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NANONET

NEWSLETTER

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Finally

*Our next BioNanoNet newsletter will be published
in March 2015.*

Editorial

Dear Ladies and Gentlemen,

In our previous newsletter, we reported that the decisions of project proposals submitted by our partners and BioNanoNet to answer HORIZON 2020 calls are pending. Now we are pleased to be able to report that 4 of the 9 submitted projects, which have been supported by BioNanoNet during the proposal preparation phase, will be funded. Within this and the forthcoming editions of our newsletter, we would like to present these projects to you.

Furthermore, the BioNanoNet team started to work on the ideas and strategic visions discussed during the strategy workshop this September. Strengthening the position of Austrian experts by pooling them and by this gaining critical mass within a specific focus area is one of the activities of BioNanoNet. Together with our partners, we prepared a position document addressing the Federal Ministry for Transport, Innovation and Technology, showing the high potential of Austria's research community and companies in the field of nanomedicine. A great step forward would be, if it were possible for Austrian researchers and industry to participate and to be funded in a European funding program dedicated to nanomedicine e.g. ERA.Net EuroNanoMed II, which is already existing and will most likely launch the next call by end of 2015. We hope to be able to update you in the next newsletter about an answer from the Federal Ministry.

Finally, we are very happy that the international cooperation with China in the field of nanotechnologies and nanosciences made a big step forward: a call between Austria and the University of Shanghai was already opened in October (submission deadline is early in January 2015), and a call with the Chinese Academy of Sciences is forthcoming. You are highly welcome if you are searching for potential partners to answer to these calls – please contact us.

Now, it is our pleasure to wish you a Merry Christmas, relaxing holidays and a healthy, joyful and prosperous New Year!

Your BioNanoNet-team

BioNanoNet news

We have new phone numbers...



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BioNanoNet *success stories*

Wendy Smith Ocean Health Xprize

TU Graz sensor group helps to save the oceans

The Optode Team Austria (OTA) is participating in the Wendy Smith Ocean Health Xprize competition. The \$2 million dollar global competition challenges teams of engineers, scientists and innovators from all over the world to create pH sensor technology that will affordably, accurately and efficiently measure ocean chemistry from its shallowest waters... to its deepest depths. Our ocean is currently in the midst of a silent crisis. Rising levels of atmospheric carbon are resulting in higher levels of acidity. The potential biological, ecological, biogeochemical and societal implications are staggering. The absorption of human CO₂ emissions is already having a profound impact on ocean chemistry, impacting the health of shellfish, fisheries, coral reefs, other ecosystems and our very survival (see also the Wendy Schmidt Ocean Health XPrize Homepage, oceanhealth.xprize.org).

The Optode Team Austria (OTA) is a group of leading researchers in the field of optical chemical sensors formed by members of the Institute of Analytical Chemistry and Food Chemistry at Graz University of Technology (Austria) and the company PyroScience GmbH (Germany). OTA is the only landlocked team participating in the Wendy Schmidt Ocean Health XPrize competition, but with more than 15 years of experience in developing analytical equipment for marine research and the involvement in several marine research projects OTA has the expertise required to participate. The focus of research is the accurate, long time stable measurement of pH using optical sensors. The major part of work contributed to develop a device for the XPrize competition was done voluntarily after working hours by the developers, researchers and PhD students of the OTA. OTA is the only team from a landlocked country among of 18 Teams from all over the world.

The competition is carried out in 4 phases including accuracy test in the laboratory, test in long-term aquariums and deep-sea tests. OTA has passed the first testing phase in September and their instrument is currently long-term tested in the seawater tanks at the Monterey Bay Aquarium Research Institute (MBARI) in Monterey California.



The pH-Sensor developed at the TU Graz for accurate measurement of seawater acidity. The instrument is waterproof and can measure autonomously seawater pH without the connection to a computer. pH data are logged and stored in the device and can be downloaded to a computer.

More information: www.xprize.tugraz.at and www.oceanhealth.xprize.org

SeeingNano

Developing and Enabling Nanotechnology Awareness-Building through the Creation and Exchange of enhanced Communication and Visualisation Tools and Guidance for 'Seeing at the Nanoscale'

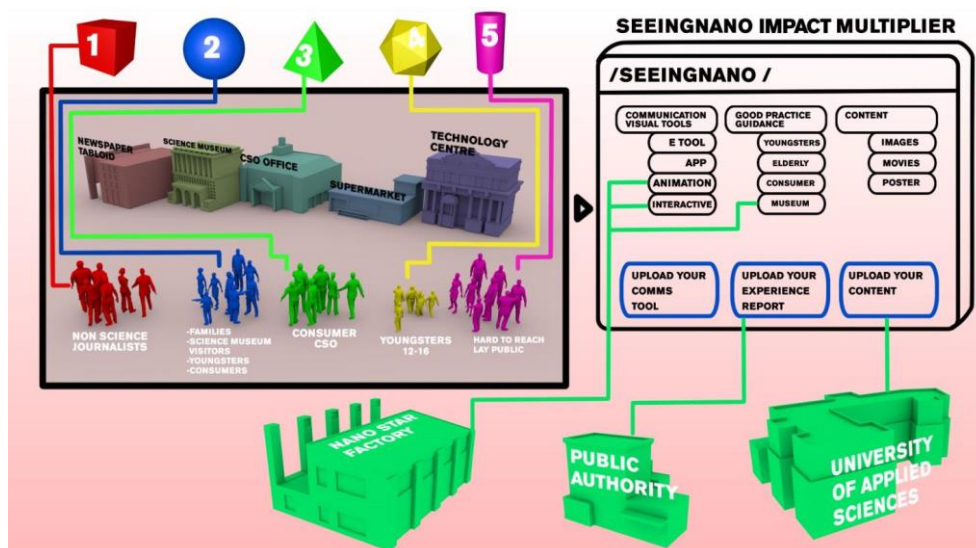
The 1st December 2014 saw the official start of one of the first Horizon 2020 NMP¹ projects: under the descriptive 'SeeingNano'-acronym, nine partner organisations from five different EU Member States will combine their excellences in graphics design, online gaming, state-of-the-art nanotechnology research, science-and technology communication and stakeholder engagement, in order to meet the European Commission's original call for 'Novel visualization tools for enhanced nanotechnology awareness (NMP-31-2014).

The **SeeingNano** project aims to develop and pilot a set of customisable visualisation tools and accompanying guidance manuals and good-practice examples on how to inform key audiences about nanotechnologies, in order to stimulate their awareness, increase their understanding and enable their informed balanced opinion-forming process. The tried and tested tools, guiding documents and examples will be published in a an online interactive repository, alongside a database of the science- and technology content gathered during this project, in order to ultimately encourage stakeholders of the nanotechnology community to use the repository content for their own public engagement exercises and to add to it with their own visualisation tools, guidance/experience reports, success stories, and flexibly usable science- and technology-based content.

It is the ultimate goal of the SeeingNano project to make available a **public online SeeingNano exchange** with **visualisation tools, guidance** and **content** for the **enhancement of nanotechnology awareness-building** exercises conducted by the nanotechnology stakeholder community. The backbone of this repository is formed by the SeeingNano output: a set of **good communication practices, developed and stress-tested** within the project, supported by captivating customisable visuali-

¹ NMP: Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing

sation tools, to demonstrate the raising of awareness and understanding and ultimately leading to **better informed decisions on nanotechnologies**.



In addition to making the SeeingNano tools and guidance available through the public repository, they will be **actively disseminated to industry, academic organisations, governmental organisations and other stakeholders** of the nanotechnology community, accompanied by the good-practice guidance, in order to support the increased public awareness raising and provide balanced information through the **use and customisation of the SeeingNano tools** and continued addition to the **SeeingNano online exchange** (i.e. a one-stop-shop for nanotechnology stakeholders find and mix and match (and upload their own) novel visualisation tools for nanotechnology awareness-building).

BNN supports the project as linked third party of the coordinator, will be one of the members of the external working group, contributing to the content to go into the visualisation tools.

SPIDIMAN – Meeting of the General Board

November 12th 2014, Bordeaux, France



The SPIDIMAN consortium met again at the premises of partner RESCOLL (<http://rescoll.fr>) in Bordeaux, France on November 12th, 2014. All participants from Great Britain, Luxembourg, France, Germany and Austria presented their progress made during the 2nd project year, agreed on the pathway for a successful 2nd project phase and discussed about the main challenges thinking of the ambitious goals of the SPIDIMAN project.

Facing the SPIDIMAN objectives of *developing a comprehensive coating technology, optimising the optical glucose measurement and control algorithms, building a new single-port AP device and validating the new single-port AP both in a preclinical and clinical setting*, Project Coordinator Univ.-Prof. Dr. Thomas Pieber, Director of HEALTH – Institute for Biomedicine and Health Sciences of JOANNEUM RESEARCH Forschungsgesellschaft mbH emphasized the importance of leading over the project from a rather technical approach to a clinical setting within the 2nd half of the project.

BioNanoNet is responsible for the day-to-day management of the whole project. As a part of the Project Management Team, it supports the Project Coordinator in all administrative issues as well as dissemination activities.



The SPIDIMAN consortium at Bordeaux, France on November 12th, 2014

Further information available at: www.spidiman.eu

BioNanoNet *retrospect*

BioNanoNet special poster awards in “Nanotoxicology”

BioNanoNet supports outstanding scientific research and science with the special poster award in the thematic area of “Nanotoxicology” to the best poster(s), presenting innovative approaches and high quality results. The awardies are also invited to submit their scientific articles to the peer-reviewed online-Journal EURO-NanoTox-Letters published by BioNanoNet.

This year’s poster awards go to:

- **BioNanoMed 2014**

GAMUCCI Olimpia (Istituto Italiano Di Tecnologia (IIT), Pontedera (PI), Italy), “Cerium dioxide nanoparticles selectively modulate C-C chemokine receptor 2 expression”



Andreas Falk presenting the Poster award at BioNanoMed 2014

© BioNanoMed

- **ÖPhG-Graz 2014**

BAUMGARTNER Ramona (Research Center Pharmaceutical Engineering GmbH, Graz, Austria;), “Nanoextrusion: A promising strategy for the oral drug delivery market”

- **CLINAM 2014**

1st prize: **RÖSSLEIN Matthias** (Materials – Biology Interactions Laboratory, Swiss Federal Laboratories for Materials Science and Technology (Empa), St. Gallen, Switzerland): “Comparability over Time and Space Due to Effective Interlaboratory Comparison”

2nd prize: **URBANICS Rudolf** (Nanomedicine Research and Education Center, Semmelweis University Budapest, Hungary): “Immunotoxicity of Nanodrugs, Nanocarriers & in-vitro – in-vivo Testing of Complement Activation Related Pseudoallergy – CARPA

- **NN14**

ANDERSEN Helene (Department of Pharmacy, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark), Poster title: “Structural Characterization and Cancer Cell Response of Cubosomes and Hexosomes”



NN14 poster prize award



NN14 poster session

Looking forward to receive your high quality manuscripts submitted to our Journal.

In 2015, the poster prize will be announced at the following conferences, we kindly invite you to submit your abstracts to the organizers to apply for poster presentation in the field of nanotoxicology:

- **BioNanoMed 2015**, 8th-10th of April, 2015, Graz, Austria,
www.bionanonmed.at
- **CLINAM 2015**, 28th June - 1st of July 2015, Basel, Switzerland,
www.clinam.org
- **NN15**, 7th – 10th of July, 2015, Thessaloniki, Greece,
www.nanotechnology.com/index.php/about-nn15

NanoSafety Cluster Meeting, NanoSafety Forum for Young Scientists and joint MODENA COST Action WG Meeting

7th -11th October 2014, Syracuse, Italy

The beautiful island Ortygia (Syracuse, Sicily) welcomed the participants with bright sun and warm weather at the start of an intensive week about nanosafety and modeling of nanotoxicology. Starting off with the **NanoSafety Cluster Meeting**, the first day was all about the newest findings in Material, Hazard, Exposure, Risk, etc. which were discussed amongst the Experts. Dr. Kai Savolainen (FIOH) opened the meeting followed by Dr. Anotnio Pietroiusti on behalf of the local organizing committee, being responsible for the stunning setting of these meetings. BioNanoNet attended the meeting as part of the NanoSafety Cluster being involved in the development of the **Closer to the Market Roadmap** (CTTM) on new rules and practices applicable for best practices in nanosafety and market implementation; as well as **Regulatory Research Roadmap** to deliver effective regulation of nanomaterial safety.

In preparation of the NanoSafety Cluster review meeting to be held in mid of December 2014, Nicolas Segebarth (on behalf of the European Commission) presented an overview of the **180M€ EU funding** (about 50 projects) **for nanosafety in FP7**.

Jointly organized by the NanoSafety Cluster and the MODENA Cost Action, the following two days were almost totally in hands of young promising scientists attending the **Young Scientist Forum**, who presented their nanosafety research and were facing the challenging questions from the experts in the audience. The forum was attended by almost 100 international participants working on EU projects and aspects of nanosafety in Europe. One of the participating young Scientists was Andrej Porovic (NIA) talking about EU FP7 project NanoDiode, of which BioNanoNet is partner (www.nanodiode.eu).

To follow-up the young researchers the abstracts and presenters' details can be downloaded at <http://www.nanosafetycluster.eu/nsc-meetings/nanosafety-forum-for-young-scientists-syracuse-2014.html>.

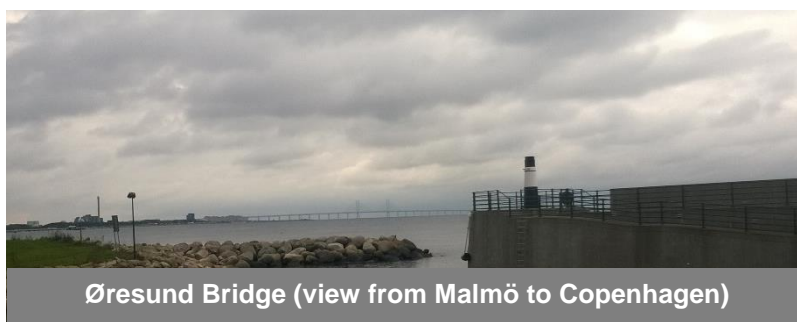
The final two days were dedicated to the **MODENA COST Action** where newest findings on “safe by design” as well as predictions of nanotoxicology were discussed.



NanoSafety Forum - Participants

Styria on Tour: Styrian Delegation in Southern Sweden and Copenhagen

20th – 24th October 2014



Øresund Bridge (view from Malmö to Copenhagen)

In recent years, Styria has developed into one of the most innovative regions in Europe. Moreover, with a **research and development rate of 4.7%**, Styria is among the most competitive European regions. An orientation towards innovation and export as well as the strong SME sector and the high density of higher education institutions are the secret to this success. “**Growth through innovation**” is thus the guiding principle of Styria’s economic strategy for the following years.

Organized by the ICS – Internationalisation Centre Styria, BioNanoNet was part of the Styrian Delegation to Malmö, Lund, Växjö and Copenhagen. 45 participants (politicians, universities, R&D institutions, companies and local media) joined the journey to the cold north, fighting against Lufthansa strikes to get in contact with the business in the so called **Øresund Region**.

Divided into four groups (Politics, Eco, Wood and Pharma) the tight programme fore-saw visits at companies and opportunities for B2B meetings to exchange excellence between Austria, Sweden and Denmark. Being part of the pharma group, BioNanoNet got the chance to visit:

- Medicon Village in Lund (value chain, from researchers to innovators and businessmen; www.mediconvillage.se)
- Construction sight of Max IV. Lab (next-generation synchrotron radiation facility www.maxlabiv.se)



- Medicon Valley in Skane and Copenhagen (more than 100 companies with own R&D; pharmaceutical companies; more than 200 medtech companies, etc. www.mediconvalley.com).
- Ideon Science Park (Scandinavia's and one of Europe's most successful meeting places for visionaries, entrepreneurs and for venture capital www.ideon.se/en/)
- University Lund (www.lunduniversity.lu.se)
- *Danish Industry* (<http://di.dk>)
- Novo Nordisk (www.novonordisk.com)
- DTU – Technical University of Denmark (www.dtu.dk)
- Lundbeck (www.lundbeck.com)



2nd SCIENTIX conference

24th – 26th October 2014, Brussels, Belgium

Scientix, the community for science education in Europe, promotes and supports Europe-wide collaboration among **STEM** (science, technology, engineering and maths) teachers, education researchers, policymakers and other STEM education professionals. It offers resources for innovative and engaging teaching, and best practices to attract pupils to science and related professions.

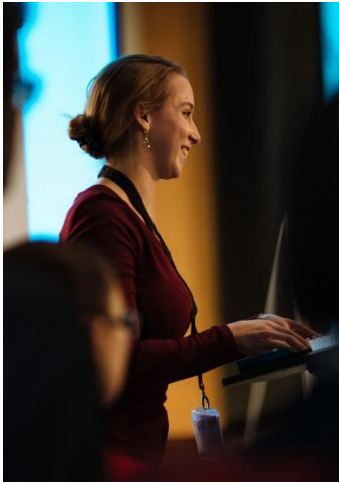
The **2nd SCIENTIX conference**, organized by EC and European Schoolnet, featured 70 talks, 14 workshops, 7 round tables and 25 exhibitions stands, one of which was **NanoDiode** project presented by BioNanoNet.



Olivia Fischer (Scientix Ambassador) and Sonja Hartl presenting NanoDiode
(picture by European Schoolnet)

598 participants from teachers, policymakers, researchers to project managers worked together to exchange information on latest science education theories and to get to know the many initiatives working in Europe to make science more attractive to young (and older) people.

Being part of the **EU projects** in science education, Sonja Hartl was able to present in a short pitch the concept of the projects initiative to **evaluate best practice in nanotech-education** to the whole audience. Following these presentations, more than 200 active interested teachers visited the project stand and got themselves informed about NanoDiode.



S. Hartl presenting NanoDiode to the audience at SCIENTIX conference
pictures by European SchoolNet

Many other nanotech-education projects were represented at SCIENTIX conference, amongst others NanOpinion (www.nanopinion.eu), NanoYou (www.nanoyou.eu), NanoEIS (www.nanoeis.eu). Experiments were presented, such as the magical sand, adsorbing oil (due to nano-structure).



BioNanoNet would like to thank European School Net and especially Agueda Gras-Velazquez for giving us the opportunity to be part of this amazing event.



Sonja Hartl together with Agueda Gras-Velazquez at NanoDiode project stand

NanoCON 2014

6th International Conference on Nanomaterials - Research & Application



5th – 7th November 2014, Brno, Czech Republic

NANOCON is the first conference in the Czech Republic focusing only on nanomaterials, on their **research, application and potential impact** on the environment and human health. BioNanoNet attended the event to present the NanoDiode project and its outreach and engagement activities.

440 participants talked about newest findings on nanostructures, industrial and environmental applications, bionanotechnology, nanomedicine as well as health, safety and environmental challenges, standardization and characterization; getting in touch with experts from all around Europe and to network and get together on new project ideas.

All information can be downloaded from <http://nanocon2014.tanger.cz/en/>

Kick-Off Meeting COST Action RADIOMAG

COST Action TD1402 - Multifunctional Nanoparticles for Magnetic Hyperthermia and Indirect Radiation Therapy (RADIOMAG)

12th – 13th November 2014, Brussels, Belgium

RADIOMAG aims to bring together and to organise the research outcomes from the different participating network members in a practical way to **provide clinicians with the necessary input to trial a novel anti-cancer treatment** combining **magnetic hyperthermia and radiotherapy**, also identifying future research objectives upon appraisal of the obtained results. RADIOMAG will eventually result in a compendium of **best practices for magnetic hyperthermia**.

RADIOMAG will generate **new and strengthen the existing synergies** between technical advances (thermal imaging / MH), new treatment concepts (combined targeting radiosensitisation and magnetic thermotherapy) and biocompatible coating in order to achieve a breakthrough in the clinical application of magnetic hyperthermia.

BioNanoNet is part of WG 5 – “Public Relations” to bring in the experiences gained within the NanoDiode dialogue and outreach project and to spread the knowledge on new medical treatment opportunities to the public.

Chair of the Action: [Dr Simo SPASSOV](#) (BE)

Vice Chair of the Action: [Dr Daniel ORTEGA](#) (ES)

Kick-off meeting COST ACTION UpConVert

COST Action CM1403 - The European upconversion network - from the design of photon-upconverting nanomaterials to biomedical applications

19th November 2014, Brussels, Belgium

Photoluminescent upconverting nanomaterials (UCNMs) are lanthanide-doped nanocrystals that emit visible light under near-infrared excitation. The unique anti-Stokes emission enables background-free luminescent detection, which is essential for many diagnostic applications, bioimaging and chemical sensing. UCNMs are highly photostable and display narrow line-like emissions that enable long observation times and multiplexed detection. Research on photon-upconversion is highly interdisciplinary, but currently fragmented without synchronised research actions in Europe. Further progress in the field is severely restricted by the lack of unified methods for the synthesis, functionalization and characterisation of UCNMs. Missing reference materials and commercial instrumentation make it impossible to compare the results from different groups and precludes the commercialisation of bioanalytical assays, biosensors and diagnostic tools based on these highly promising materials. Consequently, a European network is required to coordinate basic and applied research on UCNMs, standardise procedures, and to make European scientists as well as the high-tech industry aware of this emerging technology. This Action is based on a broad range of scientific disciplines to identify and solve numerous research problems such as upconversion enhancement, surface (bio)functionalisation, detection instrumentation, bioanalytical and diagnostic applications, as well as (nano)toxicity.



BioNanoNet is member of the management committee joining Austrian colleagues Prof. Torsten Mayr (Graz University of Technology) and Prof. Eleonore Fröhlich (Medical University of Graz). Furthermore, within WG 5 – “Toxicity” the EURO-NanoTox expertise is represented, and BioNanoNet will also support in terms of dissemination activities.

Chair of the Action: Dr Hans-Heiner Gorris (DE)

Vice Chair of the Action: Prof Tero Soukka (FI)

Conference Calendar



Winterschool "In Vitro/In Vivo Preclinical Models and Imaging in Musculoskeletal Tissue Regeneration"

When? 18 - 21 January 2015

Where? Radstadt, Austria

 [Provisional Programm Winterschool 2015](#)

For more information please visit the [event website](#).



PepTalk: The Protein Science Week

When? 19 - 23 January 2015

Where? San Diego, California

PepTalk: The Protein Science Week is one of the largest gatherings of protein science researchers in the United States, and when you bring together some of the most influential people in the field - big things happen!

For more information please visit the [event website](#).



eHealth in Europe

When? 27 January 2015

Where? Brussels, Belgium

Empowering Patients and Offering Better Connected Healthcare Services

This International Symposium provides a timely opportunity for practitioners and stakeholders across Europe to discuss the latest development and challenges in improving eHealth services across Europe and to gain more understanding in EU actions in the sector.

For more information please visit the [event website](#).

Novel Immunotherapeutics Summit 2015

When? 29 - 30 January 2015

Where? San Diego, California

13th Cytokines & Inflammation

This meeting provides a forum for researchers to discuss the latest advances in targeting cytokines and chemokines for therapeutic interventions, cytokines and metabolism, and cytokines signaling pathways.

7th Immunotherapeutics & Immunomonitoring

Leading experts will cover recent advances in immunotherapy and how they relate to various immunotherapy modalities, specific cancers, cell subsets, animal models, and tumor microenvironment.

3rd Immunogenicity and Immunotoxicity

Delegates will learn about ongoing research for tools to mitigate risks associated with the immunogenicity of therapeutic proteins.

For more information please visit the [event website](#).



Molecular Med TRI-CON 2015

When? 15 - 20 February 2015

Where? San Francisco, United States

Find out why the Tri-Conference is the industry's Preeminent Event on Molecular Medicine, focusing on Drug Discovery, Genomics, Diagnostics and Information Technology. Spanning six days this year, the Tri-Conference includes an expanded program that includes 6 symposia, over 20 short courses, and 17 conference programs.

For more information please visit the [event website](#).



Symposia "Clinical Cancer Immunotherapy"

When? 19 - 20 February 2015

Where? San Francisco, California

Translating Cancer Therapy from Promise to Reality

CA Part of the 22nd International Molecular Medicine Tri-Conference

For more information please visit the [event website](#).

Catalyses in Drug Discovery Summit 2015

When? 26 - 27 February 2015

Where? San Diego, California

The 20% early bird registration discount deadline is December 26, 2015.

This meeting seeks to create a forum for scientists to discuss how enzymology can increase the predictability of biochemical assays and analytical concepts that translate data into a mechanistic understanding of the interaction of drug molecules with their targets, as well as trying to understand these new targets and new ways of overcoming acquired resistance.

Register by December 26, 2014 and save up to \$375 with the 20% early bird discount! Or use the group discount and register 3 people for the price of 2 with the discount code rcdvb.

For more information please visit the [event website](#).



Nanotechnology Health & Safety - A Practical Approach

When? 27 February 2015

Where? Buxton, United Kingdom

HSL is running a one day training course on a practical approach to nanotechnology health and safety.

This course will help delegates to gain an understanding of the techniques and methods available to identify and control exposure to airborne nanomaterials.

For more information please visit the [event website](#).



Anwendungsmöglichkeiten der Partikelmesstechnik und Rheologie bei der Herstellung von Suspensionen und Emulsionen

When? 3 – 4 March 2015

Where? Würzburg, Germany

For more information and registration details please download the [programm](#).



SUN-SNO-GUIDENANO Sustainable Nanotechnology Conference 2015

When? 9 – 11 March 2015

Where? Venice, Italy

The SUN-SNO-GUIDENANO Sustainable Nanotechnology Conference 2015 is a forum for nanotechnology researchers, industry, and regulators to present and discuss research findings on the interface between nanotechnology and sustainability.

For more information please visit the [event website](#).

BioNanoNet will be on site at the SUN-SNO-GUIDENANO 2015 conference and will represent its members and promote their expertise to this event!



REACH - Registration Evaluation Authorisation and Restriction of Chemical Substances

When? 9 – 10 March 2015

Where? Graz, Austria

In the summer term of 2015 this training course takes place at the Graz University of Technology. Topics: Structure, objectives and principles of REACH; The REACH processes: registration, evaluation, authorization and restriction of substances; Chemical safety assessment and chemical safety report

Costs for participation: € 1.200,00. For further questions and registration please contact Mag.^a Michaela Cibulka (m.cibulka@tugraz.at, 0043 316-873-30403).

ImagineNano 2015



When? 10 – 13 March 2015

Where? Bilbao, Spain

NanoSpain 2015 Toxicology International Conference

Among the ImagineNano 2015 conferences, NanoSpain Toxicology 2015 "Environmental, health and societal implications of the development and use of nanotechnology" aims to bring together academic scientists, researchers and industry to exchange and share their experiences and research results on the interactions between nanomaterials and biological systems.

For more information please visit the [event website](#).



EU-U.S. Bridging NanoEHS Research Efforts Joint Workshop

When? 12 – 13 March 2015

Where? Venice, Italy

The purpose of the workshop is to review progress toward COR goals and objectives, clarify and communicate future plans, share best practices, and identify areas of cross-COR collaboration. Attendees will also participate in an interactive, simulated decision activity to explore information and communication gaps among the various nanoEHS communities.

For more information please visit the [event website](#).

BioNanoNet will be on site at this workshop and will represent its members and promote their expertise to this event!

Nanotech Dubai 2015

When? 16 – 18 March 2015

Where? Dubai, United Arab Emirates

SETCOR 2nd Edition Nanotech Dubai 2015 brings together leading scientists, researchers, engineers, practitioners, technology developers and policy makers in nanotechnology to exchange information on their latest research progress, innovation and business opportunities. It's among the most important events in terms of international regulatory policies and it's opened to the participation of private companies. It's unique venue for companies to promote equipment and technology.

For more information please visit the [event website](#).



Pharmaceutica 2015

5th International Conference on Pharmaceutics & Novel Drug Delivery Systems

When? 16 – 18 March 2015

Where? Dubai, United Arab Emirates

Pharmaceutica 2015 conveys recent developments in Nano-drug delivery systems, novel pre-formulation, formulation approaches and strategies have reoriented the focus of almost all the Pharmaceutical and Biopharmaceutical R&D's towards Novel Drug Delivery Systems (NDDS).

For more information please visit the [event website](#).





Biomarker Summit

When? 18 – 20 March 2015

Where? San Diego, California

[General Sessions \(Joint\)](#)

[8th Oncology Biomarkers](#)

[4th Neurological Biomarkers](#)

[4th Inflammatory / Immunological Biomarkers](#)

For more information please visit the [event website](#).



Workshop "Sensorik von Bedarfsgegenständen"

When? 24 – 25 March 2015

Where? Dresden, Germany

For more information please visit the [event website](#).

NANOSMAT Asia

When? 24 – 27 March 2015

Where? Kayseri, Turkey

2nd International Conference on Surfaces, Coatings and Nanostructured Materials – Asia (NANOSMAT-Asia)

NANOSMAT is an established name in Nanoscience and Nanotechnology conferences. NANOSMAT conferences provide a unique platform for discussing key aspects of materials-related Nanoscience and Nanotechnology.

For more information please visit the [event website](#).



NAMABIO ✨

NAMABIO Conference "Unified scientific approaches towards regenerative orthopaedics and dentistry"

When? 25 – 27 March 2015

Where? Venice, Italy

For more information please visit the website or / and send an email to info@namabio.eu.

For more information please visit the [event website](#).

MIT Europe Conference 2015



When? 25 – 26 March 2015

Where? Vienna, Austria

High Tech Conference of the Massachusetts Institute of Technology as guest in Vienna!

For more information please visit the [event website](#).

Excellence Square of Nanotechnologies and New Materials – MECSPE



When? 26 – 28 March 2015

Where? Parma, Italy

The Square will be the first international event in Italy on nanotech industrial applications in an exhibition entirely dedicated to different manufacturing sectors. The main aim of the event is to present to different industrial sectors all the opportunities, solutions and applications of nanotechnologies, through exhibition, demonstration, workshops and b2b meetings.

For more information please visit the [event website](#).



BioNanoMed Conference 2015

When? 8 – 10 April 2015

Where? Graz, Austria

Topics: Nanomaterials for Biomedical Applications & Regenerative Medicine - Nanotechnology for Detection, Diagnostics, Therapeutics & Monitorings - NanoPharmaceuticals & Drug Delivery Nanotechnology - Advances in Nano-Oncology

Thematic Sessions

I - Bioinspired Nano-Technologies for Nanomedicine

II - Ethics and Societal Issues in Nanomedicine

Poster Awards 2015: Poster submissions will automatically participate in - Erwin Schrödinger Society Poster Award and - Nano-Toxicology Award by **BioNanoNet**

Important Dates: Deadline for oral abstracts: 8 Jan 2015, Deadline for poster abstracts: 18 March 2015; End of early registration: 31 Jan 2015, End of online registration: 3 April 2015

For more information please visit the [event website](#).

BioNanoNet is organizing its 1st User Committee in the frame of BioNanoMed within the session: “Ethics and Societal Issues in Nanomedicine”.

The NanoDiode User Committee in Austria is focusing on “Nanomedicine” and dedicated to enable the transfer of knowledge and information about new scientific developments

that are expected to enter the market in form of innovative products or processes. We would like to give a voice to stakeholders and citizens to create innovative process and give new thinking and ideas to researchers and allow to assess research initiatives in order for it to become more responsible to societal needs.



SENN 2015

When? 12 – 15 April 2015

Where? Helsinki, Finland

SENN2015 – International Congress on Safety of Engineered Nanoparticles and Nanotechnologies

Goals of the Congress:

- examine and discuss safe practices in handling nanomaterials
- promote nanosafety at work with an emphasis on detection methods, tools and safer production processes
- improve the understanding of the biological basis of nanosafety

For more information please visit the [event website](#).

BioNanoNet will be on site at SENN 2015 and will represent its members and promote their expertise to this event!



1st European Conference on Pharmaceutics: Drug Delivery

When? 13 – 14 April 2015

Where? Reims, France

With hot topic lectures on:

- Drug Targeting, Liposomes and Nanoparticles, Oral Drug Delivery, Pulmonary Drug Delivery, Skin / Vaginal / Rectal / Nasal / Ear / Ocular Drug Delivery, Smart Drug Delivery Systems, Transdermal Drug Delivery, Vaccine Delivery

For more information please visit the [event website](#).



Nanotech 2015 **World Congress and Expo on Nanotechnology and Materials Science**

When? 13 – 15 April 2015

Where? Dubai, United Arab Emirates

Nanotechnology-2015 will provide researchers and others in the Nanotechnology field the ability to interact and advance their work through various speakers and workshop sessions.

For more information please visit the [event website](#).



Nanotech Tunisia 2015

When? 22 – 24 April 2015

Where? Hammamet, Tunisia

SETCOR Nanotech Tunisia 2015 International Conference & Exhibition will gather the global nanotechnology communities, including researchers, industrials, policymakers and investors.

Internationally renowned speakers will offer the attendees exceptional opportunities. The latest trends and discoveries in Nanoscience and Nanotechnology.

For more information please visit the [event website](#).



Diabetes Summit 2015

When? 27 – 29 April 2015

Where? Boston, Massachusetts, US

The Diabetes Summit has evolved to be the go-to conference to learn about the latest research in treatments and strategies, partnership opportunities, and the platform to network with academia, venture capitalists, government, biotech, big pharma and healthcare organizations.

REGISTRATION DISCOUNT DEADLINE: Sign up by February 27, 2015 and save with the 20% early registration discount!

For more information please visit the [event website](#).

Omics Evolution Summit

When? 21 – 22 May 2015

Where? Boston, Massachusetts, US

The **Omics Evolution Summit** is comprised of 4 parallel conferences:

[5th Next Generation Sequencing](#)

[2nd Metabolomics-Advances & Applications in Human Disease](#)

[Epigenomics & Novel Therapeutic Targets](#)

[Functional Genomics](#)

For more information please visit the [event website](#).



WCAM 2015

4th Annual World Congress of Advanced Materials-2015

When? 27 – 29 May 2015

Where? Congqing, China

The 4th WCAM-2015 plans to shoot for 300+ oral presentations in Breaking Research of Advanced Materials Science and Technologies, Optical, Electronic and Magnetic Materials, Functional Materials, Structural Materials, Nanomaterials, Adaptive Structures and Industrial Symposia of Advanced Materials from experts, academicians, senior scientists, industry executives and project leaders from 50+ countries.

For more information please visit the [event website](#).

NANO
ENERGY

NANOENERGY 2015

When? 1 – 3 June 2015

Where? Manchester, United States

International Conference on Nanotechnology, Nanomaterials & Thin Films for Energy Applications.

For more information please visit the [event website](#).



NanoDiode Multi-Stakeholder Dialogue on Nanoinnovation and Nanomedicine

When? 5 June 2015

Where? Graz, Austria

The European FP7 project NanoDiode (www.nanodiode.eu) establishes an innovative, coordinated programme for outreach and dialogue throughout Europe. BioNanoNet is organizing the NanoDiode Multi-Stakeholder Dialogues in the frame of International Student Congress. Get to know and discuss important societal and ethical challenges and together identify desired fields of innovation.

 [International_Student_Congress_2014_NanoDiode_Mult-Stakeholder_Dialogue.pdf](#)

For further information please contact: sonja.hartl@bionanonet.at

BioNanoNet is organizing the NanoDiode Multi-Stakeholder Dialogue on Nanoinnovation and Nanomedicine!



International Student Congress 2015

When? 4 - 6 June 2015

Where? Graz, Austria

The ISC offers 3 days of keynote-sessions, workshops and presentations. The program will predominately be designed for students and young researchers. It will be a unique possibility to give a presentation or present a poster in front of other students. Also, a thorough social program will be offered, including a city tour through Graz, a visit to the city hall etc.

 [International_Student_Congress_2014_NanoDiode_Mult-Stakeholder_Dialogue.pdf](#)

For more information please visit the [event website](#).

BioNanoNet will take part at International Student Congress 2015 as co-organizer of the NanoDiode Multi-Stakeholder Dialogue and will represent its members and promote their expertise to this event!

24th International Conference "Ecology and Safety"

When? 4 – 8 June 2015

Where? Elenite, Bulgaria

- Energy, Climate and Global Security in the 21st Century
- Ecology of Air, Soil and Water
- Health and Safety
- Civil Protection and Disaster Management

For more information please visit the [event website](#).

17th International Conference "Materials, Methods and Technologies"

When? 7 – 11 June 2015

Where? Elenite, Bulgaria

Topics: Materials, Methods and Tools for Innovation, Methods and Technologies

For more information please visit the [event website](#).



EURONANOFORUM 2015

When? 10 – 12 June 2015

Where? Riga, Latvija

The EuroNanoForum is a meeting point for industry, science and policy. Organised biannually since 2003, it has grown into the most significant European networking conference focusing on innovations in nanotechnologies, advanced materials and associated industry sectors.

For more information please visit the [event website](#).

BioNanoNet will be on site at the EURONANOFORUM 2015 and will represent its members and promote their expertise to this event!



AMAM 2015

When? 7 – 12 June 2015

Where? Castellaneta Marina, Taranto, Italy

International Conference on Applied Mineralogy & Advanced Materials

For more information please visit the [event website](#).

Nanotech 2015 - Advanced Materials & Applications



When? 14 – 17 June 2015

Where? Washington DC, United States

Nanotech 2015 co-locates with the largest global innovation program in physical and life sciences. The joint programs include the TechConnect World Innovation Conference, the National Innovation Summit and the National SBIR/STTR Conference.

For more information please visit the [event website](#).

Nanotech France 2015



When? 15 – 17 June 2015

Where? Paris, France

Nanotech France 2015 brings together leading scientists, researchers, engineers, practitioners, technology developers and policy makers in nanotechnology to exchange information on their latest research progress and innovation.

For more information please visit the [event website](#).

Partnering for MedTech & Pharma



When? 17 June 2015

Where? Garching, Germany

This B2B Matchmaking Event brings together innovative medtech, pharma, IT- & service providers as well as relevant suppliers from several countries seeking to collaborate to mutual benefit. Activity will focus on one-to-one 30-minute pre-scheduled meetings.

For more information please visit the [event website](#).

Graphene Week 2015

When? 22 – 26 June 2015

Where? Manchester, Massachusetts

Its focus is on science, technology and emerging applications of graphene, related 2D materials and heterostructures. The scientific programme of the Graphene Week 2015 will address following areas:

- Fundamental physics of graphene and related 2D materials
- Chemistry and biology studies of graphene
- Applications of graphene and related 2D materials in electronics, photonics, spintronics, and sensors
- Applications of graphene in energy, including photovoltaics, energy storage, fuel cells and hydrogen storage
- Graphene-based nanocomposites: recent scientific studies and applications
- Graphene-related health and environment research
- Overview of graphene in biomedical applications
- Large scale graphene production

For more information please visit the [event website](#).



NN15 Nanotechnology Conference

When? 7 – 10 July 2015

Where? Thessaloniki, Greece

12th International Conference on Nanosciences and Nanotechnologies

The NN is the Internationally established world-class event in Nanosciences and Nanotechnologies (N&N) that focuses on the latest advances on N&N and promotes profound scientific discussions between scientists, researchers from different disciplines and market leaders.

For more information please visit the [event website](#).

BioNanoNet will be on site at the NN15 conference and will represent its members and promote their expertise to this event!



2nd International Conference on
Biomedical Engineering and Systems
Barcelona, Spain - July 13-14, 2015



2nd International Conference on Biomedical Engineering and Systems

When? 13 – 14 July 2015

Where? Barcelona, Spain

The 2nd International Conference on Biomedical Engineering and Systems (ICBES) is a specialized conference covering many different topics related to theories and applications of biomedical sciences and engineering.

April 1, 2015: paper submission deadline - April 15, 2015: notification of authors - April 20, 2015: early bird registration deadline

For more information please visit the [event website](#).



International Conference on
Bioengineering and Biotechnology (ICBB'15)
Barcelona, Spain - July 15-17, 2015



ICBB 15

When? 15 – 17 July 2015

Where? Barcelona, Spain

International Conference on Bioengineering and Biotechnology

The International Conference on Bioengineering and Biotechnology (ICBB) is a specialized conference covering different topics related to theories and applications of biologically-related technology and engineering.

April 1, 2015: paper submission deadline

April 15, 2015: notification of authors

April 20, 2015: early bird registration deadline

For more information please visit the [event website](#).



6th International Conference on
Nanotechnology: Fundamentals and Applications
Barcelona, Spain - July 15-17, 2015



ICNFA 15

When? 15 – 17 July 2015

Where? Barcelona, Spain

6th International Conference on Nanotechnology: Fundamentals and Applications

ICNFA is a series of international conferences which are held yearly. These conferences focus on all aspects of Nanotechnology.

April 1, 2015: paper submission deadline

April 15, 2015: notification of authors

April 20, 2015: early bird registration deadline

For more information please visit the [event website](#).

ISPPP 2015



35th International Symposium, Exhibit and Workshops on Separation and Characterization of Biologically Important Molecules

Early-bird Registration Deadline is February 15

Abstract Submission Deadline is March 31

For more information please visit the [event website](#).

6th International Conference "Education, Research & Development"

When? 4 – 8 September 2015

Where? Elenite, Bulgaria

Topics:

- Knowledge and Innovation: A Primary Factor for Productivity and Economic Growth
- Learning and Virtual Innovations
- Higher Education: Globalisation and Internationalisation
- Scientific Research: Results and Perspectives
- Socialisation of Youth in Contemporary Society
- Education, Individual and Society

For more information please visit the [event website](#).

9th International Conference "Language, Individual & Society"

When? 7 – 11 September 2015

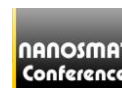
Where? Elenite, Bulgaria

Topics:

- Culture, Civilisation and Society
- Language Teaching and Learning
- Linguistics
- Individual and Psychology

For more information please visit the [event website](#).

NANOSMAT conference



When? 13 – 16 September 2015

Where? Manchester, United Kingdom

NANOSMAT is a premier conference in the field of materials related Nanoscience, Engineering and Nanotechnology. The conference fosters the gathering of talented and truly international people to exchange novel ideas, share new knowledge and technical know-how in the broad fields of nanoscience and technology.

For more information please visit the [event website](#).

7th International Symposium on Nanotechnology, Occupational and Environmental Health



When? 18 – 22 October 2015

Where? Legend Safari Resort, Limpopo Province, South Africa

Pre-congress workshops will be held on October 18.

The aim of the congress is to discuss health and safety issues surrounding nanoparticles and nanotechnologies. To provide insight into the research and actions for assuring the safety and therefore future success of nanotechnologies.

For more information please contact leigh@londocor.co.za or visit the [event website](#).



Novel Cancer Therapeutics Summit

When? 5 – 6 November 2015

Where? San Francisco, California

- 4th Cancer Epigenetics
- 4th Oncology Partnering & Deal-Making
- Cancer Diagnostics & Cancer Metabolism

For more information please visit the [event website](#).



Pre-Clinical and Clinical Trial Summit

When? 5 – 6 November 2015

Where? San Diego, United States

- Animal Models to Clinical Trials
- Clinical Trial Operation
- Clinical Data Management

For more information please visit the [event website](#).



ACN`15

When? November 2015- *Save the date!*

Where? Dubai, United Arab Emirates

The aim of ACN'15 is to bring together the Asia-Pacific and International community working in the field of nanotechnology to foster an environment conducive to present advancements in Nanotechnology. This conference will also provide an ideal opportunity to develop new collaborations and partnerships with experts in the field. This year's conference guarantees to be a great occasion to share knowledge and contribute to the ever-growing scientific world on Nanotechnology.

For more information please visit the [event website](#).

JEP 2015

4th edition of the European Symposium on Photocatalysis

When? December 2015 - *Save the date!*

Where? Paris, France

More information will soon be available on www.photocatalysis-federation.eu/jep2015!

Finally

We would like to thank the following persons for their contributions for this BioNanoNet newsletter:

Dr. Steffi Friedrichs (Nanotechnology Industries Association)
Prof. Dr. Torsten Mayr (Graz University of Technology)

Please do not hesitate to contact us if you would like to give us any suggestions or feedback!

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