



# Nanomedicines ALLIANCE

## NanoMed Digest

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- Meet with industry colleagues, government partners, and other stakeholders
- Help define the issues of science, regulation, and policy
- Participate in our ongoing advocacy, regulatory, and scientific efforts
- Join as a trial member for six months at half the annual fee

### Nanotechnology Signature Initiative Webinar Series

The US National Nanotechnology Initiative (NNI) has launched a webinar series sponsored by Federal agencies participating in the *Nanotechnology Knowledge Infrastructure (NKI)* and the *Nanotechnology for Sensors and Sensors for Nanotechnology (Sensors)* Signature Initiatives. Upcoming webinars include [A Regulatory Case Study for the Development of Nanosensors](#) on November 3, 2015. According to FDA, “this webinar will provide an overview of regulatory requirements for sensor in vitro diagnostic devices at FDA, and a case study on a submission from a recently cleared in vitro nanotechnology-enabled sensor device.”

### Reviews and Other Publications of Interest

[Nanomedicine](#), Vol. 10, No. 20. *Nanomedicine-themed journal issue.*

[SiR–Hoechst is a far-red DNA stain for live-cell nanoscopy](#). *Nature Communications*, Vol. 6, No. 8497, October 2015. Gražvydas Lukinavičius, Claudia Blaukopf, Elias Pershagen, Alberto Schena, Luc Reymond, Emmanuel Derivery, Marcos Gonzalez-Gaitan, Elisa D’Este, Stefan W. Hell, Daniel Wolfram Gerlich, Kai Johnsson.

[Enzyme renaturation to higher activity driven by the sol-gel transition: Carbonic anhydrase](#). *Scientific Reports*, Vol. 5, No. 14411, September 2015. Vladimir V. Vinogradov, David Avnir.

[Anticancer Platelet-Mimicking Nanovehicles](#). *Advanced Materials*, September 2015. Quanyin Hu, Wujin Su, Chengen Qian, Chao Wang, Hunter N. Bomba, Zhen Gu.

[Liquid Crystal Enabled Early Stage Detection of Beta Amyloid Formation on Lipid Monolayers](#). *Advanced Functional Materials*, Vol. 25, Issue 38, pp. 6050 – 6060, October 2015. Monirosadat Sadati, Aslin Izmitli Apik, Julio C. Armas-Perez, Jose Martinez-Gonzalez, Juan P. Hernandez-Ortiz, Nicholas L. Abbott, Juan J. de Pablo.

[DNA Nanostructures as Smart Drug-Delivery Vehicles and Molecular Devices](#). *Trends in Biotechnology*, Vol. 33, Issue 10, pp. 596 – 594, October 2015. Veikko Linko, Ari Ora, Mauri A. Kostianen.

[Germanium-Vacancy Single Color Centers in Diamond](#). *Scientific Reports* Vol. 5, No. 12882, August 2015. Takayuki Iwasaki, Fumitaka Ishibashi, Yoshiyuki Miyamoto, Yuki Doi, Satoshi Kobayashi, Takehide Miyazaki, Kosuke Tahara, Kay D. Jahnke, Lachlan J. Rogers, Boris Naydenov, Fedor Jelezko, Satoshi Yamasaki, Shinji Nagamachi, Toshiro Inubushi, Norikazu Mizuochi, Mutsuko Hatano.

[Biodegradable pH-Sensitive Poly\(ethylene glycol\) Nanocarriers for Allergen Encapsulation and Controlled Release](#). *Biomacromolecules*, Vol. 16, Issue 10, pp. 3103 – 3111, August 2015. Hannah Pohlit, Iris Bellinghausen, Martina Schömer, Bärbel Heydenreich, Joachim Saloga, Holger Frey.

[Highly Sensitive and Selective Sensor Chips with Graphene-Oxide Linking Layer](#). *ACS Applied Materials and Interfaces*, Vol. 7, No. 39, pp. 21727–21734, September 2015. Yury V. Stebunov, Olga A. Aftenieva, Aleksey V. Arsenin, Valentin S. Volkov.

For further information, or if you have any questions about the Nanomedicines Alliance, please contact the Nanomedicines Alliance Secretariat at 1-202-230-5653.

**[Sequence heuristics to encode phase behaviour in intrinsically disordered protein polymers.](#)** Nature Materials, Vol. 14, pp. 1164, 1171, September 2015. Felipe García Quiroz, Ashutosh Chilkoti.

**[Identification of single nucleotides in MoS2 nanopores.](#)** Nature Nanotechnology, September 2015. Jiandong Feng, Ke Liu, Roman D. Bulushev, Sergey Khlybov, Dumitru Dumcenco, Andras Kis, Aleksandra Radenovic.

**[Nanoparticle biointerfacing by platelet membrane cloaking.](#)** Nature, Vol. 526, pp. 118 – 121, October 2015. Che-Ming J. Hu, Ronnie H. Fang, Kuei-Chun Wang, Brian T. Luk, Soracha Thamphiwatana, Diana Dehaini, Phu Nguyen, Pavimol Angsantikul, Cindy H. Wen, Ashley V. Kroll, Cody Carpenter, Manikantan Ramesh, Vivian Qu, Sherrina H. Patel, Jie Zhu,

William Shi, Florence M. Hofman, Thomas C. Chen, Weiwei Gao, Kang Zhang, Shu Chien, Liangfang Zhang.

**[Component-Specific Analysis of Plasma Protein Corona Formation on Gold Nanoparticles Using Multiplexed Surface Plasmon Resonance.](#)** Small, September 2015. Abhijeet Patra, Tao Ding, Gokce Engudar, Yi Wang, Michal Marcin Dykas, Bo Liedberg, James Chen Yong Kah, Thirumalai Venkatesan, Chester Lee Drum.

**[Biofouling-Resilient Nanoporous Gold Electrodes for DNA Sensing.](#)** Analytical Chemistry, Vol. 87, Issue 17, pp. 8618 – 8622, August 2015. Pallavi Daggumati, Zimple Matharu, Ling Wang, Erkin Seker.

## Conferences and Workshops

**[Applied Nanotechnology and Nanoscience International Conference, 5 – 7 November 2015, Paris France](#)**  
Nanomedicine  
Nanobiotechnology

**[Crossing Biological Barriers – Advances in Nanocarrier Design for Targeted Delivery, 9 – 11 November 2015, Dresden, Germany](#)**  
Biodistribution and In Vivo Imaging of Nanoparticles  
Scale-up, Translational and Regulatory Issues of Drug Delivery Systems  
Targeted Drug Delivery Systems (Oral, Ocular, Pulmonary, Dermal, Blood Brain Barrier Crossing)

**[Infectious Diseases and Nanomedicines 2015, 15 – 18 December 2015, Kathmandu, Nepal](#)**  
Cellular and Molecular Microbiology of Infectious Diseases  
Epidemiology and Infectious Diseases Surveillance  
Microbiome in Health and Infectious Diseases

Immune Response against Infectious Pathogens  
Antimicrobials, Vaccines and Alternatives

**[NanoEngineering for Medicine and Biology Conference, 21 – 24 February 2015, Houston, TX](#)**  
Nanolmaging  
Nanoparticle-based delivery  
Nano and Microfluidics  
Nano-Phenomena in Living Systems  
Nanomaterials Design and Manufacturing

**[10th World Meeting on Pharmaceutics, Biopharmaceutics, and Pharmaceutical Technology, 4 – 7 April 2016, Glasgow, United Kingdom](#)**  
2D and 3D printing in drug delivery  
Nanoparticles  
Cellular drug transport

**[Bionanomaterials Conference, 8 – 11 May 2016, Varna Bulgaria](#)**  
Synthesis  
Characterization  
Toxicity  
Therapeutics

## Reference Section

**Nanobio- and Nanomedicine Companies**  
[Listed alphabetically](#)

**Nano Organizations**

[National Center for Toxicological Research \(NCTR\)](#)

[National Nanotechnology Initiative \(NNI\)](#)

[Nano Science and Technology Consortium \(NSTC\)](#)

[Nano Science and Technology Institute \(NSTI\)](#)

[The Nanotechnology Institute \(NTI\)](#)

**Nano Journals**

[American Chemical Society -- Nano Letters](#)

[Institute of Physics – Nanotechnology](#)

[Journal of Nanoscience and Nanotechnology](#)

[NanoTrends - A Journal of Nanotechnology and its Applications](#)

[BCC Research -- Nanotechnology Reports](#)

[Nanomedicine: Nanotechnology, Biology, and Medicine](#)

[Nanomedicine](#)

[Nature Nanotechnology](#)

**Contact**

For further information, or if you have any questions about the Nanomedicines Alliance, please contact the Nanomedicines Alliance Secretariat at 1-202-230-5653 or [info@nanomedicines-alliance.org](mailto:info@nanomedicines-alliance.org).

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