

SCIENTIFIC PROGRAMME

International Seminar on Biomaterials and Regenerative Medicine - BIOREMED 2017

- Today's research for tomorrow medicine –

Timișoara, România
October 05th -07th, 2017

THURSDAY, October 05th, 2017

- 08.00 – 18.30 **Registration**
GROUND FLOOR, Victor Babeș University for Medicine and Pharmacy Timișoara
- 08.30 – 09.00 **Opening Ceremony**
AULA MAGNA, Victor Babeș University for Medicine and Pharmacy Timișoara
- 09.00-11.30 **Session Plenary Keynote Conferences 1**
Chairs: Charles James Kirkpatrick (Germany), Meda-Lavinia Negrutiu (Romania)
AULA MAGNA, Victor Babeș University for Medicine and Pharmacy Timișoara
- 09.00-09.30 **Charles James Kirkpatrick (Germany)** - *Self-organizing systems in Regenerative Medicine*
- 09.30-10.00 **Adrian Gh. Podoleanu (U.K.)** - *High resolution non destructive testing using master slave optical coherence tomography*
- 10.00-10.30 **Iulian Antoniac (Romania)** - *Metallic biomaterials and their importance to medical applications*
- 10.30-11.00 **Yasuhiko Tabata (Japan)** - *Release technology of cell recruitment molecules to induce in situ tissue regeneration therapy*
- 11.00-11.30 **Discussions**
- 11.30-11.50 **Coffee break**
Poster Session
Chairs: Angela Kamer (USA), Melinda Szekely (Romania), Cristina-Maria Borșun (România)
IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara
- 11.50-14.00 **Session Plenary Keynote & Invited Conferences 2**
Chairs: Adrian Podoleanu (UK), Cosmin Sinescu (Romania)
AULA MAGNA, Victor Babeș University for Medicine and Pharmacy Timișoara
- 11.50-12.20 **Norina Consuela Forná (Romania)** - *Oral rehabilitation, between classic and minim invasive*
- 12.20-12.50 **Marius Traian Lerețter (Romania)** - *Immediate implant loading in periodontal affected patients using autologous restorative material*
- 12.50-13.20 **Angela R. Kamer (USA)** - *Peripheral infections/inflammations and Alzheimer's disease: the periodontal link*
- 13.20-13.40 **Kinga Laczóné Turzó (Hungary)** - *Surface modification and biointegration of dental implants*
- 13.40-14.00 **Wenche S. Borgnakke (USA)** - *The traveling oral microbiome - and its different compositions related to various restorative materials*
- 14.00 – 15.00 **Lunch break (Fusion Restaurant - Bastion Theresia, Timișoara, Romania)**
Poster Session
Chairs: Virgil-Florin Duma (Romania), Cosmin M. Cotrut (Romania), Ioana Csaki (Romania)
IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara
- 15.00 – 16.30 **Session BIOMATERIALS 1: Invited Conferences & Oral Presentations**
Chairs: Kunio Ishikawa (Japan), Virgil-Florin Duma (Romania)
AULA MAGNA, UMF "Victor Babeș Timișoara -
- 15.00 – 15.20 **Florin Miculescu (RO)**– *Sustainable use of biogenic resources for developing calcium phosphates bioceramics and microcomposites*

- 15.20-15.40 **Hyungsuck Cho (Korea)** - *Recent Advances in Biomedical Optical Imaging: The Role of Optomechatronic technology*
- 15.40–16.00 **Virgil-Florin Duma (RO)**- *Biomedical imaging with Optical Coherence Tomography. Systems and applications*
- 16.00 – 16.10 **Florina D. Ivan, Vera Balan, Maria Butnaru, Ionel M. Popa, Liliana Verstiuc** - *Magnetic scaffolds based on biopolymers-calcium phosphates mixtures and inclusions of SPIONs for bone tissue regeneration*
- 16.10 – 16.20 **Lucian Toma Ciocan, Bogdan Gălbinașu, Claudiu Calin, Roxana Ilici, Ion Pătrașcu** - *Clinical evaluation of modern minimal invasive ceramic systems*
- 16.20 – 16.30 **Claudiu Călin, Lucian Toma Ciocan, Bogdan Gălbinașu, Ion Pătrașcu** - *Histomorphometric analysis of postextractional osseous defects treated with beta-tricalcium phosphate and platelet-rich fibrin*
- 15.00 – 16.30 **Session DENTAL BIOMATERIALS 1: Invited Conferences & Oral Presentations**
Chairs: *Cristina Maria Borșun (Romania), Veronica Mercuț (Romania), Diana Dudea (Romania)*
SENAT HALL, Victor Babeș University for Medicine and Pharmacy Timișoara
- 15.00 – 15.20 **Veronica Mercuț (Romania)** - *OCT aspects in dental wear*
- 15.20 – 15.40 **Diana Dudea (Romania)** - *Visual versus instrumental methods for the evaluation of the dental bleaching*
- 15.40 – 16.00 **Cristina Maria Borșun (Romania)** – *Experimental studies on dental resins*
- 16.00 – 16.10 **Cristina Gasparik, Justine Decroix, Mihai Varvara, Alexandru Victor Burde, Bogdan Culic, Diana Dudea** - *Influence of Coffee Staining on the Optical Properties of New Chair-side CAD-CAM Materials*
- 16.10 – 16.20 **Greta Delia Cristina, Gasparik Cristina, Dudea Diana** - *Study upon the color matching of full coverage esthetic crowns*
- 16.20 – 16.30 **Sorana Baci, Cristian Berece, Marius Manole, Adrian Florea, Alexandru Victor Burde, Andrada Voina Tonea** - *Comparison of two evaluating methods for establishing the marginal fit of heat pressed resin inlays*
- 16.30-16.50 **Coffee break**
- Poster Session**
Chairs: *Veronica Mercuț (Romania), Diana Dudea (Romania)*
IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara
- 16.50 – 18.30 **Session BIOMATERIALS 2: Invited Conferences & Oral Presentations**
Chairs: *Sigrun Knutsdottir (Iceland), Corneliu Munteanu (Romania), Gheorghe Dan (Romania)*
AULA MAGNA, Victor Babeș University for Medicine and Pharmacy Timișoara
- 16.50-17.10 **Cosmin M. Cotrut (Romania)** - *Coatings used in prosthetic dentistry for ceramics adherence enhance*
- 17.10-17.30 **Mirabela Georgiana Minciună (Romania)**- *Cobalt-chromium alloys with improved properties for dental applications*
- 17.30-17.50 **Istrate Bogdan (Romania)**- *Influence of Yttrium in Mg-1Ca-0.5Mn-nY biodegradable alloys (n = 1,2,3)*
- 17.50-18.00 **Diana M. Vranceanu, Alina Vladescu, Mihaela Dinu, Anca Parau, Cosmin Cotrut** - *Ag doped hydroxyapatite bioactive coatings for medical applications*
- 18.00-18.10 **Ioana Csaki, Sigrun Nanna Karlsdottir, Vlad Motoiu, Magdalena Lungu** - *Composite coatings designed for corrosive environments*
- 18.10-18.20 **Liliana Porojan, Lucian Rusu, Adrian Boloș, Cristina Savencu, Sorin Porojan** - *Assessment of the fracture behavior of bilayered zirconia-ceramic and metal-ceramic crowns*
- 18.20-18.30 **Sorin Porojan, Mihaela Bîrdeanu, Cristina Savencu, Liliana Porojan** - *Topographical and quantitative evaluation of Co-Cr dental alloys roughness related to the manufacturing technology*
- 16.50 – 18.30 **Session DENTAL BIOMATERIALS 2: Invited Conferences & Oral Presentations**
Chairs: *Mihai Romînu (Romania), Sanda Mihaela Popescu (Romania), Cristian Rațiu (Romania)*
SENAT HALL, Victor Babeș University for Medicine and Pharmacy Timișoara
- 16.50 – 17.10 **Sanda Mihaela Popescu (Romania)**- *The behavior of dental filling materials used for abfraction lesions*
- 17.10 – 17.30 **Mihai Romînu (Romania)** - *Clinical and structural considerations of some direct composite material*

- 17.30 – 17.50 **Monica Scricciu (Romania)** - *Histopathological and immunohistochemical aspects of paraprosthetic gingival mucosa lesions induced by Ni-Cr metal alloys*
- 17.50 – 18.00 **Anca Porumb, R. Matei, Simona Cavalu, R.A.Popovici, L. Todor** - *The glass ionomer cement reinforced with silver – premise in choosing the teeth extracted for orthodontic purpose: a case study*
- 18.00 – 18.10 **Ruxandra Matei, Liana Todor, Ioniță Chiculiță, Anne-Marie Rauten, Anca Porumb** - *Tensile testing experimental models for measuring the adhesion strength of dental composites - a critical reviews*
- 18.10 – 18.20 **Cristian Rațiu, Ruxandra Matei, Liana Todor, Adrian Almași, Ioniță Chiculiță, Anca Porumb** - *Dental composites - physical and mechanical properties determination and values. A critical review*
- 18.20 – 18.30 **Varvara Adrian Mihai, Gasparik Cristina, Culic Bogdan, Bondor Cosmina Ioana, Varvara Elena Bianca, Furtos Gabriel, Moldovan Marioara, Dudea Diana** - *Radiopacity of chairside CAD CAM milling materials*

19.00 Official Reception (Baroque Hall, Art Museum Timișoara, 1 Union Square)

FRIDAY, October 06th, 2017

09.00-11.30 **Session Plenary Keynote Conferences 3**

Chairs Guy Daculsi (France), Iulian Antoniac (Romania)

AULA MAGNA, Victor Babeș University for Medicine and Pharmacy Timișoara

- 09.00-09.30 **Guy Daculsi (France)** - *Orthobiology and bone regeneration, from R&D to clinical performance*
- 09.30-10.00 **Ahmed El-Ghannam (USA)**- *Mechanism of Bone Reconstruction in Diabetic Patients Grafted with SCPC Bioactive Ceramic*
- 10.00-10.30 **Corrado Piconi (Italy)** - *Metal-free Dental Implantology: Zirconia, what's Next?*
- 10.30-11.00 **Iliaria Cacciotti (Italy)** – *Electrospun fibrous mats as promising platforms for regenerative medicine*
- 11.00-11.30 **Kunio Ishikawa (Japan)** - *Fabrication and Tissue Response to Self-setting β -Tricalcium Phosphate Granules Cement*

11.30-11.50 **Coffee break**

Poster Session

Chairs: Iliaria Cacciotti (Italy), Răzvan Adam (Romania)

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11.50-13.50 **Session Plenary Keynote Conferences 4**

Chairs: Franco Rustichelli (Italy), Florin Miculescu (Romania), Dan Lăptoiu (Romania)

AULA MAGNA, Victor Babeș University for Medicine and Pharmacy Timișoara

- 11.50-12.20 **Lia Rimondini (Italy)**– *Multifunctional bioceramics: how to seek a draw in the race for the surface*
- 12.20-12.50 **José Miguel Martín Martínez (Spain)**- *New flexible polyurethane foams for filling residual pleural cavities in lungs*
- 12.50-13.20 **Franco Rustichelli (Italy)**- *From tissue engineering in orthopedy and dentistry to regenerative cardiology and neurology*
- 13.20-13.50 **Cătalîn Cirstoiu (Romania)** - *Modular reconstruction systems - viable biomechanical options after oncologic or critical bone defects surgery*

13.50 – 15.00 **Lunch break** (Fusion Restaurant - Bastion Theresia, Timișoara, Romania)

Poster Session

Chairs: Horia Manolea (Romania), Lucian-Toma Ciocan (Romania), Marius Manole (Romania)

IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara

15.00 – 16.50 **Session BIOMATERIALS IN ORTHOPEDICS 1: Invited Conferences & Oral Presentations**

Chairs: Cătalîn Cirstoiu (Romania), Adrian Barbilian (Romania), Marius Niculescu (Romania)

AULA MAGNA, Victor Babeș University for Medicine and Pharmacy Timișoara

- 15.00 – 15.20 **Olivera Lupescu (Romania)** – *Enhancing Tissue Regeneration by using Negative Pressure Therapy in Infected Limb Injuries*
- 15.20 – 15.40 **Răzvan Ene (Romania)** – *Material analysis and biomechanical concept in trauma implant failure*

- 15.40 – 15.50 **Răzvan Turcu, Marius Moga, Adrian Barbilian** – *Cemented hemiarthroplasty in elderly after complex fracture of the proximal humerus*
- 15.50 – 16.00 **Marius Moga, Augustin Semenescu, Mihnea Cosmin Costoiu, Ileana Mariana Mateș, Cezar - Ionuț Călin, Catalin Gheorghe Amza, Mark-Edward Pogărășteanu** – *An alternative femoral stem – bone implantation technique using an innovative short femoral stem endoprosthesis*
- 16.00 – 16.10 **Mark-Edward Pogărășteanu, George Dinache, Marius Moga, Adrian Barbilian** – *Difficulties in signal transmission across the interface between skin and surface electrodes in myoelectric forearm and hand exoprosthesis*
- 16.10 – 16.20 **Oltean-Dan D., Dogaru GB, Apostu D., Toader S., Tomoaia-Cotisel M., Tomoaia Gh** – *Comparative study regarding the efficacy of the treatment with short pulse waves in femoral fractures operated with titanium and collagen coated titanium intramedullary nails on murine models*
- 16.20 – 16.30 **Răzvan Ene, Zsombor Panti, Mihai Nica, Mihnea Popa, Marian Pleniceanu, Monica Cirstoiu, Iulian Antoniac, Catalin Cirstoiu**– *Posterior cruciate ligament reconstruction with femoral cortical suspension devices in young patients*
- 16.30 – 16.40 **Răzvan Ene, Mihnea Popa, Mihai Nica, Zsombor Panti, Marian Pleniceanu, Monica Cirstoiu, Catalin Cirstoiu**– *Enhancing Tissue Regeneration by using Negative Pressure Therapy in Infected Limb Injuries*
- 16.40 – 16.50 **Dan Cristian Paul, Paiusan Mihai Gheorghe, L-Dan Daniel, Tomoaia Gheorghe**– *Allergic reaction and reproductive toxicity caused by nickel*

15.00 – 16.50 **Session DENTAL BIOMATERIALS 3: Invited Conferences & Oral Presentations**

Chairs: Kiro Papakoca (FYROM), Horia Manolea (Romania), Kamel Earar (Romania)

SENAT HALL, Victor Babeș University for Medicine and Pharmacy Timișoara

- 15.00-15.20 **Kiro Papakoca (FYROM)**- *Current biomaterials and surgical techniques used in oral implantology*
- 15.20-15.40 **Horia Manolea (Romania)**- *Evaluation of two socket preservation materials osseointegration in small diameter bone cavities. An in vivo lab rats study*
- 15.40-15.50 **Ondine Lucaciu, Anca Ionel, Olga Soritau, Cristi Berce,Dragos Apostu,Flaviu Tăbăran, Roxana Bordea, Radu Septimiu Câmpian** - *Dental Follicle Stem Cells as a biomaterial for periodontal regeneration. A “proof-of-concept” study.*
- 15.50-16.00 **Serban Talpos, Costin Timofte, Horatiu Urechescu, Felicia Streian, Mircea Rivis, Tareq Hajaj, Marius Pricop** - *Clinical Advantages Of Biomaterials Used In Guided Bone Regeneration (GBR)*
- 16.00-16.10 **Horatiu Urechescu, Sergiu-Valentin Galatanu, Marius Pricop, Șerban Talpos** - *Experimental compression and traction tests on heat-cured PMMA and thermoplastic materials used for fabrication of maxillary obturator prostheses*
- 16.10-16.20 **Alexandru Andrei Iiescu, Paula Perlea, Sorin Daniel Porojan, Liliana Porojan, Kamel Earar** - *Thermographic analysis of burs and bone heating developed during osteotomy for dental implant placement: an in vitro study-*
- 16.20-16.30 **Daniela Tănase, Elena Amăricăi** - *Interdisciplinarity in the rehabilitation of patients with sclerodermia*
- 16.30-16.40 **Roxana Bordea, Stavros Pelekanos, Simion Bran, Florin Onișor, Marius Manole, Sorana Baciu, Ondine Lucaciu, Iulian Antoniac, Radu Septimiu Câmpian** - *Effect of laser activation on an experimental biomaterial*
- 16.40-16.50 **Roxana Bordea, Ondine Lucaciu, Radu Septimiu Câmpian, Sorana Baciu, Bran Simion, Iuliu Antoniac, Marius Manole** - *Assessment of colour changes and light transmission through nano-hybrid dental composite biomaterials during curing*

16.40-17.00 **Coffee break**

Poster Session

Chairs: Istrate Bogdan (Romania), Mirabela Georgiana Minciună (Romania)

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17.00 – 19.00 **Session BIOMATERIALS IN ORTHOPEDICS 2: Invited Conferences & Oral Presentations**

Chairs: Rodica Marinescu (Romania), Olivera Lupescu (Romania), Răzvan Ene (Romania)

AULA MAGNA, Victor Babeș University for Medicine and Pharmacy Timișoara

- 17.00 – 17.20 **Olivera Lupescu (Romania)** – *Biomaterials in stabilizing tibial plateau fractures- vocational training enhancing the surgical skills*
- 17.20 – 17.40 **Rodica Marinescu (Romania)** – *Particles disease in total joint replacement – relationship with bone osteolysis*

- 17.40 – 17.50 **Răzvan Adam, Iulian Antoniac, Mark Pogarasteanu**– *Bisphosphonates influence on bone metabolism - Atypical Femur Fractures*
- 17.50 – 18.00 **Luminita Labusca, Dumitru Daniel Herea, Ecaterina Radu, Horia Chiriac, Nicoleta Lupu** - *Fe-Cr-Nb-B Magnetic Nanoparticles interaction with human mesenchymal stem cells*
- 18.00 – 18.10 **Mihail Nagea, Olivera Lupescu, Taina Avramescu, Alexandru Dimitriu, Nicolae Marian Ciurea, Gheorghe Popescu** – *Implant Material does not Influence Gait Analysis following Ankle Fracture Surgery*
- 18.10 – 18.20 **Mihail Nagea, Olivera Lupescu, Taina Avramescu, Alexandru Dimitriu, Nicolae Marian Ciurea, Gheorghe Popescu** – *Gait Analysis in Evaluating Post-Operative Outcome after Cementless Total Hip Replacement*
- 18.20 – 18.30 **S Florescu, J M Patrascu, D Cojocar, M Sandesc** – *Adverse reactions to biomaterials used in acl reconstruction*
- 18.30 – 18,40 **Dan Laptoiu, Iosefina Botezatu, Rodica Marinescu, Iulian Antoniac, Ionut Stoia** - *Finite Elements Analysis of failure modes after osteosynthesis with Midfoot Fusion Bolts in Charcot Foot Surgery*
- 18.40 – 18,50 **Mihai Nica, Ene Razvan, Panti Zsombor , Mihnea Popa, Monica Cirstoiu, Cătălin Cirstoiu**– *Soft tissue reactivity to metallic buttons and UHMWPE braided suture wires suspension system used for treatment of Hallux Valgus*
- 18.50 – 19.00 **Bălțatu Mădălina Simona, Vizureanu Petrică, Focșăneanu Sergiu Ciprian, Istrate Bogdan, Bloch Kasia, Nabialek Marcin, Sandu Andrei Victor** - *Development of Ti-Mo-Si New Biomaterials for Orthopedic Applications*

17.00 – 19,00 **Session DENTAL BIOMATERIALS 4: Invited Conferences & Oral Presentations**

Chairs: Anca Jivănescu (Romania), Luminița Maria Nica (Romania), Luciana Goguță (România)

SENAT HALL, Victor Babeș University for Medicine and Pharmacy Timișoara

- 17.00 – 17.20 **Luminita Maria Nica (Romania)** - *The use of bioceramic materials in endodontic therapy*
- 17.20 – 17.40 **Anca Jivănescu (Romania)** - *CAD/CAM technology and ceramic materials: realities and perspectives*
- 17.40 – 17.50 **Radu Rică, Eugen Osiac, Nicoleta Cioateră, Horia Manolea, Ana-Maria Rică, Cristina Fărcaș-Berechet, Mădălina Olivia Grădinaru, Augustin Iulian Ionescu** – *Optical coherence tomography investigation of dental porcelains with different powder/liquid mixing ratios*
- 17.50 – 18.00 **Alexandru Ogodescu, Virgil Duma, Irina Zetu, Emilia Ogodescu, Gheorghe Huțiu, George Dobre, Adrian Bradu, Adrian Podoleanu** – *Dental brackets: noninvasive investigation using μ CT and optical coherence tomography*
- 18.00 – 18.10 **Corina Marcauteanu, Eniko Tunde Stoica, Felicia Elena Mitroi, Cosmin Sinescu, Meda Lavinia Negrutiu, Gheorghe Hutiu, Roxana Beiu, Virgil-Florin Duma** – *Effect of a diode laser treatment on different types of dentine. Analysis using Raman spectroscopy and SEM*
- 18.10 – 18.20 **Felicia Elena Mitroi, Cosmin Sinescu, Corina Marcauteanu, Adrian Vaduva, Danina Muntean, Meda Lavinia Negrutiu, Eniko Tunde Stoica, Florin Topala, Adrian Stan, Virgil-Florin Duma** – *Microscopic analysis of the marginal gaps of Tizian adhesive partial crowns*
- 18.20 – 18.30 **Eniko Tunde Stoica, Corina Marcauteanu, Felicia Elena Mitroi, Cosmin Sinescu, Meda Lavinia Negrutiu, Radu Negru, Virgil Florin Duma** – *Influence of different surface pretreatments on the retention strength of adhesive Tizian partial crowns*
- 18.30 – 18.40 **Atena Galuscan, Daniela Jumanca, Ruxandra Sava Rosianu, Anamaria Matichescu, Octavia Balean** – *Benefits of bio-oxidative ozone therapy in dental prophylaxis*
- 18.40 – 18.50 **Ramona-Amina Popovici , Angela-Codruta Podariu , Alexandra-Sabina Potoroaca, Laura-Cristina Rusu, Alexandra Roi, Sergiu Alexandru Tofan, Bogdan Sink** – *Novelty in the investigation domain in dental medicine*
- 18.50 – 19.00 **Laura-Cristina Rusu, Angela Codruța Podariu , Ramona-Amina Popovici, Alexandra Ro** – *Efficacy of the autofluorescence based system (velscope™) in the detection of oral lesions*

19.30 – 20.30 **SRB General Assembly**

AULA MAGNA, Victor Babeș University for Medicine and Pharmacy Timișoara

21.00 - 24.00 **Gala Dinner** (Ivy Restaurant)

SATURDAY, October 07th, 2017

09.00-11.00 Session Plenary Keynote Conferences 5

Chairs: Fjola Jonsdottir (Iceland), Cătălin Cârstoiu (Romania)

AULA MAGNA, Victor Babeş University for Medicine and Pharmacy Timișoara

- 09.00-09.30 **Alexandru-Vlad Ciurea (Romania)** – *Modern biomaterials in endovascular treatment of cerebral aneurysms*
- 09.30-10.00 **Fjola Jonsdottir (Iceland)** - *Thermal fluctuations of an elastic filament confined in a fluid-filled channel*
- 10.00-10.30 **Ion Pătrașcu (Romania)**- *Titanium-alloyed new considerations used in complex oral rehabilitations – clinical perspectives*
- 10.30-11.00 **Adrian Mănescu (Italy)** - *Non-destructive 3D imaging of biomaterials by high-resolution x-ray micro computed tomography and holotomography. Applications in orthopedics and dentistry*

11.00-11.30 **Coffee break** - Victor Babeş University for Medicine and Pharmacy Timișoara

11.30–13.30 Session BIOMATERIALS IN NEUROSURGERY: Invited Conferences & Oral Presentations

Chairs: Alexandru Vlad Ciurea (Romania), Vicențiu Săceleanu (Romania), Horia Pleș (Romania)

AULA MAGNA, Victor Babeş University for Medicine and Pharmacy Timișoara

- 11.30 – 11.50 **Vicențiu Săceleanu (Romania)** - *Titanium miniplate osteosynthesis in maxillofacial surgery*
- 11.50 – 12.10 **Aurel Mohan (Romania)** - *Clinical Perspective on the Biomaterials used to Repair the Cranial Defects*
- 12.10 – 12.20 **Ileana Mariana Mateș, Iulian Antoniac, Augustin Semenescu, Silviu Ionel Dumitrescu, Horațiu Moldovan** – *Current Trends regarding Metallic Stents in Cardiovascular Surgery*
- 12.20 – 12.30 **Alexandru Vlad Ciurea, Aurel Mohan, Luca-Husti Ionut, Ovidiu Gramescu, Dan Bentia**, *A modern biomaterial in neurosurgery-autologous fibrin solutions (AFS) in prevention of major complications (hemorrhagic complications and CSF fistulas)*
- 12.30 – 12.40 **Dan Bentia, Horia Moraru, Alexandru Vlad Ciurea**, *Synthetic bone granules-a useful alternative in spine surgery bone fusion*
- 12.40 – 12.50 **Dan Aurel Nica, R.M. Savu, Horațiu A. Moisa, Alexandru Vlad Ciurea**, *Biomaterials in spinal surgery*
- 12.50 – 13.30 **Discussions.**

11.30 – 13.30 Session BIOMATERIALS & BIOMATERIALS IN GENERAL SURGERY 2:

Invited Conferences & Oral Presentations

Chairs: Elvira Brătilă (Romania), Daniela Ivanov (Romania), Simona Cavalu (Romania)

AULA MAGNA, Victor Babeş University for Medicine and Pharmacy Timișoara

- 11.30 – 11.50 **Liliana Verestiuc (Romania)** – *Scaffolding Biodegradable Polymers for Soft Tissue Engineering*
- 11.50 – 12.10 **Simona Cavalu (Romania)** – *Selenium nanoparticles: production, characterization and novel biological and medical applications*
- 12.10 – 12.30 **Sebastian Grădinaru (Romania)** – *Indocyanine green (ICG) fluorescence in surgery emerging method*
- 12.30 – 12.50 **Elvira Brătilă (Romania)** - *Gastro-intestinal and urinary symptoms following polypropylene mesh surgery for pelvic organ prolapse*
- 12.50 – 13.00 **Claudia Mehedințu, Elvira Brătilă, Monica Cîrstoiu, Costin Berceanu, Marina Antonovic** – *The use of topical hemostatic agents in obstetrics and gynecology - review of literature*
- 13.00 – 13.10 **Raluca Dumache, Veronica Ciocan, Camelia Muresan, Alexandra Enache** – *Genetic information in the DNA era and its ethical implications*
- 13.10 – 13.30 **Discussions.**

13.30-14.00 Closing & Award Ceremony

AULA MAGNA, Victor Babeş University for Medicine and Pharmacy Timișoara

14.00-16.00 **Lunch (Fusion Restaurant - Bastion Theresia, Timișoara, Romania)**

Legend for speakers / time for lecture:

Blue: keynote speaker (30 min), **Green:** invited speaker (20 min)

POSTER PRESENTATIONS

THURSDAY, October 05th, 2017

11.30-11.50 *Coffee break*

Poster Session –

*Chairs: Angela Kamer (USA), Melinda Szekely (Romania), Cristina-Maria Borțun (România)
IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara*

1. **Pop Daniela Maria**, Craciunescu Emanuela Lidia, Sinescu Cosmin, Florin Ionel Topală, Cristian Zaharia, Alin Gabriel Gabor, Adrian Gheorghe Podoleanu, Mihai Romînu, Meda-Lavinia Negruțiu - *Assessment of Fixed Partial Protheses Made of Thermoplastic Polymers*
2. **Adrian Tudor Stan**, Laura Elena Cirligeriu, Adrian Vaduva, Laura Idorasi, Danina Muntean, Felicia Mitroi, Roxana Buzatu, Tareq Hajaj, Meda Lavinia Negrutiu, Cosmin Sinescu, Mihai Rominu - *Interface evaluation of dental composite resins using confocal laser scanning microscopy and microCT*
3. **Laura Idorasi**, Sandra Andreea Secoșan , Alexandru Ogodescu , Cosmin Sinescu , Adrian Tudor Stan , Adrian G. Podoleanu, Meda-Lavinia Negruțiu - *New methods in combating tooth demineralization – the allopathic medicine challenge*
4. **Simona I. Hategan**, Ronald G. Craig, Cosmin Sinescu, Angela R. Kamer, Stefan I. Stratul, Andrei M. Gavrilovic, Anca Jivanescu, Meda Lavinia Negrutiu - *Chronic oral inflammatory conditions in a Romanian population– focus on periodontal disease*

14.00 – 15.00 *Lunch break (Fusion Restaurant - Bastion Theresia, Timișoara, Romania)*

Poster Session

*Chairs: Virgil-Florin Duma (Romania), Cosmin M. Cotrut (Romania), Ioana Csaki (Romania)
IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara*

5. **A.C. Mocanu**, A.Maidaniuc, C.A. Dascălu, M. Miculescu, F.Miculescu- *Study on experimental and image analysis complementarity as additional tool for characterizing biogenic calcium phosphates morphology*
6. **A.Maidaniuc**, A.C. Mocanu, C.A. Dascălu, M. Miculescu, S.I. Voicu, F.Miculescu - *Effect of sintering time on the particle interconnection of bovine bone-derived hydroxyapatite powders*
7. **Elena Iulia Oprita**, Agnes Toma, Larisa Calu and Oana Craciunescu - *Composite hydrogel enriched with SFD-1 for cartilage regeneration: characterization and biocompatibility*
8. **Luminița Fritea**, Mihaela Tertîș, Cecilia Cristea, Alan Le Goff, Serge Cosnier, Robert Săndulescu - *Graphene Based Biosensors for Dopamine Determination*
9. **Luminița Fritea**, Karine Gorgy, Alan Le Goff, Laurent Galmiche, Reynaldo Villalonga, Pierre Audebert, Serge Cosnier, Robert Săndulescu - *Electrochemical and Fluorescent Studies of Tetrazines based on Host-Guest Complexation both in Solution and Films*
10. **Dragos Peptanariu**, Cristina M. Uritu, Luminita Labusca and Mariana Pinteala - *Transfection of adipose tissue-derived stem cells with Fullerene C60 nanoparticles coated with polyethylenimine and polyethylene glycol*
11. **Ioana A. Tanasa**, Anca E. Minuti, Florina D. Ivan, Maria Butnaru, M. Zagnat, Liliana Verestiuc - *Hydrogels Based on Modified Chitosan and Synthetic Polymers with Applications in Controlled Drug Delivery*
12. **Alexandra Vasilica**, Liliana Verestiuc - *Mechanical Properties of the Hydrogels based on Crosslinked Poly (Acrylic Acid) with Potential Applications in Tissue Engineering*
13. **S. Lupescu**, C. Munteanu, B. Istrate, S.I.Strugaru, R.Cimpoesu - *The influence of Zr on microstructure, mechanical properties and corrosion resistance in Mg-Y-Zr biodegradable alloys*
14. **M. Soare**, A.C. Mocanu, C. Iordache, M.V. Predoi, D. Predoi - *Development of broadband ultrasonic spectroscopy for colloidal suspensions characterization*
15. **Victor Apostol**, Nicanor Cimpoesu, Ramona Cimpoesu, Bogdan Pricop - *Preliminary results of new biodegradable Zn-based alloys analysis*

- 16.30-16.50 *Coffee break*
Poster Session – Chairs: Veronica Mercuț (RO), Diana Dudea (RO)
IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara
16. **Székely Melinda, Frankó Evelin, Molnar-Varlam Cristina, Borș Andreea, Kerekes-Máthé Bernadette** - Preliminary results of new biodegradable Zn-based alloys analysis
 17. **Bica Cristina Ioana, Feier Andrei, Strnad Gabriela, Portan Diana, Manu Ramona Doina, Dobreanu Minodora, Russu Octav, Petrovan Cecilia** - Titanium based Nanostructured Surfaces for Biomedical Implants
 18. **Luciana Goguta, Roxana Vasiliu, Florin Topala, Adrian Candea, Anca Jivanescu** - Direct and indirect glass fiber reinforced posterior fixed partial dentures
 19. **Liana Todor, Adrian Almași, Anca Porumb, Cristian Rațiu, Ruxandra Matei** - In vitro study of the structure and adhesive interface in direct restorations with nanocomposite materials

FRIDAY, October 06th, 2017

- 11.30-11.50 *Coffee break*
Poster Session – Chairs: Ilaria Cacciotti (Italy), Răzvan Adam (Romania)
IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara
20. **Antoniac Aurora, Rusu Laura, Milea Claudia, Dragomir Lavinia, Antoniac Iulian** - Characterization and evaluation of some gel that contains encapsulated eugenol by spectral and microscopic methods
 21. **Milea Claudia, Antoniac Aurora, Manole Marius, Antoniac Iulian, Aurel Mohan** - Current trends regarding the use of periodontal dressings
 22. **Ana Maria Seciu, Alexandra Gaspar, Lucia Moldovan, Alina Ioana Nicu, Florin Miculescu, Oana Craciunescu, Otilia Zarnescu** - Osteogenic and Antibacterial Properties of Collagen-Chondroitin Sulfate Sponge Functionalized with Fibronectin and Nanosilver for Periodontitis Treatment
 23. **Camelia Tecu, Lavinia Dragomir, Aurora Antoniac, Olivera Lupescu, Iulian Antoniac, Claudia Milea, Aurel Mohan** - Characterization and testing of some composites for hard tissue repair and regeneration
- 13.50 – 15.00 *Lunch break (Fusion Restaurant - Bastion Theresia, Timișoara, Romania)*
Poster Session
Chairs: Horia Manolea (Romania), Lucian-Toma Ciocan (Romania), Marius Manole (Romania)
IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara
24. **Alex Sălan, Mădălina Matei, Laurentiu Mogoantă, Iulian Antoniac, Horia Manolea, Gabriel Ghinea, Eduard Ciucă** - Biodegradation evaluation of some experimental magnesium alloys
 25. **Mădălina Matei, Alex Sălan, Laurentiu Mogoantă, Nicoleta Cioateră, Horia Manolea, Luiza Nistor, Radu Rîcă** - Biocompatibility evaluation of some experimental dental zirconia-based ceramics
 26. **Oana Cella Andrei, Livia Alice Tănăsescu, Mircea Horia Țierean, Mihai Burlibașa, Luminița Dăguçi, Marilena Bătăiosu, Constantin Dăguçi** - Influence of masticatory area on stress levels in artificial teeth and saddle in implant supported dentures with attachments
 27. **Roxana Rugină, Alin Gabor, Cristian Zaharia, Cosmin Sinescu** - Comparative Evaluation of Molar Intrusion using Mini Screws versus Zygomatic Anchor Plates
 28. **Laura Cîrligeriu, Marius Boariu, Meda-Lavinia Negruțiu, Virgil Florin Duma, Cosmin Sinescu, Luminița Nica, Adrian Gh. Podoleanu, Adrian Marinescu, Adrian Tudor Stan** - Evaluation of Marginal Adaptation of Biodentine® in "Open Sandwich" Class II Restorations
 29. **Roxana Buzatu, Anca S. Vâlceanu, Adrian T. Stan, Meda L. Negruțiu, Radu Negru, Liviu Marșavina, Cosmin Sinescu** - Mechanical aspects of endocrowns in the aesthetic area
 30. **Cristiana Pricop, Mihai Romînu, Cosmin Sinescu, Anca Jivănescu** - Shear bond strength of two luting cements to Empress CAD/CAM Ceramic Blocks, an in vitro study
 31. **Cristina Savencu, Mihaela Bîrdeanu, Sorin Porojan and Liliana Porojan** - Corrosion behavior of casted and CAD/CAM milled Co-Cr dental alloys -In vitro study
 32. **Vasiliu Roxana-Diana, Savencu Cristina, Lazău Radu; Topală Florin- Ionel, Porojan Liliana** - Effect of multiple firings on the optical properties of two dental ceramics

33. **Raluca Mioara Cosoroaba, Cristina Talpos Niculescu, Farcas Andrei, Ali Jamil, Mirella Anghel** - *Orthostatic Consequences In The Dental Practice*
34. **Cristina Ioana Talpos Niculescu, Raluca Mioara Cosoroaba, Larisa Nistor, Mirella Anghel** - *Stress Management In The Practice of Dentistry*

16.40-17.00

Coffee break

Poster Session

Chairs: *Istrate Bogdan (Romania), Mirabela Georgiana Minciună (Romania)*

IAGNOV HALL, Victor Babeş University for Medicine and Pharmacy Timișoara

35. **Adriana Objelean, Laura Silaghi-Dumitrescu, Adrian Florea, Vasile Chis, Cristian Iacoviță** - *Atomic Force Microscopy Analysis of Abrasive Wear Strength of Some Direct Resin-based Composites*
36. **Brigitta Bokor, Amelia Boitor, Mihai Selariu, Alexandru Gavan, Adriana Objelean** - *Radio-tomographic assessment of mechanical behaviour of two resin composites in high-impact masticatory forces simulation*
37. **A.F. Dobre, M. Soare, A.C. Mocanu, A. Maidaniuc, A. Ernuțeanu, F. Miculescu** - *Study on morphological and geometrical features of metallic implants designed for dental restorations*
38. **C. Lufă, M. Soare, A.C. Mocanu, A. Maidaniuc, A. Ernuțeanu, F** - *Comprehensive nondestructive testing on metallic implants destined for orthopedic applications*
39. **Stoia D.I., Hărăguș H., Jurca L** - *Static and dynamic mobility evaluation of the human cervical spine*
40. **Brandusa Ghiban, Dan Batalu, Alexandru Ghiban, Cristina Maria Bortun, Gabriela Popescu** - *Solidification behavior of some CoCrMoTi alloys for biomedical applications*