

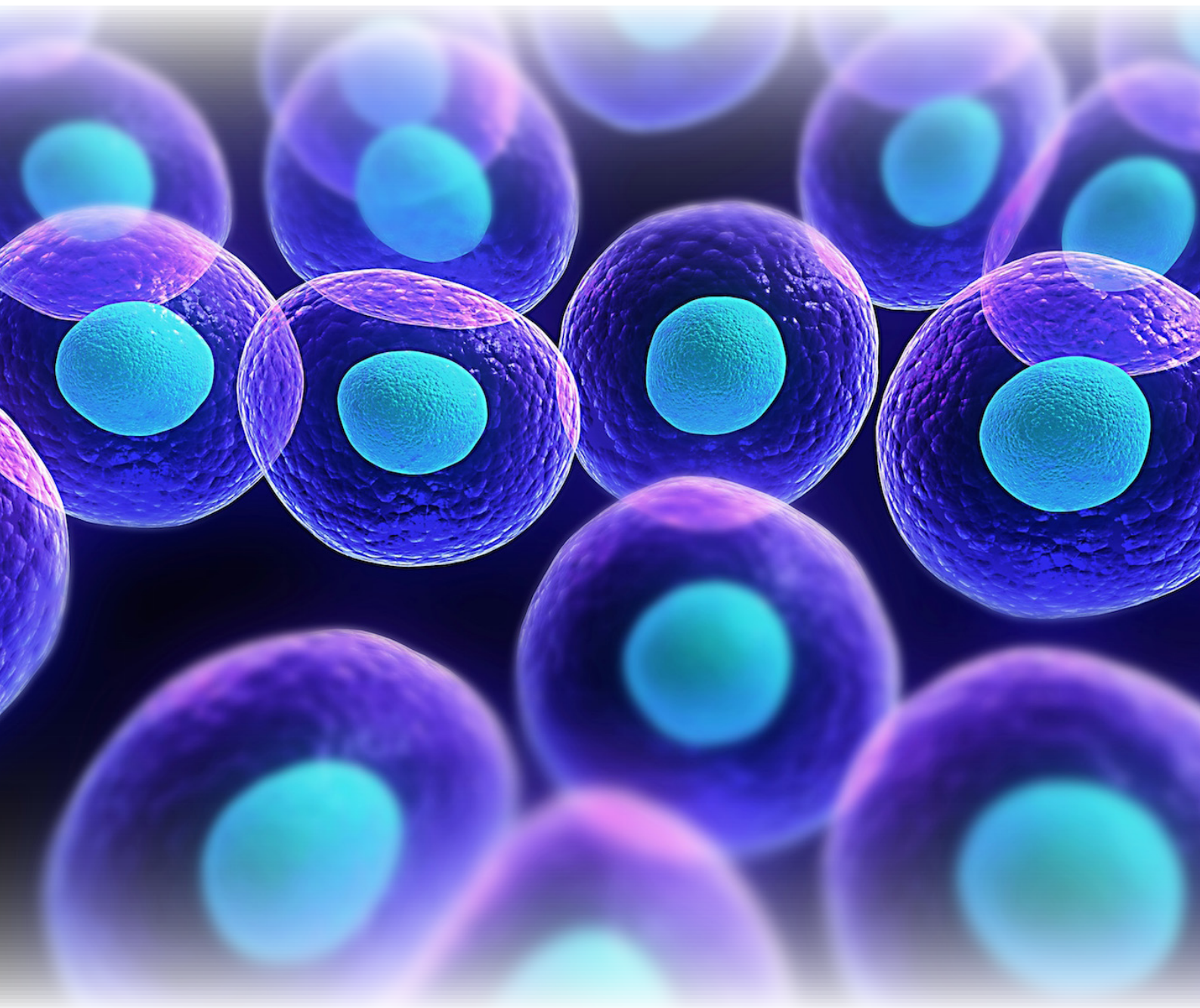
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1160th Conference

Scientific Program

8th International Conference on

Tissue Science and Regenerative Medicine

September 11-12, 2017 Singapore



Hosting Organization: Conference Series

One Commerce Center-1201, Orange St. #600, Wilmington, Zip-19899, Delaware, USA

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08:30-08:45 Registrations

Seletar

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08:45-09:00

Opening Ceremony

Keynote Forum

- 09:00-09:40** **Title: Regenerative treatments for Parkinson's disease: How far can stem cells take us?**
Claire Henchcliffe, Weill Cornell Medical Center, USA
- 09:40-10:20** **Title: Combined therapeutic medical device and stem cells for regenerative nanomedicine**
Nadia Benkirane-Jessel, Inserm - French National Institute of Health and Medical Research, France
- 10:20-11:00** **Title: Minimal invasive TANONGSAK technique for reduction malarplasty**
Tanongsak Panyawirunroj, Asia Cosmetic Hospital, Thailand

Group Photo & Refreshment Break 11:00-11:15 @ Seletar Foyer

Sessions:

Regenerative Medicine | Stem Cell Therapy | Tissue Engineering

Session Introduction

Session Chair: Claire Henchcliffe, Weill Cornell Medical Center, USA

Session Co-chair: Nadia Benkirane-Jessel, Inserm - French National Institute of Health and Medical Research, France

Symposium on

Regenerative Medicine and Its Resources in Promoting Personalized Healthcare and Biopharma (11:15- 13:00)

- 11:15-11:20** **Introductory speech**
- 11:20-11:40** **Title: Russia's landscape in regenerative medicine**
Tatyana Zharikova, I.M. Sechenov First Moscow State Medical University, Russia
- 11:40-12:00** **Title: Laser Structuring Technologies for Tissue Engineering**
Peter Timashev, I.M. Sechenov First Moscow State Medical University, Russia
- 12:00-12:20** **Title: Mass spectrometry in regenerative medicine to promote translational resources to be implemented into personalized healthcare**
Ilgar S. Mamedov, LLC Chromsystems lab, Russia
- 12:20-12:40** **Title: Scaffold-free, label-free and nozzle-free biofabrication technology based on magnetic levitational assembly**
Vladimir Mironov, 3D Bioprinting Solutions, Russia
- 12:40-13:00** **Title: Tissue engineered urethral substitution: Recent trends and our results**
Denis Butnaru, I.M. Sechenov First Moscow State Medical University, Russia

Lunch Break 13:00-14:00 @ Atrium Restaurant

- 14:00-14:20** **Title: Antibodies with functionality as unique biomarkers and targets in drug discovery and regenerative medicine**
Sergey Suchkov, I.M. Sechenov First Moscow State Medical University, Russia
- 14:20-14:40** **Title: Regenerative medicine and its armamentarium in promoting personalized pediatric healthcare**
Vladimir Sukhorukov, I.M. Sechenov First Moscow State Medical University, Russia
- 14:40-15:00** **Concluding Remarks and Discussion**

Special Session

- 15:00-15:45** **Title: Stem cell therapy for the treatment of severe tissue damage after radiation exposure**
Alain Chapel, IRSN- Institute of Radioprotection and Nuclear Safety, France

Networking & Refreshment Break - 15:45-16:00 @ Seletar Foyer

Young Researcher Forum

Sessions:

Tissue Regeneration | Bone Transplantation | Tumor Cell Science

Session Introduction

YRF Session Chair: Sergey Suchkov, I.M. Sechenov First Moscow State Medical University, Russia

- 15:45-16:05** Title: **Integrative approaches through transcriptome profiling to identify subset-specific gene activity in myeloma**
Siti Sarah Daud, National University of Singapore, Singapore
- 16:05-16:25** Title: **Targeting the unique properties of glucose in cancer through calcium-PP2A-RIPK1 pathway**
Lee Ha Yin, Duke–NUS Medical School, Singapore
- 16:25-16:45** Title: **A 3D investigation of islet vasculature in a regenerating rat pancreas after 90% partial pancreatectomy (PPX)**
Viantha Naidoo, University of Cape Town, South Africa
- 16:45-17:05** Title: **Synthesis of TiO₂ nanotubes over Ti6Al4V surface to improve osteocompatibility of bone implants**
Sahely Saha, National Institute of Technology, Rourkela, India
- 17:05-17:25** Title: **Cellular aging of the immune system: Causes and consequences**
Renu Balyan, National University of Singapore, Singapore
- 17:25-17:45** Title: **Derivation of mesenchymal stem cells from umbilical cord by comparing two enzyme digestion methods: Differentiation of osteogenic cells from UC MSCS**
Fathima Zahara Mansoor, Nawaloka Green Cross Labs, Sri Lanka

Panel Discussion

Day 2 September 12, 2017

Seletar

Keynote Forum

- 09:00-09:40** Title: **Transforming tissue repair into truly regeneration with L-PRF**
Nelson Pinto, University of the Andes, Chile
- 09:40-10:20** Title: **Regulatory considerations for regenerative therapeutics: US perspective**
Debra Webster, Cardinal Health Regulatory Sciences, USA
- 10:20-11:00** Title: **Polyamine mediated regulation of wound healing**
Leah Vardy, A*STAR, Singapore

Networking & Refreshment Break 11:00-11:15 @ Seletar Foyer

Sessions:

Cell & Organ Regeneration | Tissue Repair & Regeneration | Advances in Stem Cell | Rejuvenation- Fight Aging

Session Introduction

Session Chair: Alain Chapel, IRSN- Institute of Radioprotection and Nuclear Safety, France

Session Co-chair: Nelson Pinto, University of the Andes, Chile

- 11:15-11:35** Title: **Quiescent pluripotent stem cells capable of expressing SOX2, OCT4, KLF4 and c-Myc reside within peripheral nerves in adult mammals and can differentiate into cells of all 3 germ layers**
Michael H Heggeness, University of Kansas School of Medicine, USA
- 11:35-11:55** Title: **New developments in biologic approaches to articular cartilage regeneration**
Susan Chubinskaya, Rush University, Uniter States
- 11:55-12:15** Title: **Tissue engineering and 3D printing of meniscal, tendon and musculoskeletal structures**
Wilson Wang Ee Jen, National University of Singapore
- 12:15-12:35** Title: **POT1 maintains hematopoietic stem cell activity by protecting against DNA damage and metabolic alterations**
Fumio Arai, Kyushu University, Japan

12:35-12:55 Title: **Rejuvenation approach to treat chronic kidney diseases**
Shrikant L. Kulkarni, Kulkarni Clinic, India

Lunch Break 12:55-13:55 @ Atrium Restaurant

Sessions:

Bone Tissue Engineering | Scaffolds in Regenerative Medicine | Cancer Therapy

Session Introduction

Session Chair: Alain Chapel, IRSN- Institute of Radioprotection and Nuclear Safety, France

Session Co-chair: Nelson Pinto, University of the Andes, Chile

13:55-14:15 Title: **Advanced 3D vascularized in vitro models of human bone and muscle to study tumor cell extravasation**
Matteo Moretti, IRCCS Galeazzi Orthopedic Institute, Italy

14:15-14:35 Title: **Oncogenic transcription factor STAT3 as a target for cancer prevention and therapy**
Gautam Sethi, National University of Singapore, Singapore

14:35-14:55 Title: **A microRNA-638/ferritin gene: Pseudogene network regulates iron storage in prostate cancer**
Yvonne Tay, National University of Singapore, Singapore

14:55-15:15 Title: **Mapping cardiac progenitor cell fate via the mitochondria**
Sang-Bing Ong, Duke-NUS Medical School, Singapore

15:15-15:35 Title: **Adiponectin regulation of AMPK on oleanolic acid treated Sprague Dawley rats**
Emmanuel Mukwevho, North West University, South Africa

Networking & Refreshment Break 15:35-15:50 @ Seletar Foyer

15:50-16:10 Title: **Development and characterization of a bioactive porous collagen/ β -tricalcium phosphate graft for bone tissue engineering**
Nafiseh Baheiraei, Tarbiat Modares University, Iran

16:10-16:30 Title: **Biological potent heteroaryl ketone Schiff base and thorium(IV) complexes of 2-benzoaminothiazole**
Neelima Mishra, Sanskriti University, India

Poster Presentations: 16:30-17:30

Poster Judge: Alain Chapel, IRSN- Institute of Radioprotection and Nuclear Safety, France

TSRM- 401 Title: **Biophysical methods for scaffolds evaluation in rats**
Elena A Gubareva, Kuban State Medical University, Russia

TSRM- 402 Title: **Experience of decellularized diaphragm matrices creation on nonhuman primate model**
Elena A Gubareva, Kuban State Medical University, Russia

TSRM- 403 Title: **Cytotoxicity evaluation of biological and synthetic materials for bone regeneration**
Elena V Kuevda, Kuban State Medical University, Russia

TSRM- 404 Title: **Optimal cell sources for smooth and skeletal muscle matrices recellularization in rats**
Elena V Kuevda, Kuban State Medical University, Russia

TSRM- 405 Title: **Paricalcitol protects the kidney injury against radiocontrast in mice**
Jin Hyun Kim, Gyeongsang National University Hospital, South Korea

TSRM- 406 Title: **Poly (3-hydroxybutyrate)-chitosan/alumina nanowires electrospun nanocomposite scaffolds for tissue engineering applications**
Elahe Bahremandi Toloue, Isfahan University of Medical Sciences, Iran

TSRM- 407 Title: **A bi-layer and biomimetic scaffold for tissue engineering of vascular graft**
Elahe Bahremandi Toloue, Isfahan University of Medical Sciences, Iran

TSRM- 408 Title: **The role of oxidative stress as a mutational mechanism on telomeric deletion events**
Raniah Alotibi, King Saud bin Abdulaziz University for Health Sciences, Saudi Arabia

TSRM- 409 Title: **Efficacy of umbilical cord lining mesenchymal stem cells for wound healing in diabetic murine model**
Lim Fui Ping, National University of Singapore, Singapore

Panel Discussion

Awards & Closing Ceremony