

6th International Key Symposium

NANOMEDICINE

9-11 September, 2009

Grand Hôtel Saltsjöbaden, Stockholm, Sweden

Sponsored by

The Journal of Internal Medicine

and organized in collaboration with

The Royal Swedish Academy of Sciences

Organizing Committee:

Bengt Fadeel, Karolinska Institutet, Stockholm, Sweden
Göran Holm, The Journal of Internal Medicine, Stockholm, Sweden
Bengt Kasemo, Chalmers University of Technology, Göteborg, Sweden
Sverker Ljunghall, The Journal of Internal Medicine, Stockholm, Sweden
Martin Malmsten, Uppsala University, Uppsala, Sweden
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Nanomedicine takes advantage of progress in nanotechnologies to bring about radically new opportunities for diagnostics and therapy in medicine. The application of nanotechnologies in medicine has the potential to enable improved detection and prevention of human disease, as well as monitoring of disease processes and also enabling new treatment modalities, by exploiting novel physico-chemical and biological properties of materials produced at the nanometer scale. Safe and sustainable development of nanotechnologies for implementation in the clinic will also require close attention to safety issues (nanotoxicology).

The present symposium on nanomedicine will focus on four central topics: (I) Drug Delivery, (II) Regenerative Medicine, (III) Imaging & Diagnostics, and (IV) Toxicology & Risk Assessment. Leading international experts will explore promising fundamental and proof-of-principle studies, and they will highlight the transition and implementation of groundbreaking discoveries into the clinical setting. Posters related to these topics will also be on display throughout the meeting. In addition, a collection of peer-reviewed review articles based on presentations at the meeting will be published in The Journal of Internal Medicine.

Scientific Program

Day 1 (September 9)

12.00-16.00 Registration

OPENING SESSION

16.15-16.30 Opening of the Meeting
Dr. Bengt Fadeel, Organizing Committee
Dr. Ulf de Faire, Editor, The Journal of Internal Medicine

16.30-17.30 Keynote Lecture
Teruo Okano, Tokyo Woman's Medical University, Tokyo, Japan

17.30-20.30 Opening Reception

Day 2 (September 10)

SCIENTIFIC SESSION 1: DRUG DELIVERY

Co-Chairpersons: *Dr. Marisa Papaluca-Amati*, European Medicines Agency, London, United Kingdom; *Dr. Martin Malmsten*, Uppsala University, Uppsala, Sweden.

08.30-09.00 *Dr. Robert Langer*, Massachusetts Institute of Technology, Cambridge, MA

09.00-09.30 *Dr. Naomi Halas*, Rice University, Houston, TX

09.30-10.00 *Dr. Ruth Duncan*, Cardiff University, Cardiff, United Kingdom

10.00-10.30 COFFEE BREAK WITH POSTER SESSION

10.30-11.00 *Dr. Gabriel Lopez-Berestein*, University of Texas MD Anderson Cancer Center, Houston, TX

11.00-11.30 *Dr. Alexander Kabanov*, University of Nebraska Medical Center, Omaha, NE

11.30-12.00 *Dr. Maria Vallet-Regí*, Universidad Complutense de Madrid, Madrid, Spain

12.00-12.30 *Dr. Vladimir Torchilin*, Northeastern University, Boston, MA

12.30-14.00 LUNCH

SCIENTIFIC SESSION 2: REGENERATIVE MEDICINE

Co-Chairpersons: *Dr. Harald Krug*, EMPA, Materials-Biology Interactions Laboratory, St. Gallen, Switzerland; *Dr. Bengt Kasemo*, Chalmers University of Technology, Göteborg, Sweden.

- 14.00-14.30 *Dr. Cato Laurencin*, University of Connecticut, Hartford, CT
- 14.30-15.00 *Dr. Samuel Stupp*, Northwestern University, Evanston, IL
- 15.00-15.30 *Dr. Joachim Spatz*, Max-Planck-Institute for Metal Research, Stuttgart, Germany
- 15.30-16.00 *Dr. Jöns Hilborn*, Uppsala University, Uppsala, Sweden
- 18.00 Pre-Dinner Drinks at Grand Hôtel Saltsjöbaden
- 18.30-22.00 Boattrip through Stockholm Archipelago & Banquet at Vasa Museum

Day 3 (September 11)

SCIENTIFIC SESSION 3: IMAGING AND DIAGNOSTICS

Co-Chairpersons: *Dr. Hans Hertz*, Royal Institute of Technology, Stockholm, Sweden; *Carl-Johan Sundberg*, Karolinska Institutet, Stockholm, Sweden.

- 09.00-09.30 *Dr. Ulf Landegren*, Uppsala University, Uppsala, Sweden
- 09.30-10.00 *Dr. Sunney Xie*, Harvard University, Cambridge, MA
- 10.00-10.30 *Dr. Chad Mirkin*, Northwestern University, Evanston, IL
- 10.30-11.00 COFFEE BREAK WITH POSTER SESSION
- 11.00-11.30 *Dr. Charles Lieber*, Harvard University, Cambridge, MA
- 11.30-12.00 *Dr. Hjalmar Brismar*, Royal Institute of Technology, Stockholm, Sweden
- 12.00-12.30 *Dr. Martin Philbert*, University of Michigan, Ann Arbor, MI
- 12.30-14.00 LUNCH

SCIENTIFIC SESSION 4: TOXICOLOGY AND RISK ASSESSMENT

Co-Chairpersons: *Dr. Nancy Monteiro-Riviere*, North Carolina State University, Raleigh, NC; *Dr. Lang Tran*, Institute of Occupational Medicine, Edinburgh, UK

- 14.00-14.30 *Dr. Günter Oberdörster*, University of Rochester, Rochester, NY
- 14.30-15.00 *Dr. Wolfgang Kreyling*, German Research Center for Environmental Health, München, Germany
- 15.00-15.30 *Dr. Anna Shvedova*, National Institute of Occupational Safety and Health, Morgantown, WV
- 15.30-16.00 COFFEE BREAK WITH POSTER SESSION
- 16.00-16.30 *Dr. Valerian Kagan*, University of Pittsburgh, Pittsburgh, PA
- 16.30-17.00 *Dr. Kenneth Dawson*, University College Dublin, Dublin, Ireland
- 17.00-17.15 Closing Remarks
Dr. Bengt Kasemo, Organizing Committee
Dr. Carl-Johan Sundberg, Organizing Committee



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