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3rd International Conference on Regenerative Orthopaedics and Tissue Engineering

November 4th 2015, Zagreb, Croatia

NEW INSIGHTS IN CARTILAGE REPAIR



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Organized by:

CROATIAN ACADEMY OF SCIENCES AND ARTS
The Department of Medical Sciences
and
UNIVERSITY OF ZAGREB
FP7 Project BIO-COMET

In cooperation with:

CROATIAN ORTHOPAEDIC SOCIETY
Section for Translational Medicine

CONFERENCE PROGRAM:

November 4th 2015.

Welcome Address

09:00 – 09:15 **Zvonko Kusić**, President of the Croatian Academy of Sciences and Arts
Damir Boras, Dean of the University of Zagreb
Robert Kolundžić, President of the Croatian Orthopaedic Society
Ivan Martin, President of the 3rd ICRO
Marko Pečina, President of the 3rd ICRO

Emerging concepts in cartilage research

Chairpersons: *Ivan Martin, Damir Hudetz*

09:15 – 09:35 **“Animal models in cartilage research”**
Dražen Matičić, Department of Surgery, Ophthalmology and Orthopaedics, Veterinary Faculty, University of Zagreb

09:35 – 09:55 **“Induced pluripotent stem cells in cartilage repair”**
Wa’el Kafienah, Department of Molecular Biology, University of Bristol, UK

09:55 – 10:15 **“Improved MR scoring system for outcome analysis of cartilage repair procedures”**
Giuseppe Filardo, Department of Orthopaedic Surgery, Istituto Ortopedico Rizzoli, Bologna, Italy

10:15 – 10:35 **“Imaging technologies in tissue engineering”**
Gregor Liebsch, Presens GmbH, Regensburg, Germany

10:35 – 10:40 **Discussion**

10:40 – 11:00 **Coffee Break**

Nose2Knee - novel technology for articular cartilage repair

Chairpersons: *Wa’el Kafienah, Mislav Jelić*

11:00 – 11:20 **“Nose2Knee – scientific rationale for use of nasal chondrocytes in articular cartilage repair”**
Ivan Martin, Institute for Surgical Research and Hospital Management, University Hospital Basel, Switzerland

11:20 – 11:40 **“Nanocomposite scaffolds for Nose2Knee application”**
Elisa Figallo, Finceramica, Faenza, Italy

11:40 – 12:00 **“Nose2Knee – preclinical animal model”**
Andreja Vukasović, Department of Histology and Embriology, Medical School University of Zagreb, Croatia

12:00 – 12:20 **“Nose2Knee – clinical experience in the treatment of cartilage defects with expanded nasal chondrocytes”**
Marcus Mumme, University Hospital Basel, Switzerland

12:20 – 12:40 **Discussion**

12:40 – 14:00 **Lunch**

Spotlight lecture

14:00 – 14:45 **“3D cartilage printing”**
Marcy Zenobi-Wang, Swiss Federal Institute of Technology, Zurich, Switzerland

14:45 – 15:00 **Discussion**

Bioreactor technology in cartilage tissue engineering

Chairpersons: *Marcy Zenobi-Wang, Inga Marijanović*

15:00 – 15:20 **“3D Cell and Tissue Culturing Under Perfusion”**
David Wendt, Cellec Biotek AG, Basel, Switzerland

15:20 – 15:40 **“Bioreactor-based Cartilage Engineering”**
David Wendt, Institute for Surgical Research and Hospital Management, University Hospital Basel, Switzerland

15:40 – 16:00 **“Advanced Bioreactors for Application in Clinical Medicine”**
Tim Smith, Octane Biotech, Kingston, Canada

16:00 – 16:20 **“GMP Facilities for Bioreactor-based Tissue Engineering”**
Michele Desogus, Holostem Therapie Avanzate, Modena, Italy

16:40 – 17:00 **Coffee Break**

17:00 – 17:30 **Round table – future of cartilage tissue engineering**

17:30 – 17:40 **Closing ceremony**