

# International Conference on Emerging Cell Therapies

October 1-3, 2012 DoubleTree by Hilton Chicago-North Shore, USA

**Theme: "Evolving Technology in Cell Therapy and its Future Perspectives"**

Cell Therapy-2012 aims to access important ideas and networking with eminent scientists and researchers in the field of Cell biology. In addition to large-scale gatherings of delegates, the program also includes meetings focusing on specific research area with provoking thoughts which empowers new knowledge or correcting and integrating previous knowledge.

## Scientific Tracks

### Track 1: Cell Therapy- Potential Applications

- Track 1-1 Molecular therapy
- Track 1-2 Ocular therapy
- Track 1-3 Neuro therapy for neurological diseases
- Track 1-4 Cardiac cell therapy
- Track 1-5 Immunotherapy and its applications

### Track 2: Stem Cell Therapies

- Track 2-1 Molecular basis of pluripotency
- Track 2-2 Bone marrow stem cells as therapy
- Track 2-3 Current views of the embryonic & neural stem cells
- Track 2-4 Stem cell therapy for genetic disorders
- Track 2-5 Targeting stem cells for therapeutic benefits
- Track 2-6 Transplantation technologies in stem cell therapy

### Track 3: Cellular Therapies

- Track 3-1 Cell replacement verses molecular repair
- Track 3-2 Potential uses of defined cell populations
- Track 3-3 Reprogramming cell fate
- Track 3-4 Role of molecular markers in therapies
- Track 3-5 Target tissues and routes of delivery
- Track 3-6 Causes of regenerative failure

### Track 4: Cancer Therapies

- Track 4-1 Stem cells & cancer treatments
- Track 4-2 Characteristics of cancer cells
- Track 4-3 Cell cycle and oncology
- Track 4-4 Modern approaches in molecular cancer therapeutics
- Track 4-5 Genomics & cancer drug resistance
- Track 4-6 Targeted cancer therapy
- Track 4-7 Genetically engineered cancer vaccines
- Track 4-8 Challenges & risks of cancer gene therapy

### Track 5: Clinical Trials & Research in Cell Therapies

- Track 5-1 Principles of gene therapy & clinical gene therapy
- Track 5-2 Animal & human trials of engineered tissues
- Track 5-3 Emerging clinical aspects of stem cell therapy
- Track 5-4 Pharmacogenomics in cell therapy

Track 5-5 Clinical trial design and analysis

Track 5-6 Alternative lab models for cell therapy applications

### Track 6: Nanoremedies

- Track 6-1 Nano methods to target cancer cells
- Track 6-2 Nano-microfluidics in cell therapy
- Track 6-3 Nano materials and nano engineering
- Track 6-4 Pros and cons of molecular manufacturing
- Track 6-5 Nanovaccines

### Track 7: Bioengineering Cell Therapy

- Track 7-1 Biomedical engineering
- Track 7-2 Developing new probes for tissue targeting
- Track 7-3 Therapeutic bioengineering
- Track 7-4 Mechanobiology
- Track 7-5 Current understanding & challenges in bioprocessing
- Track 7-6 Bioengineering for medical diagnostics and imaging

### Track 8: Regulatory & Ethical Issues of Cell Therapy

- Track 8-1 Commercialisation strategy
- Track 8-2 Evolving regulatory requirements
- Track 8-3 Risks and cost involved in stem cell maintenance
- Track 8-4 Ethics involved in human stem cells
- Track 8-5 Logistics in preparing lab models for cell therapy applications
- Track 8-6 Manufacturing of cell therapy products and marketing guidelines
- Track 8-7 Databases, industry news, published reports
- Track 8-8 FDA & EMA guidelines

### Track 9: Current Research & Future Perspectives on Cell Therapy

- Track 9-1 Xenotransplantation
- Track 9-2 Innovative therapeutic technologies.
- Track 9-3 Applications of cell therapy — from bench to bedside
- Track 9-4 Cell therapy in future medicine
- Track 9-5 Application of thermocycles in cell therapy

OMICS Group is organizing Cell Therapy-2012 with the overwhelming support from more than 150 Editorial Board Members of related journals, that includes Journal of Cell Science & Therapy and Journal of Cell and Developmental Biology.

## Organizing Committee Members

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## Speakers Including

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Seoul National University, South Korea

### Join your Peers @ Cell Therapy-2012

- Are you interested in organizing a track?
- Organizing a small symposium at this venue?
- Organizing a small workshop at this conference?
- Deliver a speech?
- Present a poster/oral presentation?
- Sponsor the event?
- Exhibit at the event?
- Participate in Scientific Partnering?

Please contact: [celltherapy2012@omicsonline.org](mailto:celltherapy2012@omicsonline.org)  
<http://omicsonline.org/celltherapy2012/>

### Editors

Journal of Cell Science & Therapy  
Journal of Cell and Developmental Biology

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