

5. SYMPOSIUM OF REGENERATIVE MEDICINE **“STEM CELLS - A VISION BEYOND BORDERS”**

November 29th 2018

- 11.00 - 12.00 **Registration**
- 12.00 – 13.15 **Digital Symposium of regenerative medicine**
Moderators: Katarina Bajec, Dragan Pendic
- 12.00 - 12.15 Block chain-a and Cloud-a usage in medical research
Milan Rajlic, Serbia
- 12.15 - 12.30 Progress and technological innovations in the field of digital healthcare.
Implications of laws and regulations from the field of protection and
privacy of information in the context of digital health
Dragan Pendic, Serbia
- 12.30 – 12.45 Swedish healthcare system project
Ana Bajec, Serbia
- 12.45 – 13.00 Digital health Solutions designed to improve disease prevention, achieve early disease
Detection and increase therapy adherence in ophthalmology.
Katarina Bajec, Serbia
- 13.00 – 13.15 **Discussion**
- 13.15 - 13.30 **Coffee break**
- 13.30 – 15.50 **SESSION 1 – Basic science in regenerative medicine**
Moderators: Zoran Ivanovic, Marco Liccardo
- 13.30 – 13.40 Mesenchymal Stem Cells: Confusion and mix-up
Zoran Ivanovic, France
- 13.40 – 13.50 Mitochondrial stress response as marker of disease development and aging process
Aleksandra Trifunovic, Germany
- 13.50 – 14.00 New therapeutic options using stem cells in neurology - an overview of current research
Magdalena Chroscinska Krawczyk, Poland

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- 14.00 – 14.10 The role of ultrasound in regenerative injection treatment
Arif Soemarjono, Indonesia
- 14.10 – 14.20 PRP management and quality control : from the first steps of regenerative medicine and surgery to new applications in orthopaedics
Marco Liccardo, Italy
- 14.20 – 14.30 Allogeneic blood components in clinical use
Dušan Vučetić, Serbia
- 14.30 – 14.40 Mesenchymal Stromal/stem Cell-derived Extracellular Vesicles Promote Human Cartilage Regeneration In Vitro
Magdalena Lorenowics, The Netherlands
- 14.40 – 14.50 Potential applications of bone marrow derived microvesicles
Marija Milivojevic, Serbia
- 14.50 - 15.00 Regulation on cell therapies
Marko Strbad, Slovenia
- 15.00 – 15.10 Technological and business trends in cell therapy - challenges for 21st century
Miomir Knežević, Slovenia
- 15.10 – 15.20 Functional Bio-Based Materials In Regenerative Medicine
Branka Pilic, Serbia
- 15.20 – 15.30 Development of biomimetic bioreactors and new biomaterials for regenerative medicine usage
Bojana Obradović, Serbia
- 15.30 – 15.40 Key components in biomimetic osteochondral tissue engineering
Ivana Gadjanski, Serbia
- 15.40 – 15.50 **Discussion**
- 16.00 **OPENING CEREMONY**

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- 09.00 - 10.00 **Plenary session**
- 09.00 - 09.20 Novel bioplatfroms for the biomedical and health sciences
Suwan Nalin Jayasinghe, UK
- 09.20 - 09.40 Bionic replacment of upper extremity as an alternative to free microvascularised muscle transfer
Marko Bumbaširević, Serbia
- 09.40 – 10.00 New frontiers in stem cell stimulation
Dušan Maric, Serbia
- 10.00 – 11.10 **SESSION 2 – Stem cells, preparation and application**
Moderators: Nenad Lujić, Dzihan Abazovic
- 10.00 - 10.10 The power of stem cell: From basic research to therapy
Dzihan Abazovic, Montenegro
- 10.10 – 10.20 Evaluation of the effectiveness of using micro-fragmented adipose tissue in the LIPO-AMIC technique in the knee
Fabio Valerio Sciarretta, Italy
- 10.20 – 10.30 Significance of stem and mesenchymal cells characterization in autologous bone marrow preparation in regenerative medicine tremens
Danilo Vojvodić, Serbia
- 10.30 – 10.40 Flow cytometry in STEM cell research and therapy
Ivan Stanojević, Serbia
- 10.40 – 10.50 Modern aspects of bone transplantation and bone marrow
Nenad Lujić, Serbia
- 10.50 – 11.00 Pathohistological aspects of cell and tissue transplantation
Jelena Sopta, Serbia
- 11.00 – 11.10 **Discussion**
- 11.10 – 11.30 **Coffee break**

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- 11.30 – 12.50 **SESSION 3 – Stem cells in joint disease**
Moderators: Gabriel Nierenberg, Nuri Aydin
- 11.30 – 11.40 The Rheumatoid Shoulder: Current Surgical Treatments
Nuri Aydin, Turkey
- 11.40 – 11.50 Treatment of osteoarthritis of the knee by regenerative formulations – Bone Marrow Aspirate Concentrate (BMAC), PRP (Platelet Rich Plasma) and Hyaluronic Acid – Mechanisms, Effects, and Comparison of Clinical Results
Oliver Dulić, Serbia
- 11.40 – 11.50 Operative treatment of osteochondral lesions of talus with stem cells-case report
Vladimir Harhaji, Serbia
- 11.50 - 12.00 Operative Application Of Autologous Bone Marrow Mesenchymal
Vilijam Velkovski, Macedonia
- 12.00 – 12.10 Regenerative medicine in hip pathology
Goran Tulic, Serbia
- 12.10 – 12.20 Cartilage regeneration in Ankle OR knee
Hilmi Karadeniz, Turkey
- 12.20 – 12.30 Subhondroplastic in resolving knee pain as a consequence of femur and tibia “bone bruise” - operative technique and results
Gordan Gavrilović, Serbia
- 12.30 – 12.40 The role of stem cells in arthritic knees
Tsoukas Dimitrios
- 12.40 – 12.50 **Discussion**
- 12.50 – 13.40 **SESSION 4 – Stem cells in joint injuries**
Moderators: Tashin Beyzedoglu, Gabriel Nierenberg
- 12.50 – 13.00 Tissue Regeneration Techniques in Sports Medicine
Tashin Beyzedoglu, Turkey
- 13.00 – 13.10 Surgical Correction of Patella Maltracking - Midterm, Clinical Follow up
Gabriel Nierenberg, Israel

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- 13.10 – 13.20 Application of regenerative medicine in diseases and injuries of the hand
Tomislav Palibrk, Serbia
- 13.20 – 13.30 Injuries rotator cuff shoulder treated with platelet-rich plasma activated with autologous thrombin-four years experience
Ivan Lukić, Serbia
- 13.30 – 13.40 **Discussion**
- 13.40 – 14.10 **Free paper session**
- 14.10 – 15.10 **Lunch**
- 15.10 – 16.20 **SESSION 5 – Application of stem cells in spinal cord injuries and neurodegenerative diseases**
Moderators: Himanshu Bansal, Erdal Karaöz
- 15.10 – 15.20 Autologous stem cells in treatment of neurodegenerative diseases
Himanshu Bansal, India
- 15.20 – 15.30 Augmentation of nerve regeneration following nerve repair using stem cells – myth or reality: Is there a new horizon within biological challenges?
Lukas Rasulic, Serbia
- 15.30 – 15.40 Stem cell application in neurological disorders
Aleksandar Pantović, Serbia
- 15.40 – 15.50 Mesenchymal stem cell-based therapies for neuro-degenerative disorders: today and tomorrow
Erdal Karaöz, Turkey
- 15.50 – 16.00 Stem cell treatment-results of a pilot project in the treatment of cerebral palsy
Dušan Marić, Serbia
- 16.00 – 16.10 Biological nucleoplasty
Vladimir Papić, Serbia
- 16.10 – 16.20 **Discussion**

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- 16.20 – 17.30 **SESSION 6 – Regenerative medicine in aesthetics and plastic surgery**
Moderators: Katarina Anđelkov, Vileta Skorobać Asanin
- 16.20 – 17.00 Stromal vascular fraction (SVF) in plastic surgery
Katarina Anđelkov, Serbia
- 17.00 – 17.10 Regenerative potential of fat cells: how much histological findings have an influence on surgical practice
Vileta Skorobać Asanin, Serbia
- 17.10 – 17.20 PRP in skin rejuvenation
Rada Jevtić, Serbia
- 17.20 – 17.30 **Discussion**
- 17.30 – 18.00 **Free paper session**
- 20.00 **GALA DINNER**

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December 1st 2018

- 09.00 – 10.40 **SESSION 7 – Regenerative medicine in other fields (Urology, Gineacology, Cardiology)**
Moderators: Aleksandar Ljubić, Nasser Aghdami
- 09.00 - 09.10 Decidua stroma cell; Potential New Therapy for acute Inflammatory Diseases (GVHD)
Behnam Sadeghi, Sweden
- 09.10 - 09.20 New approach to cancer therapy: CAR-T Cell
Nasser Aghdami, Iran
- 09.20 – 09.30 Ovarial rejuvenation – dream of reality
Aleksandar Ljubić, Serbia
- 09.30 – 09.40 Corporeal rejuvenation with platelet Rich plasma as a treatment for erectile Dysfunction
Shawket Alkhayal, UAE
- 09.40 – 09.50 Cell therapy in nephrology and kidney disorders
Nasser Aghdami, Iran
- 10.00 – 10.10 Application of regenerative methods in urological therapy
Slađana Kovačević, Serbia
- 10.10 – 10.20 Regenerative medicine in rheumatic disease
Goran Radunović, Serbia
- 10.20– 10.30 Bioregenerative fibrin as a valuable tool for reducing allogeneic blood transfusion
Slobodan Mićović
- 10.30 – 10.40 **Discussion**
- 10.40 – 11.10 **Free paper session**

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- 11.10 – 12.30 **SESSION 8 – New frontiers in bone and cartilage regeneration**
Moderators: Dragan Primorac, Jehan Jomaa El-Said El Jawhari
- 11.10 – 11.20 Bone marrow stem cells for bone healing ; what we learn so far
Jehan Jomaa El-Said El Jawhari, UK
- 11.20 – 11.30 A New Paradigm in Cartilage Regeneration
Dragan Primorac, Croatia
- 11.30 – 11.40 A Novel Bio-Targeting Technique in the Treatment of Cartilage Lesions
Murat Bozkurt, Turkey
- 11.40 – 11.50 Keeping up with the latest trends: autologous perioperative prepared cartilage scaffold in the treatment of osteochondral lesion
Dzihan Abazovic, Montenegro
- 11.50 – 12.00 Cartilage regeneration after joint preserving surgeries
Fatih Kucukdurmaz, Turkey
- 12.00 – 12.10 Surgical repair of cartilage lesions with the combination of separated bone-marrow MSC and various biomaterials
Matej Drobnic, Slovenia
- 12.10 – 12.20 Precursor cells Xenotransplantation for hyaline cartilage restoration
Nebojsa Nastov, Macedonia
- 12.20 – 12.30 **Discussion**
- 12.30 – 13.00 **Free paper session**
- 13.00 – 13.15 **Closing remarks**

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**POST-CONGRESS COURSES
(Place and time will be provided to the course participants)**

HANDS ON TRAINING

- 13.30 – 16.30 Ultrasound guided injection
- 13.30 – 16.30 Aspiration of Bone marrow and Preparation of BMAC
- 13.30 – 16.30 Preparation of the Stromal vascular Fraction