



## REGULATORY DEVELOPMENTS

### **Cientifica Releases 2011 Report on Global Nanotechnology Funding and Impact**

Cientifica, a nanotechnology information and forecasting company has issued its yearly report on global nanotechnology. This year's report also includes an analysis of how effective government investing will be, utilizing data from publications such as the Global Competitiveness Report, issued by the World Economic Forum. Key findings include that in terms of Purchasing Power Parity, China for the first time in 2011 will spend more than the US on nanotechnology, and that the US, Germany, Taiwan, and Japan have the best combination of academia, tech companies, skilled workforces, and capital to take advantage of these emerging technologies. By 2015, almost \$250 million will have been invested in nanotechnology across the world.

Download the full report here: <http://cientifica.eu/blog/wp-content/uploads/downloads/2011/07/Global-Nanotechnology-Funding-Report-2011.pdf>

## REVIEWS AND OTHER PUBLICATIONS OF INTEREST

1. **Detection of Multiple Disease Indicators by an Autonomous Biomolecular computer.** Nano Letters, August 2011, Vol. 11, No. 7, pp. 2989-2996. Binyamin Gil, Maya Kahan-Hanum, Natalia Skirtenko, Rivka Adar, and Ehud Shapiro.  
<http://pubs.acs.org/doi/abs/10.1021/nl2015872>
2. **A Study on the Thermochemotherapy Effect of Nanosized As<sub>2</sub>O<sub>3</sub>/MZF Thermosensitive Magnetoliposomes on Experimental Hepatoma *in vitro* and *in vivo*.** Nanotechnology, 5 August 2011, Vol. 22, No. 31. Li Wang, Jia Zhang, Yanli An, Ziyu Wang, Jing Liu, Yutao Li, and Dongsheng Zhang.  
<http://iopscience.iop.org/0957-4484/22/31/315102>
3. **Selected Peer-Reviewed Articles from the NANO KOREA 2010 Symposium.** Journal of Nanoscience and Nanotechnology, July 2011, Vol. 11, No. 7, pp.5599-5602. Moongyu Jang, Il Ki Han, Won-Seok Chang, Minah Suh, Heyonsik Cheong, Wan Soo Yun, Kyoung-Jin Choi, Geun Young Yeom, Seongjae Lee, Joo Yull Rhee, Eun Kyu Kim.

## CONFERENCES AND WORKSHOPS

### ***Biological Responses to Nanoscale Particles***

September 11-15, 2011, Essen, Germany

- Organised by Priority Programme (SPP1313) of Deutsche Forschungsgemeinschaft (DFG) and University of Duisburg-Essen (UDE)
- Topics include interactions of nanoscale particles with biomolecules and membranes, mechanisms of cellular uptake and intercellular trafficking, biological impacts of nanoscale particles, synthesis and characterisation of nano particles, in-vivo and in-vitro imaging and diagnostic techniques, biodegradation of nanoscale particles, life cycle analysis and risk assessment

[http://www.spp1313.de/website/program/general/programm\\_82/en/en\\_programm\\_univer\\_1.php](http://www.spp1313.de/website/program/general/programm_82/en/en_programm_univer_1.php)

### ***NANOCON 2011***

September 21-23, 2011, Brno, Czech Republic

- Two sessions on biotechnology, nanomaterials in medicine, and health, safety and environmental challenges

<http://www.nanocon.cz/>

### ***Nanoscale Bioceramics in Healthcare and High Performance Ceramics***

October 12-13, 2011, Stoke-on-Trent, Staffordshire, UK

- Hosted by Institute of Nanotechnology and CERAM
- Focus on application of bioactive glass and ceramics to orthopaedics, regenerative medicine, dentistry, biosensing, controlled drug release, high performance coatings, and functionalized biomaterials.

<http://www.nano.org.uk/events/ion-events>

### ***NanoDDS 2011***

Salt Lake City, UT

- Advanced nanomaterials
- Theranostics
- Drug delivery
- Translational nanomedicine

<http://www.nanoinstitute.utah.edu/portal/site/nanoinstitute/menuitem.bd784eb820e465c65b2c5b69c1e916b9/?vgnnextoid=f5295a86d2a96210VgnVCM1000001c9e619bRCRD>

### ***NanoMedicine – 2011***

November 3 – 5, 2011, Shenzhen, China

- Breaking Research of Nanomedicines
- Versatile Nanotech and Nanomaterials in Biomedicine
- Nanodevices and Diagnostic
- Nanomedicine Targeting Major Diseases
- Regenerative Nanomedicine
- Culturing Public Environment for Healthy Growth

<http://www.bitconferences.com/NanoMedicine2011/>

### ***IEEE International Conference on Nano/Molecular medicine and Engineering***

November 9-12, 2011, Jeju, South Korea

- Nano and molecular technologies in medical diagnosis and therapy
- Nanotechnology in drug delivery

- Biomedical imaging
- Nano and molecular technologies in medical diagnosis and therapy
- Nano-technology in drug delivery
- Biochips and Bio-MEMS
- Biomechatronics
- Biological interface
- Cell at the nanoscale
- Frontiers in nanobiotechnology

***BioNanoTox and Applications International Research Conference***

November 10-14, 2011, Mobile, AL

- Multidisciplinary focus on biology, nanotechnology, and toxicology
- Joint research between nanomaterials and biological systems

<http://sites.google.com/site/bntconference/>

***International Conference on Biomedical Engineering***

December 10-12, 2011, Manipal Karnataka, India

- Medical applications of nanotechnology one of focus areas

<http://uic.manipal.edu/icbme/#contact>

***Nano Health***

January 15-16, 2012, Egypt, Cairo

- To address the future of nanotechnology, as well as potential risks and regulatory issues
- New frontiers in drug delivery and therapeutics
- New frontiers in imaging and diagnosis
- Nanotechnology and the developing world
- Roadmapping new technologies
- Novel medical materials and products

<http://www.clocate.com/conference/Nano-Health-2012/13170>

***IEEE International Conference on Nano/Micro Engineered and Molecular Systems***

March 5-8, 2012, Kyoto, Japan

- Nanophotonics
- Nanomaterials
- Carbon nanotube based devices and systems
- Nanoscale robotics, assembly, and automation
- Molecular sensors, actuators, and systems
- Integration of MEMS/NEMS with molecular sensors/actuators
- Microfluidics and nanofluidics
- Micro and nano heat transfer
- Nanobiology, nano-bio-informatics, nanomedicine
- Micro and nano fabrication
- Micro/nano sensors and actuators
- Micro/nanoelectromechanical systems

[http://www.ieee-nems.org/2012/general\\_info/introduction/](http://www.ieee-nems.org/2012/general_info/introduction/)

## REFERENCE SECTION

### Nano Organizations

- National Center for Toxicological Research (NCTR): <http://www.fda.gov/AboutFDA/CentersOffices/NCTR/default.htm>
- National Nanotechnology Initiative (NNI): <http://www.nano.gov/>
- Nano Science and Technology Consortium (NSTC): <http://www.nstc.in/>
- Nano Science and Technology Institute (NSTI): <http://www.nsti.org/>
- The Nanotechnology Institute (NTI): <http://nanotechinstitute.org/>

### Nano Journals

- American Chemical Society -- Nano Letters: <http://pubs.acs.org/journal/nalefd>
- Institute of Physics – Nanotechnology: <http://iopscience.iop.org/0957-4484/>
- Journal of Nanoscience and Nanotechnology: <http://www.aspbs.com/jnn/>
- NanoTrends - A Journal of Nanotechnology and its Applications: <http://www.nstc.in/journal/default.aspx>
- BCC Research -- Nanotechnology Reports: <http://www.bccresearch.com/index/category/code/nanotechnology>

## CONTACT

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