

**Tissue Science 2017**

San Francisco, USA

# Tentative Program

## 6<sup>th</sup> International Conference on **Tissue Engineering and Regenerative Medicine**

August 23-24, 2017 San Francisco, USA

## Importance of Tissue Engineering and Regenerative Medicine to the Future of Health Care

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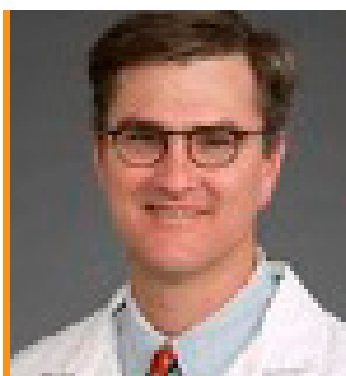
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surgeons, USA

Prolotherapy has been around for almost 80 years, yet is not well known in most musculoskeletal circles. Most orthopedic surgeons and neurosurgeons either have not ever heard of prolotherapy or think it doesn't work based on never having studied it in residency training programs, their personal bias or their general lack of knowledge about it. The author will explain his discovery of prolotherapy after some 30 years of suffering from pain and his experience and will introduce this fine medical art to the participants. Prolotherapy was the first procedure invented in Regenerative Medicine, followed by PRP-Platelet Rich Plasma injections and then Stem Cell Injections from the bone marrow and/or Adipose Tissue

Dr. Schuetze is a biologist and expert in non-contact cell handling and label-free cell analysis using innovative photonic technologies. She did her PhD work at the Institute for Applied Physical Chemistry in Heidelberg and her postdoc research at the University of California in Berkeley where she assembled her first Optical Trap. In 1993 she and her husband founded the PALM company, which was successfully sold to Zeiss. In 2008, they both founded their second company, the CellTool GmbH, where they develop Raman microscope systems for biomedical applications, providing physicians and biologists with a label-free and non-invasive tool for cell analysis.



**Dr. Karin Schütze**  
Director, CellTool GmbH,  
GERMANY



**Brian M. Mehling**  
USA

Brian Mehling, M.D., M.S. is a practicing American orthopedic trauma surgeon, researcher, and philanthropist. Dr. Mehling started his path in medicine through undergraduate study at Harvard University, obtaining Bachelor of Arts and Master of Science degrees in Biochemistry from Ohio State University. Completing his degree of medicine at Wright State University School of Medicine, Dr. Mehling received post graduate education through residencies and fellowships at St. Joseph's Hospital in Paterson, NJ and the Graduate Hospital in Philadelphia, PA, while pursuing a Ph.D. in Chemistry. Dr. Mehling operates his own practice, Mehling Orthopedics, in both West Islip, NY and Hackensack, NJ.

Kay Ohlendieck has an undergraduate degree in Biology from the University of Konstanz, Germany (1985), a PhD in Biochemistry from University College Cork, Ireland (1989) and a D.Sc. in Muscle Biology from University College Dublin, Ireland (2011). He has worked as a postdoctoral associate at the University of Iowa, Iowa City and at the State University of New York, Stony Brook, as well as a Lecturer in the Department of Pharmacology, University College Dublin (1995-2001). Since 2002, he is Chair of Biology at the National University of Ireland, Maynooth, and his research focuses on skeletal muscle proteomics



**Kay Ohlendieck**  
Germany



**Robin C. Muise-Helmericks**  
USA

Robin Muise-Helmericks is currently an Associate Professor in the Department of Regenerative Medicine and Cell Biology, Member of the Hollings Cancer Center and Adjunct Associate Professor in the Departments of Oral Health at the Medical University of South Carolina and Bioengineering at Clemson University. The research her laboratory focuses on the regulation of VEGF-induced Akt signaling during angiogenesis. The laboratory has developed several in vivo models focusing on the Akt family of kinases and their role in angiogenesis as they pertain to metabolism, development and angiogenic responses in cutaneous wound healing. The research program has been supported by grants from the NIH and by Marine Polymer Technologies, Inc.

## Featured Speakers

Tentative Scientific Program

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Keynote Forum

Featured Keynote Presentations

Title: The Evolution and Current Status of Sperm Cryopreservation

*Panayiotis Zavos*, The Andrology Institute of America, USA

Title: Improved methods and procedures for pluripotent stem cell preservation, storage stability and validation

*Heiko Zimmerman*, Fraunhofer Institute for Biomedical Engineering, Germany

Title: Cryopreservation by Vitrification: Basic Thermodynamic Principles, Methods and Devices

*Igor Katkov*, Belgorod National Research University, Russia

Title: Transplantation of hepatocyte like cells derived from human tooth into the animals with liver conditions

*Ken yaegaki*, Nippon Dental University School of Life Dentistry, Japan

Title: Prolotherapy – the first choice in Regenerative Medicine

*Charles F Mahl*, GenLife Institute for Regenerative Medicine and Stem Cells, USA

Title: Cryopreservation of organs and organisms: Signs of a new era

*Aubrey de Grey*, SENS Research Foundation, USA

Title: Bioprinter advances future research in healthcare and beyond

*Mayasari Lim*, SE3D, USA

**\*\*\* Keynote Speaker Slots are available\*\*\***

Featured Speaker Presentations

Title: Human mesenchymal stem cell-derived conditioned medium: perspectives for therapeutic application in I

*Lourdes Cortes-Dericks*, University of Hamburg, Germany

Title: Reproductive tissue banking for young boys of pre-reproductive age

*Yulian Zhao*, Mayo Clinic, USA

Title: Fertility Cryopreservation in Oxford, UK

*Jill Davies*, Oxford University, UK

<b>Title:Peripheral Artery and Blood Biobanking Can Lead to Scientific Collaboration and Discovery</b>
<i>Mohamed Zayed , Washington University School of Medicine, USA</i>
<b>Title:Mesenchymal Stem Cells in Clinical Applications</b>
<i>Brian M. Mehling , Blue Horizon International, USA</i>
<b>Title: Proteomic profiling of tissue degeneration and regeneration in muscular dystrophy</b>
<i>Kay Ohlendieck , Department of Biology, Maynooth University, Ireland</i>
<b>Title: pGlcNAc Nanofibers Derived from a Marine Polymer Stimulate Regenerative Wound Repair via Activation of a TLR4/type I IFN pathway in Combination with an Integrin/Akt1 dependent pathway</b>
<i>Robin C. Muise-Helmericks , Medical University of South Carolina, , USA</i>
<b>Title:CRISPR/Cas9-mediated knock-in of large DNA in human embryonic stem cells and somatic cells</b>
<i>Bo Feng , University of Hong Kong, China</i>
<b>Title: Therapeutic Effects of Bioquantine® in Volunteer Patients Diagnosed With Cerebral Palsy, Spinal Cord Injury, Wet AMD, SCI, Hypothyroidism, Atypical Pyoderma Gangrenosum, and Breast Cancer</b>
<i>Joel I. Osorio, Westhill University School of Medicine, Mexico</i>
<b>Title: Ovarian function recovery after transplantation of ovarian tissue cryopreserved and stored for long-term</b>
<i>Raffaella Fabbri , University of Bologna, Italy</i>
<b>***Speaker Slots are available***</b>
<b>Title: Life in Nano Ice : Application of CryoCrate C80EZ Medium for Cell and Tissue Cryopreservation</b>
<i>Xu Han , CryoCrate LLC and University of Missouri, USA</i>
<b>Title:Cryopreservation of living cells using an electron microscopy fixation methods</b>
<i>Jan Huebinger, Max-Planck Institute of Molecular Physiology, Germany</i>
<b>Title:Clinical Translation of Tissue-engineered medical products (TEMP) - Journey from Bench to Bed-side</b>
<i>Sita Somara ,Wake Forest Institute for Regenerative Medicine, USA</i>
<b>Title:Cell Therapy For Crilger Najjar Type I Syndrome</b>
<i>Elvira Famulari , Molecular Biotechnology Center, Italy</i>
<b>Title: Hydro-Pressure Therapy in Chronic Kidney Diseases</b>
<i>Shrikant L. Kulkarni , Kulkarni Clinic, India</i>
<b>Title: Deletion of osteoblastic Wntless reduces osteogenic differentiation of bone marrow mesenchymal stem cells and delays bone regeneration in a femur defected animal model</b>
<i>Sher Bahadur Poudel , Chonbuk National University, Korea</i>
<b>Title: Modulation of cell proliferation and differentiation by a new thiazolidine compound (gq-11) in human</b>
<i>Jacqueline Cavalcante Silva , USA</i>
<b>Title: Application of ultrasonography in the assessment of overhand movement</b>
<i>Lin-Hwa Wan, National Cheng Kung University, Taiwan</i>

**Title: Developing and setting up a Tissue Donation after Death Service in the UK.**

***Joanne Mullarkey* , University of Bradford, UK**

**Title: The Promise of Organ Banking and Large-Scale Support for Cryopreservation Advances**

***Jedediah Lewis* , Organ Preservation Alliance, USA**

**Title: Clinical Applications of Autologous Bone Marrow Derived Cells**

***Dalip Sethi* , Cesca Therapeutics Inc., USA**

**Title: Challenges of developing a Biobank in Oxford, UK**

***Jill Davies* , Oxford University, UK**

**\*\*\*Speaker Slots are available\*\*\***

**Title: A dry method to preserve tear sample**

***Youhe Gao* , Beijing Normal University, China**

**Title: Tupler Technique® & Regenerative Platelet Rich Plasma Procedure for Treatment of Diastasis Recti**

***Julie Tupler*, United States**

**Title: Regenerative Effect of Autologous Mesenchymal Stem Cell injection on Cartilage Defects**

***Wael Abo Elkheir*, Military Medical Academy, Egypt**

**Title: Hydrogel Micropattern-Incorporated Nanofibers for Biomedical Application**

***Won-Gun Koh* , Yonsei University, Korea**

**Title: Fertility Cryopreservation in Oxford, UK**

***Jill Davies* , Oxford University, UK**

**Title: Role of Bone-Marrow Derived Stem Cells in Liver Regeneration: a Multicentre Clinical Trial**

***Hala Gabr* , Cairo University, Egypt**

**Title: The future of regenerative medicine in Nigeria: Recommendations for the umbilical cord stem cell**

***Ogwunga Julia Nonyerem* , Nigeria**

**Title: Biological Effects of Low, Medium, and High blue-enriched white light in light emitting diode (LED) on *Caenorhabditis elegans***

***Aldana Aldawsari*, USA**

**\*\*\*Speaker Slots are available\*\*\***

**Last Updated On: May 24, 2017**



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**\*\*Note: Tentative program has been designed with the projected speakers names and titles.**

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