

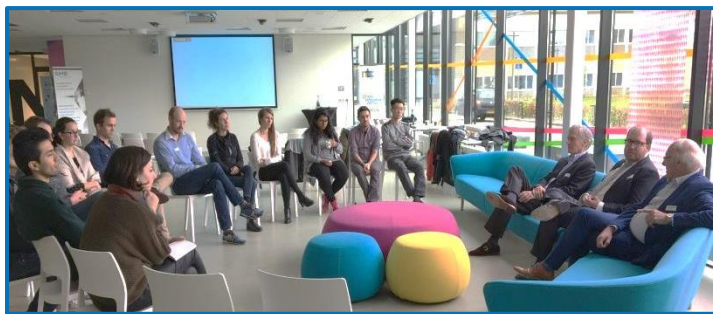


5th Newsletter – June 2017

5th Workshop at Noviosense BV— April 24-26th, 2017

Nijmegen, the Netherlands

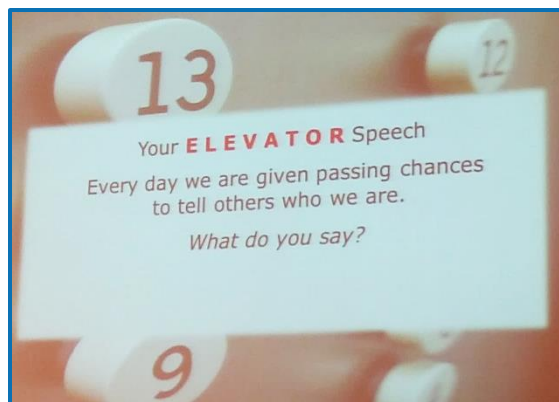
Noviosense BV, one of the industrial partners within BIOGEL, organized an exciting workshop focusing on medical coatings and sensor systems. During the first two days, speakers from academia and industry gave a series of lectures, which nicely bridged both sectors. These insights ranged from *Biosensing Methods* to *Starting a Medical Device Company*. In a round table, the young scientists had the opportunity to chat with Prof. Jos Put and Prof. Roeland Nolte, who shared their experiences as leading researchers at DSM and Radboud University, respectively. On the last day, all students formed groups to go through a case study and make an elaborated business plan, which was later that day presented in front of a committee, associated by members of Noviosense BV.



BIOGEL Summer School – 14-15th June, 2017

Poros, Greece

The Summer School was organized by CERTH and took place in the beautiful island of Poros. Its main objective was to broaden the students' horizons in terms of career planning and development. For this purpose, international speakers covered diverse topics, ranging from *Career by Plan - An Academic Perspective*, *Job Applications*, and *Startups: Financing Sources*.



5th Network Meeting – 16th June, 2017

Poros, Greece

During this meeting, all ESRs presented their latest scientific results to the other members of the consortium. This was certainly a good opportunity for the students to receive valuable feedback, develop novel ideas, and plan further collaborations. In this occasion, the BIOGEL network wore their self-designed t-shirts as part of the communication and dissemination strategy.



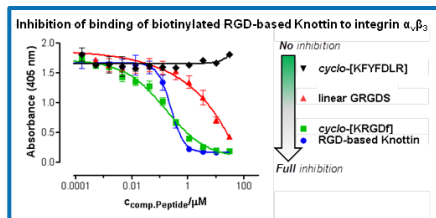
BIOGEL first research publications !!!

Three publications were accepted and are online since May 2017. Congratulations to the respective partners !

Dominik Bernhagen

A cost-effective and easy-to-use competition ELISA to evaluate binding of RGD-containing peptides to integrins $\alpha_v\beta_3$, $\alpha_v\beta_5$ and $\alpha_5\beta_1$ is developed by using a high-affinity knottin-RGD peptide. This system is suitable for high-throughput screening of (RGD-) peptide libraries.

DOI: 10.1021/acs.analchem.7b00554



Irene Buzzacchera

Chitosan hydrogels are functionalized with polymer brushes using photo-induced single electron transfer living radical polymerization to develop coatings for medical implants. The antifouling properties and biocompatibility of the material are nicely demonstrated.

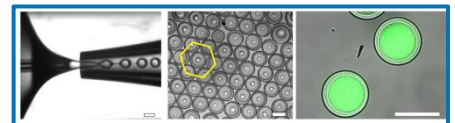
DOI: 10.1021/acs.biomac.7b00516



Luis P. B. Guerzoni

New responsive microgel capsules are produced via microfluidics to deliver biomolecules in a controlled manner. The capsules can be directly loaded with biomolecules during synthesis, resulting in a high encapsulation efficiency, while the properties of the hydrogel shell can be tuned to temporally tune the release kinetics.

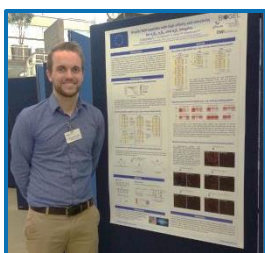
DOI: 10.1039/C7BM00322F



Events and dissemination

The BIOGEL PhD students have been very active in disseminating their work within the scientific community.

Poster at the 2017 Dutch Peptide Symposium by Dominik Bernhagen (Eindhoven, NL)



Talk at the 6th China-Europe Symposium on Biomaterials in Regenerative Medicine by Filippo Cipriani (Porto, PT)



Plenary speech and chairwoman at the Dutch Polymer Days by Paula de Almeida (Lunteren, NL)



Talk at the 14th UNESCO/IUPAC Conference on Macromolecules and Materials by Irene Buzzacchera (Stellenbosch, ZA)



Talk at the 11th Panhellenic Scientific Conference of Chemical Engineering by Evgenia Tsanaktsidou (Thessaloniki, GR)



Upcoming events

- 28th Annual Conference of the European Society for Biomaterials (ESB) – BIOGEL workshop, Athens, Greece, **04-08 September 2017**
- Workshop "in vitro, in vivo and ex vivo models" – DWI/Lifetec Group, Eindhoven, NL, **October 2017**
- **BIOGEL conference: Save the Date – Call for abstracts!! April 15-18, 2018 - Germany**

For detailed information about the BIOGEL network: www.biogel-mariecurie.eu

BIOGEL partners

