



Nanomedicines ALLIANCE

NanoMed Digest

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Join the Nanomedicines Alliance. Contact us at info@nanomedicines-alliance.org.

- 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

Highlights

AEINA Nanotechnology Association

A new nanotechnology industry association, [AEINA](#), has incorporated in Spain to support companies using nanotechnology, to encourage investment in nanotechnology-based innovation, and to raise awareness of the advantages of nanotechnology. The organization is expected to begin operating in September 2016.

Reviews and Other Publications of Interest

[Move Over ADCs: Nanoparticle-Drug Conjugates Are Joining The Cancer Fight.](#) Life Science Leader, July 2016. Louis Garguilo.

[Theranostic near-infrared fluorescent nanoplatform for imaging and systemic siRNA delivery to metastatic anaplastic thyroid cancer.](#) Proceedings of the National Academy of Sciences, Vol. 113, No. 28, July 2016. Yanlan Liu, Viswanath Gunda, Xi Zhu, Xiaoding Xu, Jun Wu, Diana Askhatova, Omid C. Farokhzad, Sareh Parangi, Jinjun Shia.

[Rationally Designed 2-in-1 Nanoparticles Can Overcome Adaptive Resistance in Cancer.](#) ACS Nano, Vol. 10, No. 6, pp. 5823 – 5834, June 2016. Aaron Goldman, Ashish Kulkarni, Mohammad Kohandel, Prithvi Pandey, Poornima Rao, Siva Kumar Natarajan, Venkata Sabbiseti, Shiladitya Sengupta.

[Leach-proof magnetic thrombolytic nanoparticles and coatings of enhanced activity.](#) Scientific Reports, Vol. 6, Article No. 28119, June 2016. Andrey S. Drozdov, Vasiliy V. Vinogradov, Ivan P. Dudanov, Vladimir V. Vinogradov.

[Surface area is the biologically most effective dose metric for acute nanoparticle toxicity in the lung.](#) Journal of Aerosol Science, April 2016. Otmar Schmid, Tobias Stoeger.

[Migration Phenotype of Brain-Cancer Cells Predicts Patient Outcomes.](#) Cell Reports, June 2016. Chris L. Smith, Onur Kilic, Paula Schiapparelli, Hugo Guerrero-Cazares, Deok-Ho Kim, Neda I. Sedora-Roman, Saksham Gupta, Thomas O'Donnell, Kaisorn L. Chaichana, Fausto J. Rodriguez, Sara Abbadi, JinSeok Park, Alfredo Quiñones-Hinojosa, Andre Levchenko.

[Mirror-enhanced super-resolution microscopy.](#) Light: Science & Applications, Vol. 5, June 2016. Xusan Yang, Hao Xie, Eric Alonas, Yujia Liu, Xuanze Chen, Philip J Santangelo, Qiushi Ren, Peng Xi, Dayong Jin.

[Bioinspired Synthesis of All-in-One Organic-Inorganic Hybrid Nanoflowers Combined with a Handheld pH Meter for On-Site Detection of Food Pathogen.](#) Small, Vol. 10, Issue 23, pp. 3094 – 3100, June 2016. Ranfeng Ye, Chengzhou Zhu, Yang Song, Qian Lu, Xiaoxiao Ge, Xu Yang, Mei-Jun Zhu, Dan Du, He Li, Yuehe Lin.

[Biomimetic proteolipid vesicles for targeting inflamed tissues.](#) Nature Materials, May 2016. R. Molinaro, C. Corbo, J. O. Martinez, F. Taraballi, M. Evangelopoulos, S. Minardi, I. K. Yazdi, P. Zhao, E. De Rosa, M. B. Sherman, A. De Vita, N. E. Toledano Furman, X. Wang, A. Parodi, E. Tasciotti.

For further information, or if you have any questions about the Nanomedicines Alliance, please contact the Nanomedicines Alliance Secretariat at info@nanomedicines-alliance.org.

[A pH-activatable nanoparticle with signal-amplification capabilities for non-invasive imaging of tumour malignancy.](#) Nature Nanotechnology, May 2016. Peng Mi, Daisuke Kokuryo, Horacio Cabral, Hailiang Wu, Yasuko Terada, Tsuneo Saga, Ichio Aoki, Nobuhiro Nishiyama, Kazunori Kataoka.

[In Vivo Self-Powered Wireless Cardiac Monitoring via Implantable Triboelectric Nanogenerator.](#) ACS Nano, June 2016. Qiang Zheng, Hao Zhang, Bojing Shi, Xiang Xue, Zhuo Liu, Yiming Jin, Ye Ma, Yang Zou, Xinxin Wang, Zhao An, Wei Tang, Wei Zhang, Fan Yang, Yang Liu, Xilong Lang, Zhiyun Xu, Zhou Li, Zhong Lin Wang.

[RNAi targeting multiple cell adhesion molecules reduces immune cell recruitment and vascular inflammation after myocardial infarction.](#) Science Translational Medicine, Vol. 8, Issue 342, June 2016. Hendrik B. Sager, Partha Dutta, James E. Dahlman, Maarten Hulsmans, Gabriel Courties, Yuan Sun, Timo Heidt, Claudio Vinegoni, Anna Borodovsky, Kevin Fitzgerald, Gregory R. Wojtkiewicz, Yoshiko Iwamoto, Benoit Tricot, Omar F. Khan, Kevin J. Kauffman, Yiping Xing, Taylor E. Shaw, Peter Libby, Robert Langer, Ralph Weissleder, Filip K. Swirski, Daniel G. Anderson, Matthias Nahrendorf.

Conferences and Workshops

[FDA Global Summit on Regulatory Science: Nanotechnology Standards and Applications, 7 – 9 September 2016, Bethesda, MD](#)

[Bioelectronic Medicine – Technology Targeting Molecular Mechanisms, 21 – 23 September 2016, New York, NY](#)

- Defining circuits
- Cell biology and cancer
- Molecular sensing
- Clinical updates
- Brain interfaces

[Summer School of International Society for Nanomedicine, 26 – 28 September 2016, Seoul, South Korea](#)

- In vivo targeting
- Clinical translation of in vitro diagnostics

[International Conference on Nanomedicine and Nanobiotechnology, 28 – 30 September 2016, Paris, France](#)

- Targeted drug delivery and nanocarriers
- Nanomedicine for cancer diagnosis & therapy
- Biological & medical nanodevices and biosensors
- Tissue engineering and regenerative nanomedicine
- Toxicology and risk assessment of nanomedicine systems

[Applied Pharmaceutical Nanotechnology, 19 October 2016, Cambridge, MA](#)

- Nanotechnology and Diagnostics
- Theranostics and Personalized Medicine
- Nanotechnology and Immunotherapy
- FDA / Regulatory Guidance
- Nanotechnology in Preclinical and Clinical Development

[International Conference for Nanotechnology in Medicine, 7 – 9 November 2016, Warsaw, Poland](#)

- Tissue engineering and biomaterial science
- Nanoscale tissue scaffolds
- Nanoscale biomaterial surface modification
- Enzyme responsive tissue scaffolds
- Guiding stem cell differentiation
- Biosensors

[World Summit on Nanotechnology and Nanomedicine Research, 28 – 30 November 2016, Dubai, UAE](#)

- Regenerative medicine
- Translation
- Toxicology
- Carbon nanotubes

Reference Section

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 \(NTI\)](#)

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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](#)

[Future Medicine](#)

[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.

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