Scientific Program

International Conference and Expo on

Musculoskeletal Disease and Regeneration

May 05-06, 2016  Chicago, USA
## Scientific Program

### Day 1  May 05, 2016

### 09:00-09:45 Registrations

### Zurich

**conference series.com** 09:45-10:15  **Opening Ceremony**

### Keynote Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>10:15-10:55</td>
<td>A low cost, high content murine model for evaluating cell-based strategies of bone regeneration: Demonstration that donor progenitor cells produce a functional repair of a long bone defect</td>
<td>David W Rowe, University of Connecticut Health Center, USA</td>
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<tr>
<td>11:10-11:50</td>
<td>Cutting edge concepts in the use of stem cell and PRP injections in an office setting</td>
<td>Joseph Purita, The Institute of Regenerative and Molecular Orthopedics, USA</td>
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### Lunch Break 12:50-13:35 @ Athens

### Session on: Musculoskeletal Stem Cell Therapy  
### Session on: Musculoskeletal Regeneration and Repair

**Session Chair: David W Rowe, University of Connecticut Health Center, USA**

#### Session Introduction

<table>
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<tr>
<td>11:50-12:20</td>
<td>Scaffold-free three-dimensional graft from autologous adipose-derived stem cells for large bone defect reconstruction</td>
<td>Denis Dufrane, Novadip Biosciences, Belgium</td>
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<tr>
<td>12:20-12:50</td>
<td>Stem cell therapy for arthritis and joint injuries</td>
<td>Brian M Mehling, Blue Horizon International, USA</td>
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### Lunch Break 12:50-13:35 @ Athens

### Session Discussion

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<thead>
<tr>
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<tr>
<td>13:35-14:05</td>
<td>The feasibility of a novel hydrogel (HYPAN) intra-discl implant for nucleus augmentation</td>
<td>Anthony T Yeung, University of New Mexico, USA</td>
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<td>14:05-14:35</td>
<td>Epigenetic factors involved in musculo-skeletal interaction: How skeletal muscle cells and osteoblasts derived from stem cells communicate with special reference to histone deacetylases (HDACS), transcription factors (TFs), microRNAs and vitamin K2</td>
<td>Jan O Gordeladze, University of Oslo, Norway</td>
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<tr>
<td>14:35-15:05</td>
<td>Subcutaneous immunoglobulin use in inclusion-body myositis: A review of 6 cases</td>
<td>Patrick Cherin, University Hospital of Pitié-Salpêtrière, France</td>
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### Workshop

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<td>15:05-15:45</td>
<td>Human gingival mucosa as a new source for myoblast derivation</td>
<td>Vadim L Zorin, PJSC Human Stem Cells Institute, Russia</td>
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### Networking & Refreshments Break 15:45-16:00 @ Foyer
Day 2  May 06, 2016

Zurich

Keynote Forum

09:00-09:40  Title: Tarsal Tunnel Syndrome, a new way of diagnosing an old problem
Conor P O Brien, Royal College of Surgeons, Ireland

09:40-10:20  Title: The role of myospecific antibodies in the clinical assessment of polymyositis and dermatomyositis
James J Curran, University of Chicago, USA

Networking & Refreshments Break 10:20-10:35 @ Foyer

Session on: Musculoskeletal Tissue Engineering

Session Chair: Denis Dufrane, Novadip Biosciences, Belgium

10:35-11.05  Title: Comparison of myoblast and satellite cell behavior on scaffolds: analysis of proliferation and differentiation
Jeanne Wilson-Rawls, Arizona State University, USA

11:05-11:35  Title: Changes in muscle oxygen saturation have low sensitivity in diagnosing chronic anterior compartment syndrome of the leg
Kajsa Rennerfelt, University of Gothenburg, Sweden

Young Researcher Forum

11:35-11:55  Title: Acceleration of de novo early bone defect healing following application of s-nitroso-glutathione in vivo
Xin Wang, University of Queensland, Australia

11:55-12:15  Title: Short 10-mer Therapeutic Peptides for Osteoarthritic Cartilage Regeneration
Angelia Szwed, Purdue University School of Veterinary Medicine, USA

12:15-12:35  Title: Regeneration of decellularised ligamentous scaffolds using human bone marrow MSCs under different regime of uniaxial tensile stimulations
Normalina Sandora, University of Leeds, UK

Lunch Break 12:50-13:35 @ Athens

Award Ceremony