series of lectures were given by scientists from both networks as well as recognized invited speakers :

Mihail BARBOIU (Institut Europeen des Membranes, Montpellier, France) – Dynamic Lectin-recognition of Multivalent Nanoplatforms.

Davide BONIFAZI (UNamur, Belgium) – Mastering Directionality in Supramolecular Organic Chemistry

Simon WEBB (University of Machester, United Kingdom) – Binding and Reactivity of Synthetic Glycopeptides in Lipid Microdomains

Anthony DAVIS (University of Bristol, United Kingdom) – Synthetic Lectins: Progress in Biomimetic Carbohydrate Recognition

Nico CALLEWAERT (University of Gent, Belgium) – Glyco-engeneering for Modulating the Function of Therapeutic Proteins

Bao-Lian SU (UNamur Belgium) – Beta INS-1E Cells@Alginate@TiO2 Hybrid Microcapsules as «Artificial Pancreas ». Towards the Controlled Delivery of Insulin for Cell Therapy of Type 1 Diabetes

Tamis DABRE (University of Bern, Switzerland) – Glycopeptide Dendrimers as Pseudomonas aeruginosa Biofilm Inhibitors

Javier ROJO (CSIC, Sevilla, Spain) – Glycodendritic Structure as Tools to Inhibit Infection Processes

Julie BOUCKAERT (University of Lille, France) – Mannose-based Inhibitors of Escherichia Coli Adhesion: Design and Applications

Tony LEFEBVRE (University of Lille, France) – Regulation of Cell Signaling and Cell Cycle by O-GlcNAcylation: the Sweet Side of Phosphorilation

More details are available on the DYNANO website

Namur DYNANO's Network Meeting

The Namur Network Meeting started on April 5 with a complementary skills module led jointly by Gilbert Rios from EMH and Mrs. Hernandez from ScomScience. The presentation was entitled "communicate more efficiently" and aimed at supporting ESRs and ERs in better presenting scientific messages whether oral or written. The latter was continued by 20 minutes presentations by all network fellows on the advancement of their individual research projects including our new ESR from Romania: Madalina Axinie. Then, on Monday morning, fellows visited our associated partner SOLVAY for various presentations on industrial research and innovation.

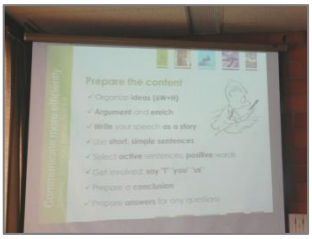
ESR- ER Complementary Skills Training "Communicate more efficiently"

G. RIOS (EMH, Belgium), S. HERNANDEZ (ScomSciences, Montpellier)

- Communication, what is that?
- Improve your speaking skills
- Prepare your speech
- Visual communication: improving your documents & presentations

SOLVAY Training Session

- Organizing innovation in an industrial perspective - **Anne Goldberg**
- About Mathematical Modeling in Industrial R&D Context - **Yves Dauphin**
- Practical HSE aspects specific to experimental works with nanoparticles - **Nathalie Bern**
- Process Intensification - **Kamel Ramdani**



Interview with Xabier Osteikoetxea Veleze ESR - Semmelweis University. Budapest, Hungary

I am Spanish and Mexican and I have studied a Bachelor of Sciences in Microbiology and Cell Sciences at the University of Florida, USA and a Masters of Sciences in Biomedical Research at the Pompeu Fabra University, Barcelona, Spain.

Xabier Osteikoetxea Veleze

What is your PhD project about? What objectives do you have to reach?

My PhD project is about the characterization and isolation of Extracellular Vesicles. The goals are to improve the existing methods for extracellular vesicle characterization and isolation.

What is the best thing about taking a PhD in the framework of an ITN European Project? What is challenging?

The best thing about an ITN European network is the amazing opportunity to interact with other scientists that are specialist in diverse fields; however it can sometimes be challenging harmonizing different approaches to solve problems.

What are your plans after completing the PhD?

After completing my PhD I would love to incorporate into a Postdoctorate position at a laboratory that can help me continue pursuing my scientific interests and projects in the extracellular vesicle field.

Newsletter – Issue 5 – June 2014

Secondment's News

Susanne Schneider - University of Strasbourg. France
Supervisors : Jean-Marie Lehn & Nicolas Giuseppone
Lab's host : Mihai Barboiu - European Membrane Institute. France

"I have been working in the group of Dr. Barboiu for about a month by now and I am very happy to have been given this great opportunity. The work atmosphere here is very friendly and everybody is happy to help me learn about the new techniques. I am impressed to see what great extent of applications can be achieved with the triarylamines that I have synthesized in Strasbourg. If for water or ion transport or for enzymatic catalysis there lies a large potential within these molecules and it is very inspiring to learn about this."

Next DYNANO's QCN Training Course, Network & SB Meeting

1-5 September 2014

Stockholm, Sweden

It will be kindly organized by the Royal Institute of Technology.

More details will be available soon on the website.

Contact

MANAGEMENT

Dr. Mihai BARBOIU (Coordinator)
Institut Européen des Membranes Montpellier, France
Email: mihai.barboiu@univ-montp2.fr

Marion RITCHIE (Project Manager)
CNRS, Montpellier, France
Email: marion.ritchie@dr13.cnrs.fr

DISSEMINATION

Prof. Gilbert RIOS (Public Dissemination Manager)
European Membrane House, Belgium
Email : Gilbert.Rios@univ-montp2.fr

Dr. Sadika GUEDIDI (Dissemination Officer)
University Montpellier 2/ EMH, France
Email: Sadika.Guedidi@univ-montp2.fr