

Pharmaceutical  
And Biotechnology  
Middle East

A Congress  
You Can't Afford To  
Miss!

# Clinical Research Congress

*Stem Cells - Nanotechnology*

27 – 29 April 2008 • Dubai International Convention & Exhibition Centre, Dubai, UAE



## Benefits of Attending this Conference:

- Discover the latest developments in Stem Cell Research and gain new insights into your research
- See how nanotechnology is being used to diagnose diseases so major diseases can be treated soon and/or more effectively
- Discuss with the leaders in research the techniques that will help you make a breakthrough in your research
- Learn about the possibilities of using nanotechnology to reach previously inaccessible areas of human physiology
- Find out innovative ways stem cells are being used to treat today's most prevalent diseases to further advance your treatment research

## Target Audience

This conference will be of interest to all those working in or with an interest in the areas of stem cell and nanotechnology research and the Pharmaceutical and Biotechnology sectors, but particularly:

- Medical Directors
- Principal Investigator
- Chief Scientific Officers
- Research and Development Directors
- Heads of Drug Development
- Material Science Engineers
- Nanotechnology Analysts
- Pre-formulation Scientists
- Process Researchers

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# Clinical Research Congress

Dear Colleague,

It gives me great pleasure to welcome you to the inaugural **Clinical Research Conference** at the exciting new international event Pharmaceutical and Biotechnology Middle East. Dubai is set to become the international hub for the world's leaders in Biotechnology and Pharmaceutical industries. This conference offers a unique forum for you, the leaders in research, to come together to learn about, share and discuss the research that will become the therapies of the future.

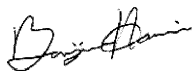
Both Stem Cells and Nanotechnology have been pegged as areas of Biotechnology that have vast potential for possible treatments and perhaps even cures for today's most prevalent diseases. Delegates at the Clinical Research Conference will explore various vantage points of how to use these exciting technologies. From furthering the understanding of how today's discoveries are shaping tomorrow's cutting edge therapies, this in depth congress has something for anyone involved with or interested in research.

The first part of the congress will cover Stem Cells; differentiation, technical approaches and use in the treatment of diseases. Part two focuses on Nanotechnology. In addition to uses in diagnosis and therapeutics, the congress will explore delivery systems, nanoparticle platforms, applications and targeting. You will have the chance to hear from some of the groundbreaking exponents in the field.

PABME is being brought to you by the team behind Arab Health. Register today by completing the registration form on the back page and fax it to +971 4 3364021, contact our registration hotline + 971 4 3367334 or visit [www.pabme.com](http://www.pabme.com)

We look forward to welcoming you to this industry first in Dubai.

Kind regards,



Benjamin Harris  
Conference Producer

*PS. Don't miss out on this exciting opportunity that you can't afford to miss!*

## Speaker Faculty:

**Ayman Diab**, Dean of Faculty Biotechnology, MSA University Cairo

**Firdos Alam Khan**, Chairperson Department of Biotechnology, Manipal Academy of Higher Education - Dubai

**Hosny Salama**, Professor, Cairo University

**Asit B. Panja**, Chief Scientific Officer, Alfagene Biosciences

**Dragan Grabulovski**, Chief Scientific Officer, Covagen

**Wendy Wong**, Oncology Pharmacist, University of California Irvine

## Day 1: Sunday, 27 April 2008

### Stem Cells

09.30 Registration and Coffee

09.30 **Opening Remarks**

09.40 **Therapeutic Advances Using Adult Somatic Stem Cells**

10.20 **Therapeutic Potential of Reprogrammed Somatic Stem Cells**

11.00 Break

### Session 1: The Science of Stem Cells

11.20 **Differentiation of Stem Cells**

- Identification of Novel Stem Cell Sets
- Stem Cell Fate Choices
- Stem Cell Niches
- MicroRNAs and Cell Fate Determination

12.40 Lunch Break

14.00 **Technical Approaches to Stem Cells**

- Tissue Formation Supported by Biomaterials
- Animal Models of Regeneration
- Islet Cell Generation

15.20 Break

15.40 **Practical Issues with Stem Cells**

- Clinical Translation
- Novel Emerging Technologies
- Legal and Patent Protection

17.00 Close

## Day 2: Monday, 28 April 2008

09.30 **Opening Remarks**

### Session 2: Stem Cells and Disease: Case Studies of Leading Research

09.40 **In-Depth Presentations Discussing Current Research of Various Topics in Disease Related Fields**

- Cardiovascular Stem Cells
- Metabolic Diseases
- Neural Stem Cells and Axonal Regeneration
- Therapeutic uses of Stem Cells in Degenerative Diseases
- Cancer Stem Cells
- Mesenchymal and Hematopoietic Stem Cells
- Gastrointestinal Diseases
- Hepatic Diseases

Lunch Break

### Nanotechnology

14.00 **Opening Remarks: The Expansion of Nanotechnology on the Global Stage**

- 14.20 **Innovative Advances in Nanotechnology**
- Novel Drug Delivery, Therapies and Biomaterials

### Session 1: Delivery Systems: (Modes of Entry and Controlled Release Systems)

- 15.00 **In-Depth Presentations Discussing Current Research of Various Topics Relating to Methods of Delivery**
- Vesicles
  - Macromolecular Conjugates
  - Quantum Dots
  - Fullerenes
  - Lipids
  - Polymers
  - Dendrimers
  - DNA-Gold-Nanoparticle Conjugates
  - Nucleic Acid Ligands (aptamers)
  - Protein/Peptide
  - Microbubbles

17.00 Close

### Day 3: Tuesday, 29 April 2008

- 09.30 **Opening Remarks**

### Session 2: Nanoparticle Platforms

- 09.40 **In-Depth Presentations Discussing Current Research of Various Topics that Pertain to Nanoparticle Platforms**
- Polymeric Nanoparticles
  - Lipid Nanoparticles
  - Metal Nanoparticles
  - Magnetic Nanoparticles
  - Self-assembling Nanosystems

11.00 Break

### Session 3: Science and Technologies for Disease Diagnosis and Therapies Using Nanotechnology

- 11.20 **In-Depth Presentations Discussing Current Research of Various Topics in Disease Related Fields**
- Cancer
  - Neurological Disorders
  - Cardiovascular Disease
  - Metabolic Disease
  - Skeleto-Muscular
  - Inherited Diseases
  - Degenerative Diseases
  - Hematological Diseases

12.40 Lunch Break

### Session 4: Targeting

- 14.00 **In-Depth Presentations Discussing Current Research of Various Topics Regarding Targeting**
- Targeting at Molecular, Cellular and Higher Levels
  - Antibody Targeting

- Therapeutic Targeted and Intra-cellular Drug and Gene Delivery Using Nanocarriers
- Targeted Functionalization of Nanoparticles

15.20 Break

### Session 5: Nanotech Applications

- 15.40 **In-Depth Presentations Discussing Current Research of Various Topics in the Application of Nanotechnology**
- Viral-Based Systems
  - Bioanalytical Nanotechnology for Detection of Biomarkers
  - Combination Therapies (Drug and Energy Delivery) using Nanoparticles
  - Drug Delivery to Nervous System
  - Molecular Machines, Receptors, Pores and Channels
  - Bio Sensors – General

17.00 Close

## PABME Biotech Showcase

The Biotech Showcase will be a forum for the latest R&D to be discussed and the potential explored. Bringing together the scientists leading the research and the investors looking for the right place to make their investment. The Showcase will share ideas as well as find research and business partners.

Visit [www.pabme.com](http://www.pabme.com) for more information or call +971 4 3365161

## Conference Sponsorship Opportunities

**Clinical Research Congress** will be an ideal meeting platform for your company to demonstrate its products and services to a targeted audience and extend your marketing reach within this industry. Apart from the exposure gained during the Conference, you will have access to the PABME's Exhibition. To find out how you can increase your corporate identity, build brand awareness and showcase your leadership profile at this meeting please contact us for a tailored sponsorship package on: Tel : +971 4 3365161, Fax: +971 4 3364021 or e-mail [pabme@iirme.com](mailto:pabme@iirme.com)

## Other Conferences taking place during PABME:

### Middle East Drug Discovery

27 – 28 April 2008

### Clinical Trial Congress Dubai

27 – 28 April 2008

### Pharmaceutical Registration Congress

27 – 29 April 2008

### Pharma and Biotech Opportunities in Emerging Markets

27 – 29 April 2008

### Facilities Design, Upgrade and Expansion

28 – 29 April 2008

### Antibody Production – Upstream and Downstream Processing

28 – 29 April 2008

### Comparability, Immunogenicity and Biosimilars

28 – 29 April 2008

