

Welcome



Welcome to the 7th *International Conference “Biomaterials, Tissue Engineering & Medical Devices” BIOMMEDD’2016* and Constanta. Many thanks to all participants for their contribution to the conference programme. The aim of this event is to bring together scientists from biomaterials, medical devices and tissue engineering research with clinicians from medical fields who use in clinical practice the implants and prostheses made from various biomaterials. Clinicians from different specialties (dentistry, orthopedics, neurosurgery, ophthalmology, cardiovascular, aesthetic, and general surgery) will be here to present their results

on the clinical performance of current medical devices and debates on the translation of biomaterials and tissue engineering research into clinical practice. The choice of the keynote speakers will bring on stage some of the best scientists from the field of biomaterials, tissue engineering and medical devices. The value of the scientific program is supported by the presence of many important scientists from all over the world working on the field of biomaterials and tissue engineering. Round table discussions intended to promote interdisciplinary research projects will be organized and a technical exhibition will run in parallel with the scientific sessions. The conference will also give the opportunity for young scientists to discuss about the research and educational aspects. In addition, the conference will host the General Assembly of the Romanian Society for Biomaterials.

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'I. Antoniac'.

Iulian Antoniac

BIOMMEDD’2016 President

Vicepresident of the Romanian Society for Biomaterials



Committees

Conference Steering Committee

BIOMMEDD'2016 Conference Chair

Iulian Antoniac (Romania)

BIOMMEDD'2016 Conference Co-Chairs

Florin Miculescu (Romania)

Izabela-Cristina Stancu (Romania)

Chair of BIOMMEDD'2016 International Scientific Committee

Bogdan C. Simionescu (Romania)

Co-Chairs of BIOMMEDD'2016 International Scientific Committee

James C. Kirkpatrick (Germany)

Alexandru Vlad Ciurea (Romania)

Organising Committee

Iulian Antoniac	Elvira Bratila	Liliana Verestiuc	Florin Miculescu	Horia Manolea
Diana Dudea	Daniela Ivanov	Horia Manolea	Cosmin Sinescu	Anca Sin
Razvan Ene	Corneliu Munteanu	Marius Niculescu	Laura Rusu	Iulian Popa
Valeriu Ghica	Razvan Adam	Cosmin Cotrut	Aurel Mohan	Iulian Popa
Lavinia-Meda	Izabela Cristina	Ion Bogdan	Ramona Amina	Iulian Popa
Negrutiu	Stancu	Codorean	Popovici	

International Scientific Committee

Ecaterina Andronescu (Romania)	James C.Kirkpatrick (Germany)	Matteo Santin (U.K.)
Bogdan C.Simionescu (Romania)	Kunio Ishikawa (Japan)	Maria Pau Ginebra (Spain)
Mauro Alini (Switzerland)	Horia Iovu (Romania)	Iulian Antoniac (Romania)
Julietta Rau (Italy)	Dan Laptoiu (Romania)	Mihai Branzei (Romania)
Stefan Voicu (Romania)	Jose M.Martin-Martinez (Spain)	Dan Gheorghe (Romania)
Aldo Boccaccini (Germany)	Corneliu Munteanu (Romania)	Brandusa Ghiban (Romania)
Catalin Carstoiu (Romania)	Marioara Moldovan (Romania)	Izabela-Cristina Stancu (Romania)
Yannis Missirlis (Greece)	Ahmed El-Ghannam (U.S.A.)	Cosmin Sinescu (Romania)
Horatiu Moldovan (Romania)	Diana Popescu (Romania)	Olivera Lupescu (Romania)
Alexandru Vlad Ciurea (Romania)	Simeon Agathopoulos (Greece)	Teodor Traistaru (Romania)
Elvira Bratila (Romania)	Marius Niculescu (Romania)	Liliana Verestiuc (Romania)
Jiang Chang (China)	Ika Dewi Ana (Indonesia)	Yasuhiko Tabata (Japan)
Monica Cirstoiu (Romania)	Corrado Piconi (Italy)	Diana Dudea (Romania)
Gultekin Goller (Turkey)	Rui Reis (Portugal)	Dan Grecu (Romania)
Hanadi Marghalani (Saudi Arabia)	Fabrizio Barberis (Italy)	Alina Vladescu (Romania)
Dan Ioan Stoia (Romania)	Yurii Sharkeev (Russia)	Dan Aurel Nica (Romania)
Veronica Mercut (Romania)	Liliana Verestiuc (Romania)	Gilson Khang (Korea)
Razvan Adam (Romania)	Razvan Ene (Romania)	Ion Bogdan Codorean (Romania)

BIOMMEDD CONFERENCES

<u>Year</u>	<u>Conference President</u>	<u>Site</u>
2004	Ecaterina Andronesco	Bucharest, Romania
2006	Ion Poeata	Iasi, Romania
2008	Ecaterina Andronesco	Bucharest, Romania
2010	Horia Iovu	Sinaia, Romania
2012	Iulian Antoniac	Constanta, Romania
2014	Iulian Antoniac	Constanta, Romania
2016	Iulian Antoniac	Constanta, Romania

Executive Council (2016) **Romanian Society for Biomaterials - RSB**

President:	Florin Miculescu
Vicepresidents:	Iulian Antoniac, Izabela Cristina Stancu
Treasurer:	Cosmin Sinescu
Secretary:	Diana Dudea
Members:	Liliana Verestiuc, Simona Cavalu, Cosmin Cotrut, Madalina Albu, Viorica Simon, Teodor Traistaru, Anca Sin, Mircea Istodorescu

Honorary Members:

Prof. James C. Kirkpatrick, Johannes Gutenberg University, Mainz, Germany
Prof. David F. Williams, University of Liverpool, Liverpool, UK
Dr. Lucien Reclaru, PX Group, La Chaux-de-Fonds, Switzerland
Prof. Jacques Lemaitre, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland
Prof. Emil Constantin, University "Dunărea de Jos" Galați, Romania
Prof. Xingdong Zhang, Engineering Research Center in Biomaterials, Sichuan University, Chengdu, P. R. China
Prof. Luigi Ambrosio, Institute of Composite Materials Technology, University of Naples Federico II, Naples, Italy
Prof. Ecaterina Andronesco, University Politehnica of Bucharest, Romania
Prof. Josep A. Planell, Technical University of Catalonia, Barcelona, Spain
Prof. Teodor Traistaru, University of Medicine and Pharmacy "C.Davila" Bucharest, Romania
Prof. Jose Miguel Martin Martinez, University of Alicante, Spain
Prof. Alexandru Vlad Ciurea, University of Medicine and Pharmacy "C.Davila" Bucharest, Romania
Prof. Kunio Ishikawa, Kyushu University, Japan
Prof. Guy Daculsi, University of Nantes, France
Prof. Gultekin Goller, Technical University of Istanbul, Turkey

BIOMMEDD 2016 - Conference Information

Venue

The 7th International Conference “Biomaterials, Tissue Engineering & Medical Devices” BIOMMEDD’2016 will be hosted at the SAVOY HOTEL.

The Savoy Hotel is located between Hotel Selenia, Hotel Lido and Hotel Ambassador, only 30 kilometers from the Mihail Kogalniceanu Airport and only 5.5 kilometers from Constanta.

Address: Mamaia, Constanta County

Tel: +40241 606 900, +40241 606 905 / 908

Registration

Registration will take place in the SAVOY HOTEL (Hotel Lobby).

The registration desk will be open:

Thursday	15th September	18.00-19.00
Friday	16th September	08.30-17.30
Saturday	17th September	08.30-17.30

Poster session

Poster sessions will take place into a special poster hall.

Poster mounting will be available in the morning of each day (from 08.00 to 10.00).

Poster Session 1*	– Friday	16th September	11.30-12.00
Poster Session 2*	– Friday	16th September	16.30-17.00
Poster Session 3*	– Saturday	17th September	11.30-12.00
Poster Session 4*	– Saturday	17th September	17.00-17.30

**include all posters from P1 to P68*

Wi-Fi access

Free Wi-Fi is provided throughout the conference venue (password is not required - follow the BWS networks).

Social Programme

Welcome Cocktail – *Attendance is included in your registration fee.*

Dinner provided just for the participant who stay into the conference hotel.

Thursday 15th September, 20.00, Savoy Restaurant

GALA DINNER – *Attendance is included in your registration fee*

Friday 16th September, 20.30, Savoy Restaurant

Tickets available at registration desk.

Chairman Banquet - Invitation Only & Participant who stay into the conference hotel.

Saturday 17th September, 20.30, Savoy Restaurant

Tickets available at registration desk.

Keynote Speakers Biographies

Professor James C. Kirkpatrick

Mainz University, Germany

Prof. James C. Kirkpatrick (Germany) has a triple doctorate in science and medicine (MD, PhD, DSc) from the Queen's University of Belfast (N. Ireland) and since 1993 is Professor of Pathology and Chairman of the Institute of Pathology at the Johannes Gutenberg University of Mainz, Germany. Previous academic appointments were in pathology at the University of Ulm (1980-1985), Manchester University, UK (1985-1987) and the RWTH Aachen (1987-1993). He is a Fellow of the Royal College of Pathologists (FRCPath), London (since 1997) and an Honorary Professor at the Peking Union Medical College in Beijing and the Sichuan University in Chengdu, China (both since 2004). C. James Kirkpatrick is author/coauthor of 430 publications in peer-reviewed journals, and more than 1200 presentations to scientific meetings worldwide. He is a former President of both the German Society for Biomaterials (2001-2005) and the European Society for Biomaterials (2002-2007), and from the latter he received in 2008 the George Winter Award for his contribution to biomaterials in Europe. In 2010 he was awarded the Chapman Medal from the Institute of Materials, Minerals & Mining, London, UK for "distinguished research in the field of biomedical materials". He is Visiting Professor at the Nanyang Technological University (NTU) in Singapore since 2012, and in 2013 he was made Visiting Professor of Biomaterials & Regenerative Medicine at the Sahlgrenska Academy of the University of Gothenburg, Sweden. In 2014 he received the Career Achievement Award of TERMIS-EU.



Professor Matteo Santin

University of Brighton, U.K.

Prof. Matteo Santin (UK) is Professor of Tissue Regeneration at the School of Pharmacy and Biomolecular Sciences, University of Brighton, UK. Prof. Santin is the leader of the Brighton Centre for Regenerative Medicine and leader of the research team, the Brighton Studies in Tissue-mimicry and Aided Regeneration (BrightSTAR). Prof Santin teaches Biomaterials and Tissue Engineering to undergraduate and MSc students at the School of Pharmacy and Biomolecular Sciences and BSMS. Prof. Santin's career in biomedical research and teaching spans over 20 years and it has been marked by significant achievements that were internationally recognized in 2005 by the European Society for Biomaterials who conferred him the Jean Leary Award. His scientific interests span from natural biomaterials to the development of synthetic biomimetic nano-structured biomaterials able to control tissue regeneration, to the optimisation of in vitro clinically-reflective models for the testing of biomaterials and tissue engineering constructs. He has published papers that unveil for the first time the biochemical and cellular mechanisms of inflammatory response to silk fibroin and stainless steel highlighting the trans-differentiation potential of macrophages and that have demonstrated the tissue regeneration potential of novel soybean-based biomaterials and biomimetic dendrons. Prof. Santin has published over 50 papers in peer-reviewed international journals and over 200 abstracts at international conferences. He has filed 8 patent applications and founded two start-up companies, Tissue Click Ltd and Brighton Wound Care Ltd. Prof. Santin is the President of the European Society for Biomaterials, Editor-in-Chief of the Journal of Materials Science: Materials in Medicine, and member of several scientific boards of research organizations.



Professor Thomas J. Webster

Northeastern University, Boston, USA

Prof. Thomas J. Webster (USA) (H index 61 according to Google Scholar) degrees are in chemical engineering from the University of Pittsburgh (B.S., 1995) and in biomedical engineering from Rensselaer Polytechnic Institute (M.S., 1997; Ph.D., 2000). He is currently the Department Chair and Professor of Chemical Engineering at Northeastern University in Boston. His research explores the use of nanotechnology in numerous applications. Specifically, his research addresses the design, synthesis, and evaluation of nanophase materials (that is, materials with fundamental length scales less than 100 nm) as more effective biomedical devices. He has completed extensive studies on the use of nanophase materials to



regenerate tissues and has graduated/supervised over 109 visiting faculty, clinical fellows, post-doctoral students, and thesis completing B.S., M.S., and Ph.D. students. To date, his lab group has generated over 9 textbooks, 48 book chapters, 306 invited presentations, at least 403 peer-reviewed literature articles, at least 567 conference presentations, and 32 provisional or full patents. Some of these patents led to the formation of 9 companies. His research on nanomedicine has received attention in recent media publications including MSNBC (October 10, 2005), NBC Nightly News (May 14, 2007), PBS DragonFly TV (covered across the US during the winter, 2008), ABC Nightly News via the Ivanhoe Medical Breakthrough Segment (covered across the US during the winters of 2008 and separate research segments in 2010 and 2011), Fox News (Dec. 18, 2013), and the Weather Channel (March 18, 2014). His work has been on display at the London and Boston Science Museums. He is the founding editor-in-chief of the International Journal of Nanomedicine (the first international journal in nanomedicine which in five years has achieved an impact factor of 4.97), serves on the editorial board of 15 additional journals, has helped to organize 22 conferences emphasizing nanotechnology in medicine, and has organized over 53 symposia at numerous conferences emphasizing biological interactions with nanomaterials. He also recently chaired the 2011 Annual Biomedical Engineering Society (BMES) Conference and has organized numerous symposia for AIChE, IEEE, MRS and ASME Annual Meetings. He has received numerous honors including, but not limited to: 2002, Biomedical Engineering Society Rita Schaffer Young Investigator Award; 2006, Fellow, American Association of Nanomedicine; 2010, Distinguished Lecturer in Nanomedicine, University of South Florida; 2011, Outstanding Leadership Award for the Biomedical Engineering Society (BMES); 2011, Fellow, American Institute for Medical and Biological Engineering (AIMBE, representing the top 2% of all medical and biological engineers); 2013, Fellow, Biomedical Engineering Society; 2014, Fellow, Ernst Strugmann Foundation; and 2014, President-elect, US Society for Biomaterials.

Professor Kunio Ishikawa

Kyushu University, Japan

Prof. Kunio Ishikawa (Japan). Professor at Department of Biomaterials, Kyushu University, Japan



Fields of Interest: Biomaterials for the Reconstruction and Regeneration of Bone Defect, Apatite, Calcium Phosphate, Self-setting Cement, Implant Materials. Education: Ph. D., Osaka University of Tokyo, 1990

Membership of Academic Societies: International Association for Dental Research, International Society for Ceramics in Medicine, Nano Biomedical Society, Japanese Society of Ceramics, Japanese Society for Dental Materials and Devices

Awards & Honors: Award for Encouragement of Research, Japanese Society for Biomaterials, Japan (1999); Best Presentation Award, Asian BioCeramics (2003); Best Presentation Award, Japanese Society for Dental Materials and Devices (2005); IUMRS Encouragement Award, International Union of Materials Research Society (2008); Best Presentation Award, AUN/SEED-Net (2009).

Professor Yasuhiko Tabata

Kyoto University, Japan



Dr. Yasuhiko Tabata is the Professor and Chairman of the Department of Biomaterials at the Institute for Frontier Medical Sciences, Kyoto University and a Professor of the Graduate School of Medicine, Osaka University, and a Professor of the School of Life Dentistry, Nippon Dental College, Japan and serves as visiting professors at Graduate School of Medicine, Dentistry, Pharmaceutical Sciences, and Engineering of 14 different universities. He received his B.D. in Polymer Chemistry (1981), Ph.D. (1988) in Polymer Science, D.Med.Sci. (2002) in Regenerative Medicine, and D.Pharm. (2003) in Pharmaceutical Sciences all at Kyoto University. He was a Visiting Scientist at the MIT (Professor Robert Langer) (1991-92). He has published 1300 scientific papers including 120 book chapters and review articles, and

has 140 patents. He received the Young Investigator Award (1990), the Scientific Award from the Japanese Society for Biomaterials (2002), the Scientific Award from the Japan Society of Drug Delivery System (2011), Chandra P. Sharma Award of the International Society of Biomaterials & Artificial Organs (2011), the Scientific Award from the Japanese Society for Regenerative Medicine (2014), and several awards. He is an associate member of the Science Council of Japan, Cabinet Office and the New York Academy of Science and a fellow of American Institute for Medical and Biological Engineering (AIMBE) and American Institute for Medical and Biological Engineering. Also, he was elected the Founding Fellow for Tissue Engineering and Regenerative Medicine (FTERM).

Dr. Tabata is the Board Governor of the Tissue Engineering and Regenerative Medicine Society International, the Japanese Regenerative Medicine Society, the Japanese Society for Biomaterials, the Society for Hard Tissue Regenerative Medicine, the Japan Society of Drug Delivery System, and the Japanese Society of Inflammation and Regeneration or the Councilor of the Japanese Society of Wound Healing, the Japanese Artificial Organ Society, and the Editorial Board of Tissue Engineering, Journal of Tissue Engineering and Regenerative Medicine, Bioconjugate Chemistry, Journal of Biomaterial Sciences, Polymer Edition, and Journal of Biomedical Nanotechnology.

Dr. Tabata is a member of Tissue Engineering and Regenerative Medicine International Society and American Biomedical Engineering Society. He was the one of Founder Members of Asian Biomaterial Federation (ABF). He was a council member of Tissue Engineering Society International for 2001-2003 and 2012-present.

His research is very interdisciplinary in nature and brings together the fields of polymer chemistry, pharmaceutical science, biology, and basic and clinical medicines. His research focuses on the design and preparation of biodegradable or non- biodegradable biomaterials for their biological, medical, and pharmaceutical applications, while the keywords are biomaterials, drug delivery system (DDS), tissue engineering, regenerative medicine, stem cell technology, and medical diagnostics.

Gilson Khang

Chonbuk National University (CBNU), Korea



Dr. Gilson Khang was born in 1960 in South Korea, where he obtained his degrees at the Inha Univ (B.S. and M.S.). In 1987, he joined the Dr Hai Bang Lee's Biomaterials Lab at KRICT (Deajeon, Korea). He was studying for Ph.D. degree at the Department of Biomedical Engineering, The Univ of Iowa (Iowa City, IA, USA) from 1991~1995 under the guidance of Prof Joon B. Park.

His academic career started at the Department of PolymerNano Science and Technology at Chonbuk National University (CBNU) and then tenured by Full Professor in 2009. From 2006 to 2011, he was the PI of BK-21 (Brain Korea 21 Project) and WCU (World Class University, 3MUD/yr for 5 years) Program at CBNU supported by KMEST. He was Chair Professor in the Department of BIN Fusion Technology of WCU program of CBNU.

Dr. Khang was the one of Founder Members of Asian Tissue Engineering Society (ATES) and one of Founder Members of TERMIS-AP Chapter. Prof. Khang was General Secretary and Treasurer for 2005~2009 of TERMIS-AP Chapter and now served as a council member for TERMIS-AP. Recently, he serves TERMIS-AP Continental Chair as 2015~2017, TERMIS Global President-Elect (2016~2108) & executive board member for TERMIS Global.

He has co-authored or edited ~30 books. He has published ~600 original research papers, and ~200 editorials, reviews or chapters in books. His papers were cited 5,520 times. (h-index >38) His major scientific contribution has been to appreciate and analyze the importance of natural/synthetic hybrid scaffold to reduce the host inflammation reaction as well as the commercialization for tissue-engineered products as cartilage, bone, retinal pigment epithelium, cornea endothelium, etc.

His international collaboration network is really worldwide and tight over 7 countries and 15 Universities. He is engaging the Visiting Professor of Tsinghua Univ, Peking Univ, Zhejiang Univ, China and Wake Forest Institute of Regenerative Medicine, USA.

Professor Yannis Missirlis

University of Patras, Greece



Prof. Yannis Missirlis (Greece) was born in Samos-Greece (1946), graduated as Chemical Engineer from the NTUA (Athens-1969), received a M.Sc. (Syracuse-USA, 1971) and his Ph.D. from Rice University (Houston-1973) in Biomedical Engineering. Prof. Missirlis served as an Assistant Professor and Associate Professor at McMaster University (Canada, 1974-1980) before joining the University of Patras in 1981, as a full Professor, directing since then the Laboratory of Biomechanics and Biomedical Engineering.

Prof. Missirlis has served as Vice-Rector of the University (1986-1988), as a member of the European, and of the World Council of Biomechanics. He has coauthored a book on Biomaterials (2011), coedited 2 books on Protein Adsorption, on Platelet interaction with Biomaterials, has published 80 peer-reviewed papers in international journals, and currently is active in the area of cell-material interactions, tissue engineering, and biomechanics from nano-to macro level.

Ika Dewi Ana

Director, Center for Academic Innovation and Policy
Universitas Gadjah Mada, Indonesia



Dr. Ika Dewi Ana is a dentist by training, graduated from Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia in 1993. She continued her study in Clinical Epidemiology at The Graduate School of Medicine, UGM and got her PhD in Dental Sciences from Kyushu University, Japan, in 2004. She is an associate professor at The Faculty of Dentistry, UGM. Her area of interest is bioceramics, tissue engineering, and regenerative medical therapy. The important path in her scientific career is her study under the supervision of Professor Kunio Ishikawa (Kyushu University) at that time she was awarded the most outstanding research presentation from Asian BioCeramics Society in 2003. She then got UGM Award for the most innovative research in 2004 and 2011. She continued her scientific works as a research fellow of JSPS (Japan Society for The Promotion of Science) in 2005-2007, a postdoctoral research fellow of KNAW (The Royal Netherlands Academy of Arts and Sciences) to run postdoctoral research collaboration by joining Professor John A. Jansen's research group with Radboud Universiteit Nijmegen Medical Center, The Netherlands in 2007-2009, and a visiting researcher at the Institute for Frontier Medical Sciences, Kyoto University, Japan by joining Professor Yasuhiko Tabata's group. Two of her research works have been already translated into the market in Indonesia by a university holding company and state-owned pharmaceutical company in Indonesia (CHA Bone Graft). In December 16, 2014, she received Outstanding Intellectual Property Award from The Ministry of Research, Technology and Higher Education of The Republic of Indonesia. She is also The 27th President of The International Society for Ceramics in Medicine (ISCM). She was chosen by DAAD (German Academic Exchange Services), HRK (German Rector Conference), and AvH (Alexander von Humboldt) to represent South East Asian scholars as a fellow for International Deans Course in 2008 and a fellow for ASEAN Quality Assurance System in 2012. She was also involved in the module development and dissemination programs for strengthening University-Industry Partnership in Asia-Pacific region, under the management of UNESCO. She managed domestic, international, alumni and industrial collaborations in her position as Director of Partnership, Alumni and Global Initiatives of UGM (2012-2014). Since 2015, she is the Director of Center for Academic Innovation and Policy in UGM, and responsible in developing academic innovation and academic policy in the university. She is also mandatory assigned by the university to be the commissioner and member of technology valuation board of UGM Start Up Company for Drug and Medical Devices, which in 2014 translated 8 medical products and medical technologies into the market in Indonesia.

Professor Maria Pau Ginebra

Technical University of Catalonia, Barcelona, Spain



Maria-Pau Ginebra leads the Biomaterials, Biomechanics and Tissue Engineering Group at the Technical University of Catalonia in Barcelona, Spain. Her research interests include the design and development of new biomaterials for bone regeneration, bone tissue engineering and drug delivery. Her research team has made significant contributions in the processing and characterisation of a new generation of low-temperature calcium phosphates which mimic bone extracellular matrix, including calcium phosphate cements and foams, incorporating synthetic or natural polymers, and/or biologically active molecules. She is involved also in new biofabrication strategies, including injectable scaffolds for bone tissue engineering, bioinspired substrates and 3D printing of regenerative medical implants. She has been involved in numerous national and European research projects and participated in the organisation of scientific events in the area of biomaterials and bioceramics. She is author of more than 150 articles in peer-reviewed International journals as well as of 9 patents. In 2013 she founded the spin-off company Subtilis Biomaterials. She has received numerous awards, amongst them the Racquel LeGeros Award, for her contribution to calcium phosphate research, in 2013.

Ahmed El-Ghannam

University of North Carolina at Charlotte, USA



Professional Preparation

University of Cairo, Cairo, Egypt Chemistry B.Sc. 1982
University of Ain Shams, Cairo, Egypt Chemistry M.Sc. 1988
University of Pennsylvania, Philadelphia, USA Bioengineering M.SE. 1993
University of Pennsylvania, Philadelphia, USA Bioengineering Ph.D. 1995

Appointments

Associate Professor Dept. Mechanical Engineering & Eng. Science UNC Charlotte 2006-Present Assistant Professor Center for Biomedical Engineering U Kentucky 2002-2006
Visiting Scholar Department of Bioengineering U PENN 2000-2002
Assistant Professor National Research Center Cairo Egypt 1997-2000
Research Scientist Desmos Inc., San Diego, CA 1995-1997

Selected Publications

1. Aniket, Robert Reid, Benika Hall, Ian Marriott and Ahmed El-Ghannam, "The synergistic relationship between surface roughness and chemistry of bioactive ceramic coating on early osteoblast responses", J Biomed Mater Res A;103(6):1961-73 (2015).
2. Travis K. Mann-Gow, Jerry Blaivas, Benjamin J. King, Ahmed El-Ghannam, Christine Knabe, Michael K. Lam, Cameron S. Sikavi, Ole M. Dall, Mark K. Plante, Jan Krhut, Peter Zvara, "A Rat Animal Model for Preclinical Testing of Urethral Bulking Agents", Int J Urol.;22(4):416-20 (2015).
3. Rania Abd ElAziz, Naguiba Mahmoud, Samia Soliman and Samir R. Nouh, Larry Cunningham, Ahmed El-Ghannam, Acceleration of Alveolar Ridge Augmentation Using a Low Dose of rhBMP2 Loaded on a Resorbable Bioactive Ceramic, Journal of Oral and Maxillofacial Surgery, 73(12):2257-72 (2015).

Synergistic Activities

1. President of the International Society for Ceramics in Medicine (2015-2016)
2. Chair, World Biomaterials Congress, New Frontier Sessions: Bioceramics inducing osteogenesis, angiogenesis and immunomodulation, Ontario, Canada (2016) .
3. Associate Editor of the Journal of Biomedical Materials Research Part A. The official Journal of the American Society of Biomaterials, Japanese Society for Biomaterials, Korean Society for Biomaterial and the Australian Society for Biomaterials.(2007-present)
4. Reviewer for the NIH "Biomaterials and Bio interfaces" study section (2014)
5. Program Committee member, Society for Biomaterials (2013-present)
6. Education Committee member, Society for Biomaterials (2014-2015)
7. Invited Speaker, The American Society for Testing and Materials (ASTM) Workshop on Bone Graft, Spring ASTM meeting in St. Louis, May 18-23, "Calcium Phosphate nano-Composite (SCPC): Key to Successful Bone Tissue Engineering, (2010).
8. Committee member, Summer Research Experience for Undergraduate SREU program at UNC Charlotte (2010-present).

PROGRAMME AT A GLANCE

September 15th

18.00-19.00 *Registration Open at the Savoy Hotel*
20.00 *Welcome Cocktail*

September 16th

08.30-17.30 *Registration Open at the Savoy Hotel*
08.45-09.00 *Opening Ceremony (Hall 0)*
09.00-11.30 *Keynote Plenary Speakers (Hall 0)*
11.30-12.00 *Poster Session & Coffee Break*
12.00-13.20 *Invited Plenary Speakers (Hall 0)*
13.30-15.00 *Lunch*
15.00-16.30 *Scientific Sessions A1 (Hall 1)-B1 (Hall 2)*
16.30-17.00 *Poster Session & Coffee Break*
17.00-17.30 *Sponsor Presentation*
17.30-19.00 *Scientific Sessions A2 (Hall 1)-B2 (Hall 2)*
19.30-20.30 *General Assembly of SRB*
20.30 *Gala Dinner*

September 17th

08.30-17.30 *Registration Open at the Savoy Hotel*
09.00-11.30 *Keynote Plenary Speakers (Hall 0)*
11.30-12.00 *Poster Session & Coffee Break*
12.00-13.20 *Invited Plenary Speakers (Hall 0)*
13.30-15.00 *Lunch*
15.00-17.00 *Scientific Sessions A3 (Hall 1)- B3 (Hall 2)*
17.00-17.30 *Poster Session & Coffee Break*
17.30-19.30 *Scientific Sessions A4 (Hall 1)- B4 (Hall 2)*
19.30-20.30 *Closing Ceremony & Awards*
20.30 *Chairman Banquet*

September 18th

08.00-09.00
Seminar „ NMP-REG Delivering Nanotechnologies, advanced Materials and Production to REGional manufacturing”
09.00-11.45
Workshop „Education on Bioengineering and Medical Engineering”

PROGRAMME BIOMMEDD 2016

September 16th

08.30-17.30 Registration Open at the Savoy Hotel

09.00-11.30 Keynote Plenary Speakers I (Hall 0)

Chairs:

Matteo Santin, Iulian Antoniac

09.00 **James Kirkpatrick**, Johannes Gutenberg University of Mainz, Germany

Relevance of *in vitro* Models for Regenerative Medicine

09.30 **Yasuhiko Tabata**, Kyoto University, Japan

Biomaterials Technology Indispensable for Regenerative Medicine

10.00 **Matteo Santin**, University of Brighton, UK

Magnetic Dendrons as Carrier for Stem Cells and Growth Factors in Tissue Engineering Constructs

10.30 **Ahmed El-Ghannam**, University of North Carolina, Charlotte, USA

Advanced Bioceramic for Regenerative Medicine and Disease Treatment

11.00 **Maria-Pau Ginebra**, Technical University of Catalonia, Barcelona, Spain

Processing, Properties and Benefits of Biomimetic Nanostructured Calcium Phosphate

11.30-12.00 Poster Session & Coffee Break

12.00-13.20 Invited Plenary Speakers I (Hall 0)

Chairs:

Yannis F.Missirlis, Izabela-Cristina Stancu

12.00 **Iulian Antoniac**, University Politehnica of Bucharest, Romania

Biodegradable Metals for Medical Devices

12.20 **Yurii Sharkeev**, Institute of Strength Physics and Materials Science of SB RAS, Tomsk, Russia

Selective Laser 3D-Printing of Low Elastic Modules Ti-Nb Alloy for Medical Applications

12.40 **Liliana Vereștiuc**, “Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania

Biodegradable Polymeric Scaffolds for Tissue Regeneration: Progress and Challenges

13.00 **Simeon Agathopoulos**, University of Ioannina, Greece

Novel Biodegradable Alginate based Scaffolds for Application in Myocardial Tissue Engineering

13.30-15.00 Lunch

15.00-16.30 Scientific Sessions

Scientific Session

A1. Metallic Biomaterials, Bioceramics & Coatings (Hall 1)

Chairs:

Yurii Sharkeev, Corneliu Munteanu, Mihai Brânzei

Invited Lecture

15.00 **Mariana Braic**, National Institute for Optoelectronics, Magurele, Bucharest, Romania

Biomedical applications of TiZr-based metallic thin films

Invited Lecture

15.20 **Brândușa Ghiban**, University Politehnica of Bucharest, Romania

Failure Modes of the Biometallic Materials. Case studies

Oral Presentations

15.40 Biofunctionalization of porous Ti6Al4V with HAp coatings obtained by electrochemical assisted deposition

Diana Vrânceanu, A.V. Koptioug, A. Vladescu, M. Braic, R. Surmenev, M.A. Surmeneva, A. Berbecaru, C.M. Cotrut

15.50 Investigation of the Ag doped hydroxyapatite as antibacterial coatings

Mihaela Dinu, M.Badea, M.Braic, A.Vladescu, M.Moga, V.Braic, E. Posna, A.Kiss

16.00 The effect of dopant type and concentration on structure, morphology and thermal behavior of polycrystalline zirconia

Voinea Elena-Adriana, **Nicoleta Cioatera**, Simionescu Andreea, Spinu Cezar-Ionut

16.10 New approach for the chemical conformity assessment of a AISI 316L bar

C.E. Sfat, M.Brânzei, **Ramona Nicoleta Turcu**, I.Pencea, A.A. Matei, M. Cojocaru

16.20 *Debates*

Scientific Session

B1. Biomaterials Application in Dentistry (Hall 2)

Chairs:

Hanadi Marghalani, Cosmin Sinescu, Horia Manolea

Invited Lecture

15.00 **Alexandru Andrei Iliescu**, University of Medicine and Pharmacy of Craiova, Romania

Bioceramics and endodontics: present and expectations in clinical use

Invited Lecture

15.20 **Horia Manolea**, University of Medicine and Pharmacy of Craiova, Romania

An evaluation of a collagen-based material osseointegration

Invited Lecture

15.40 **Meda-Lavinia Negruțiu**, Victor Babes University of Medicine and Pharmacy Timisoara, Romania

Endodontic treatments assessed by various imagistic methods

Oral Presentations

16.00 The assessment of acrylic infantil overdenture during the treatment of anodontia at children: a case study

Anca Porumb, A. Almasi, S. Cavalu, C. Ratiu

16.10 A comparison between complex and simple ceramic build-up techniques in restorations of the anterior teeth using X-Rite ShadeVision System and Vita EasyShade Advance 4.0

Radu Rîcă, Bogdan Culic, Horia Manolea, Ana-Maria Rîcă, Vlad Rotaru, Mirela Opri

16.20 Three-dimensional accuracy evaluation of two additive manufacturing processes in the production of dental models

Alexandru-Victor Burde, Gasparik Cristina, Baci Sorana, Manole Marius, Ducea Diana, Câmpian Radu-Septimiu

16.30-17.00 Poster Session & Coffee Break

17.00-17.30 Sponsor Presentations

17.30-19.00 Scientific Sessions

Scientific Session

A2. Biopolymers & Scaffolds (Hall 1)

Chairs:

Fabrizio Barberis, Maria-Pau Ginebra, Izabela-Cristina Stancu

Invited Lecture

17.30 **Rodica Mariana Ion**, The National Institute for Research & Development in Chemistry and Petrochemistry, Bucharest, Romania

Regenerative medicine in dermatology- Biomaterials, medical devices and drugs release

Invited Lecture

17.50 **Ştefan Ioan Voicu**, University Politehnica of Bucharest

Bioactive compounds covalent immobilization onto cellulose acetate membranes for biomedical applications

Oral Presentations

18.10 Bioactivation of inert pHEMA matrices with cellulose fibres in order to induce mineralization

Andrada Serafim, M.O.Constantinescu, F.I.Tardea, E.Vasile, I.C.Stancu

18.20 Biogenous mineral used to develop bio-inspired composite hydrogels for bone regeneration

Diana-Maria Draguşin, Filis Curti, Madalina Jianu, Sergiu Cecoltan, Eugeniu Vasile, Izabela-Cristina Stancu

18.30 Magnetic nanoparticles inclusion into scaffolds based on calcium phosphates and biopolymers for bone regeneration

Florina Ivan, V. Balan, M. Butnaru, M.I. Popa, L.Verestiuc

18.40 Novel arginine-bioconjugated hydrogels based on chitosan and poly(acrylic acid-co-methacrylic acid) as potential wound dressings

Ioana Tănasă, A.G. Rusu, V. Bălan, M. Butnaru, L.Verestiuc

18.50 *Debates*

Scientific Session

B2 Bone Treatment & Regeneration (Hall 2)

Chairs:

Gheorghe Popescu, Ion Bogdan Codorean, Marius Niculescu

Invited Lecture

17.30 **Olivera Lupescu**, “Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania

Bone graft substitutes in post-traumatic bone defects

Invited Lecture

17.50 **Marius Niculescu**, Titu Maiorescu University, Bucharest, Romania

New trends in surgical wound closure in elective orthopaedic surgery

Invited Lecture

18.10 **Daniela Ivanov**, “Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania

Biodegradable bone plates – fixation or future direction?

Oral Presentations

18.30 An innovative solution in cartilage repair surgery in both degenerative and post-traumatic joint lesions

Jenel Patrascu, D.Cojocaru, **Adrian Lazarescu, Mihai Sandesc**, S.Florescu, B.Andor

18.40 Gait Analysis in evaluating functional outcome after implant removal following ankle fractures

Olivera Lupescu, Mihail Nagea, Cristina Patru, Gheorghe Ion Popescu, Taina Elena Avramescu

18.50 Correlation between Post-Operative Functional Anatomy and Gait Analysis in Total Cementless Hip Arthroplasty

Mihail Nagea, Olivera Lupescu, Cristina Patru, Alexandru Dimitriu, Taina Elena Avramescu, Gheorghe Popescu

19.30 General Assembly of SRB

20.30 **Gala Dinner**

September 17th

08.30-17.30

Registration Open at the Savoy Hotel

09.00-11.30 Keynote Plenary Speakers (Hall 0)

Chairs:

James Kirkpatrick, Florin Miculescu

09.00 **Thomas Webster**, Northeastern University, Boston, USA

Novel Nano- and Pico-Technology Medical Device Coatings: The Future Is Here

09.30 **Kunio Ishikawa**, Kyushu University, Fukuoka, Japan

Porous Carbonate Apatite as Artificial Bone Replacements

10.00 **Gilson Khang**, Chonbuk National University, Jeonju, Korea

Scaffold Design for Regenerative Medicine: Biocompatibility Issues

10.30 **Yannis F. Missirlis**, University of Patras, Greece

All the Appropriate Signals are Necessary for Engineering Proper Tissues: a Prerequisite for Successful Tissue Engineering

11.00 **Ika Dewi Ana**, Universitas Gadjah Mada, Yogyakarta, Indonesia

Loading Percentage of VEGF in Different Membranes Containing Ceramics

11.30-12.00 Poster Session & Coffee Break

12.00-13.20 Invited Plenary Speakers (Hall 1)

Chairs:

Kunio Ishikawa, Liliana Vereștiuc

12.00 **Fabrizio Barberis**, University of Genoa, Italy

Investigating Mechanical Properties of Animal Menisci

12.20 **Florin Miculescu**, University Politehnica of Bucharest, Romania

Thermal Processing Routes for Tunable Calcium Phosphates Derived from Natural Origin Materials

12.40 **Horațiu Moldovan**, SANADOR Hospital. Dep. Cardiovascular Surgery, Bucharest, Romania

Synthetic and Natural Materials for Surgery of the Postinfarction Ventricular Septal Defect

13.00 **Izabela-Cristina Stancu**, University Politehnica of Bucharest, Romania

Biointeractions of Nanodiamond Particles Loaded in Electrospun Fish Gelatin Fibrous Scaffolds

13.30-15.00 **Lunch**

15.00-17.00 Scientific Sessions

Scientific Session

A3. Dental Biomaterials (Hall 1)

Chairs:

Meda-Lavinia Negruțiu, Grigore Ion Lăzărescu, Manole Marius

Invited Lecture

15.00 **Cosmin Sinescu**, Victor Babes University of Medicine and Pharmacy Timisoara, Romania

Complex Prosthetic Constructs Evaluated by NonInvasive Methods

Invited Lecture

15.20 **Grigore Ion Lăzărescu**, “Titu Maiorescu” University, Bucharest, Romania

Intra Oral Welding of Titanium Implants - Industry meets biology

Invited Lecture

15.40 **Teodor Trăistaru**, “Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania

Prosthetic Dental Therapy for Certain Types of Obstructive Sleep Apnea Syndrome in Adults

Oral Presentations

16.00 Importance of bleaching procedures for dental aesthetics

Emanuela Lidia Craciunescu, Daniela Maria Pop, Meda Lavinia Negrutiu, Cosmin Sinescu, Virgil Florin Duma, Adrian Gh.Podoleanu

16.10 Electrospun nanocomposite scaffolds for tissue engineering applications

Gabriel Furtoș, Rivero G., Sorin Rapuntean, Abraham G.A.

16.20 *Debates.*

Scientific Session

B3. Biomaterials Application in Neurosurgery (Hall 2)

Chairs:

Alexandru Vlad Ciurea, Dan Aurel Nica, Vicențiu Săceleanu

Invited Lecture

15.00 **Alexandru Vlad Ciurea**, “Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania

State of the art biomaterials in neurosurgery

Invited Lecture

15.20 **Dan Aurel Nica**, Clinical Emergency Hospital Sf. Pantelimon, Bucharest, Romania

Neurosurgical implants in cervical disk herniations - current standards and perspectives

Invited Lecture

15.40 **Vicențiu Săceleanu**, “Lucian Blaga” University Sibiu, Romania

Associated titanium mesh and native bone cranioplasty in posttraumatic reconstruction of frontal skull defects

Oral Presentations

16.00 The real value of haemostatic biomaterials in intracranial neurosurgery

Aurel Mohan, Horatiu Moisa, Alexandru Vlad Ciurea

16.10 Titanium mesh implants – alternative for cranial bone defects

Mihai Daniel Teleanu, A. Cristescu, A.V. Ciurea

16.20 Absorbable & nonabsorbable suture materials in neurosurgery- advantages and disadvantages

Dan Benția, Horatiu Moisa, Aurel Mohan, Alexandru Vlad Ciurea

16.30 Biomaterials in obturation of the intracranial aneurysms (exo&endo vascular approach) - current perspectives

Horatiu Moisa, Aurel Mohan, I. Luca-Husti, Alexandru Vlad Ciurea

16.40 *Debates*

17.00-17.30 Poster Session & Coffee Break

17.30-19.30 Scientific Sessions

Scientific Session

A4. Orthopedic Biomaterials & Medical Devices (Hall 1)

Chairs:

Rodica Marinescu, Olivera Lupescu, Răzvan Ene

Invited Lecture

17.30 **Rodica Marinescu**, “Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania

METALLOSIS - a challenge for the orthopedic surgeon

Invited Lecture

17.50 **Dan Ioan Stoia**, Politehnica University Timisoara, Romania

Mechanical aspects of self-alignment mechanism in hip bipolar hemiarthroplasty

Invited Lecture

18.10 **Ion Bogdan Codorean**, “Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania

Are Bioabsorbable Interference Screws Safe?

Invited Lecture

18.30 **Răzvan Ene**, “Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania

Early results after arthroscopic stabilization of acute AC separation using metallic buttons suspension system

Oral Presentations

18.50 Comparative evaluation of in vitro and in vivo biodegradation of the metallic alloys from Mg-Ca system

Răzvan Adam, Iulian Antoniac, Adrian Barbilian, Horia Orban

19.00 Simulation of the upper limb recovery exercises during physical therapy rehabilitation

Lucian Rusu, **Dan Ioan Stoia**, Cosmina Vigariu

19.10 One step reconstruction of articular cartilage using collagen scaffolds and autologous cells - our experience

Horea Benea, Aurel Muste, Cristian Berce, Olga Soritau, Roxana-Diana Pasca, Gheorghe Tomoaia

Session

B4. Biomaterials Application in Surgery & Bioengineering (Hall 2)

Chairs:

Elvira Brătilă, Horațiu Moldovan, Călin Corciovă

Invited Lecture

17.30 **Elvira Brătilă**, “Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania

Biomechanical Properties of Biologic Grafts used in Pelvic Reconstructive Surgery

17.50 **Monica Cîrstoiu**, “Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania

Levonorgestrel Intrauterine Systems – Past, Present and Future

18.10 **Călin Corciovă**, University of Medicine and Pharmacy Gr.T.Popa Iasi, Romania

Medical Devices Reliability: Analysis and Methods to Improvement Strategies

Oral Presentations

18.30 Algisyl-LVR™ ventriculoplasty - a valuable surgical approach for dilated cardiomyopathy treatment

Cosmin Buzilă, Silviu Dumitrescu, Ioan Crisan, Gabriel Cristian, Vasile Murgu, Ionel Droc

18.40 Hemoglobin versus hemerythrin - based blood substitutes: data from top-up and hemorrhagic shock models

Florina Scurtu, Anca Farcaș, Vlad Toma, Bogdan Sevestre, Ioana Roman, **Radu Silaghi-Dumitrescu**

18.50 Characteristics of synthetic meshes used in the treatment of pelvic organ prolapse –mechanical behavior and design of pore size as important factors correlated with biological response

Petre Brătilă, Elvira Brătilă, Diana Comandașu, Monica Cîrstoiu, Claudia Mehedințu

19.00 Embolic materials used in uterine fibroid embolization

Diana Voicu, Octavian Munteanu, Roxana Bohaltea, Elvira Bratila, Costin Berceanu, Bogdan Dorobat, Iulian Antoniac, Monica Cîrstoiu

19.10 Analysis of Thermographic Images in Some Cases of Reconstruction Surgery that Require Coverage with Different Osteosynthesis Materials

Luca Cătălina, Susanu Sidonia, Ciorap Radu

19.20 Smart Wearable Device for Monitoring Physiological Parameters

Ciorap Radu, **Luca Cătălina**, Andrițoi Doru, Corciovă Călin

19.30 Closing Ceremony & Awards

20.30 **Chairman Banquet**

September 18th

08.00-09.00

Seminar

„ NMP-REG *Delivering Nanotechnologies, advanced Materials and Production to REGional manufacturing*”

09.00-11.45

Workshop

„*Education on Bioengineering and Medical Engineering*”

Poster Presentations Programme

Poster No.	Presenting Author	POSTER TITLE
1.	Agathopoulos Simeon	Novel glass and glass-ceramic compositions Simeon Agathopoulos, Dilshat Tulyaganov, Michael Karakassides
2.	Florin Baci	Finite element analysis of mechanical behavior of restored maxillary and mandibular incisor Florin Baci, Aurelia Rusu-Casandra, Claudia Bratosin
3.	Bolos Adrian	Experimental evaluation of fracture pattern in monolithic hot-pressed ceramic crowns Liliana Porojan, Lucian Rusu, Sorin Porojan, Adrian Bolos, Cristina Savencu
4.	Bolos Adrian	Assesment of base metal dental alloys processed by alternative procedures Sorin Porojan, Liliana Porojan, Mihaela Birdeanu, Adrian Bolos, Cristina Savencu
5.	Bratu Cristina	Surface characteristics of the aesthetic NiTi coil-springs after intraoral use Dana Cristina Bratu, Silvia-Izabella Pop, Violeta Merie, George Popa
6.	Bratu Cristina	Biomedical devices used in the non-surgical treatment of skeletal class III malocclusion in adult patients Dana Cristina Bratu Silvia-Izabella Pop, Mariana Pacurar, George Popa
7.	Buzea Corina-Mona	Corrosion resistance and structure investigation of materials used in tongue piercing Corina-Mona Buzea, Ioana Csaki, Mihai Cosmin Cotrut
8.	Corobea Mihai	Clay particles influence on bio-based antibacterial solutions M.D.Iorga, D.Florea, Z.Vuluga, R.Birjega, R.Zavoianu, A.Manescu, D.A.Kaya, M.C.Corobea
9.	Cotrut Cosmin	Cr silicon-nitrides and silicon-oxynitrides in mono and multi-layered structures with beneficial effect in improving the service life of prosthetic frameworks C.M.Cotrut, D.Mihaela, F.Baci, D.M.Vranceanu, M.Tarcolea, A.I.Gherghilescu, A.Vladescu
10.	Cristescu Ioan	Functional results of hand fractures after surgical treatment using different types of implants Ioan Cristescu, Daniel Vilcioiu, Florin Safta, Fabian Klein, Mircea Istodorescu
11.	Cristescu Ioan	Method of increasing the resistance of locking plates used in treatment of comminuted fractures Ioan Cristescu, Daniel Vilcioiu, Florin Safta, Fabian Klein, Mircea Istodorescu
12.	Diaconu Alina	Molecular design of hyaluronic acid gel networks for drug delivery applications A.Diaconu, L.E.Nita, N.Tudorachi, L.Tartau, M.Bercea
13.	Diaconu Alina	Experimental research on magnetic composites and their application in vascular stents development A.Diaconu, L.E.Nita, L.Tartau, I.Neamtu, N.Tudorachi
14.	Ene Razvan	The advantages of tensioning tight rope system in Hallux Valgus deformities

		Razvan Ene, Zsombor Panti, Mihai Nica, Marian Pleniceanu, Mihnea Popa, Iulian Antoniac, Monica Cirstoiu, Catalin Cirstoiu
15.	Eugenia Vasile	Novel magnetic silk biomaterials for tissue engineering applications Eugenia Vasile, Catalin Zaharia, Bianca Galateanu, Ariana Hudita, Paul Stanescu, Ionut-Cristian Radu
16.	Filip Miuta	Analytical approaches for characterization of teeth whitening gels based on natural extracts Miuta Filip, Laura Silaghi Dumitrescu, Doina Prodan, Sarosi Codruta, Marioara Moldovan
17.	Gabor Alin	Comparison of scaffolds made by 3D printing based on two different types of scan A.Gabor, C.Zaharia, A.N.Kozma, V.Tudericu, V.-F.Duma, M.Rominu, M.L.Negrutiu, C.Sinescu
18.	Galuscan Atena	The development of plant-extracts in dentistry Atena Galuscan, Anamaria Matichescu, Octavia Bolean, Daniela Jumanca, Georgeta Pop
19.	Gherman Timea	Potential use of some essential oils for antibacterial properties in gelatin based hydrogels Gherman Timea, Popescu Violeta, Rahella Karpa, Molea Andreia, Trifoi Ancuta Roxana, Georgiana Luminita Gavrila
20.	Ghitman Jana	Innovative vegetable oil-PLGA hybrid nanoparticles with potential biomedical applications Jana Ghitman, Raluca Stan, Horia Iovu
21.	Ghitman Jana	New developments in POSS reinforced methacrylate-thiol-ene dental formulations Jana Ghitman, Nicoleta M. Florea, Adriana Lungu, Horia Iovu
22.	Iliescu Andrei	Thermal changes of bone induced during drilling for dental implants placement: an in vitro study. Alexandru Andrei Iliescu, Cristian Marian Petcu, Razvan Mercut, Mihaela Georgiana Iliescu, Ileana Cristiana Petcu, Irina Maria Gheorghiu, Tiberiu Tarca, Paula Perlea
23.	Ionescu Ionut Cornel	Study on the mechanical and thermal behaviour of dental brackets, using the finite element method Ionescu Ionut-Cornel, Baci Florin, Cojocaru Mihai, Cotrut Cosmin
24.	Ivan Florina Daniela	Comparative studies on impact of synthesis methods on structural properties of poly(N,N-dimethylaminoethyl methacrylate) homopolymer Florina D. Ivan, Alina G. Rusu, Loredana E. Nita, Iordana Neamtu, N.Tudorachi, Alina Diaconu, Liliana Verestiuc, Aurica P. Chiriac
25.	Jumanca Daniela	Toothpaste containing betulin nanocapsules Jumanca Daniela, Neagu Carina, Galuscan Atena, Angela Codruta Podariu
26.	Kozma Alexandru	New approaches in regenerative medicine Alexandru Nicolae Kozma, Cristian Zaharia, Alin Gabriel Gabor, Cosmin Sinescu
27.	Lagazzo Alberto	Mechanical characterization of porcine menisci in swelling condition Alberto Lagazzo, Fabio Giuliani, Marco Capurro, Giuseppe Cama, Peter Dubrue, Fabrizio Barberis
28.	Maidaniuc Andreea	In vitro evaluation of calcium phosphate powders intended for solid freeform fabrication of bone scaffolds

		A.Maidaniuc, G.E.Stan, M.Miculescu, S.I.Voicu, A.Cimpean, V.Mitran, D.Batalu, F.Miculescu
29.	Manea Liliana Rozemarie	Medical applications of functional electrospun nanofibers – a review Liliana Rozemarie Manea, Alexandru Popa, Andrei-Petru Berteau
30.	Mardare Mihai	Applications of porous tantalum in orthopaedics Marius Niculescu, Mihai Mardare
31.	Marghalani Hanadi	Effects of filler characteristics on radiopacity of experimental nanocomposite Hanadi Y. Marghalani
32.	Mehedintu Claudia	Biomechanical properties of biologic grafts used in pelvic reconstructive surgery Mihaela Plotogea, Elvira Bratila, Monica Cirstoiu, Oana Ionescu, Sorin Ionescu, Claudia Mehedintu
33.	Mocanu Aura Catalina	Synthesis technology and preliminary characterization of marble type precursors-derived hydroxyapatite as bone substituent A.C.Mocanu, S.I.Voicu, A.Maidaniuc, M.Miculescu, L.T.Ciocan, C.A.Dascalu, A.Berbecaru, F.Miculescu
34.	Motoc Ovidiu	Toxicological activity of eugenol, preliminary study Ovidiu Motoc, Laura-Cristina Rusu, Cristina Adriana Dehelean, Iulia Panzaru, Angela Codruta Podariu, Codrina Mihaela Levai, Liana Todor, Ramona Amina Popovici
35.	Muhulet Alexandru	Composite polymeric membranes with carbon nanotubes for hemodialysis Alexandru Muhulet, Florin Miculescu, Stefan Ioan Voicu
36.	Munteanu Corneliu	Comparative microstructural and mechanical properties of some zirconium oxides coatings on Mg-Ca-Zr alloys C.Munteanu, B.Istrate, D.Mareci, C.L.Trinca, L.R.Manea, M.Benchea
37.	Neagu Carina Sonia	Optical coherence tomography employed for veneer interface evaluation Carina Sonia Neagu, Andreea-Codruta Cojocariu, Raul Ciprian Ionel, Florin Ionel Topala, Mihai Romiu, Meda Lavinia Negrutiu, Cosmin Sinescu, Virgil Florin Duma, Adrian Gh. Podoleanu
38.	Olaret Elena	Bicomponent hydrogels based on modified natural proteins E.Olaret, A.Serafim, M.G.Albu Kaya, M.Ghica, I.C.Stancu
39.	Opri Mirela	Characterization of three commercial dental ceramic powders Opri Mirela, Manolea, Cioatera Nicoleta, Voinea Adriana, Rica Radu
40.	Plopeanu Elisa	Potential of Bioceramic Coatings for Biodegradable Magnesium Alloys Plopeanu Elisa, Țăposu Alexandra, Ștefan Izabela, Dragomir Lavinia, Antoniac Iulian
41.	Popescu Diana	Preoperative planning of multi-planar femur osteotomy using 3D printed customized surgical guides Diana Popescu, Dan Laptou, Anton Hadar, Rodica Marinescu
42.	Popescu Diana	Design and topological optimization of a 3D printed prosthetic hand. A case study report Daniel Vlasceanu, Diana Popescu
43.	Popescu Mugur	The efficiency of endodontic retreatment through direct crown acces Mugur-George Popescu, Diana Marian, Teodora Stefanescu, Aurora Antoniac

44.	Pop Izabella	Surface deterioration of orthodontic micro-implants following different chemical and physical sterilization methods Silvia Izabella Pop, Violeta Merie, Mariana Pacurar, Dana Cristina Bratu
45.	Pop Izabella	Evaluation of the mechanical properties and surface topography of as-received, immersed and as-retrieved orthodontic archwires Silvia-Izabella Pop, Mircea Dudescu, George Popa, Dana Cristina Bratu
46.	Popovici Ramona	Potentially prophylactic and curative effects of natural extracts of mouth rinses and toothpastes. Ramona Amina Popovici, Laura-Cristina Rusu, Florina Andrica, Angela-Codruta Podariu, Pusa Gaje, Codrina Mihaela Levai
47.	Rusu Alina	Development of new bioconjugated stimuli-responsive nanogels for controlled drug delivery A.G.Rusu, A.Diaconu, L.E.Nita, N.Tudorachi, D.Pamfil, L.Mititelu-Tartau
48.	Rusu Alina	The interaction of tamoxifen drug on the collagen secondary structure Alina G. Rusu, Irena C. Grierosu, Iulian Radu, Mioara Drobota
49.	Rusu Laura Cristina	Products based on plant extracts used in the treatment of oral mucosal lesions-preliminary study Laura-Cristina Rusu, Ramona Amina Popovici, Cristina Adriana Dehelean, Iulia Panzaru, Angela Codruta Podariu, Raluca Cosoroaba, Lavinia Ardelean
50.	Serafin Andrada	Methods used for experimental testing of potentially harmful compounds used in dentistry Andrada Serafin, Raluca Cosoroaba, Sergiu Alexandru Tofan, Bogdan Sink, Ramona Amina Popovici, Laura-Cristina Rusu, Codrina Mihaela Levai, Teodora Stefanescu
51.	Silaghi Dumitrescu Laura	Study of the morphology of some experimental dental giomers by SEM and AFM techniques Laura Silaghi-Dumitrescu, Bogdan Diana, Lucian Barbu, Moldovan Marioara, Doina Podan, Cristina Prejmorean
52.	Cuc Stanca	Adhesion of biocomposite materials in relation to metal structures fabricated for experimental implants Cuc Stanca, Alexandru Burde, Cosma Cosmin, Leordean Dan, Rusu Aurelian Mircea, Moldovan Marioara
53.	Sinescu Cosmin	Evaluation of tizian zirconia reinforced composite for dental applications R.Negru, C.Marcautuanu, M.L.Negrutiu, D.Serban, C.Sinescu
54.	Sink Bogdan	Clinical and radiological considerations in dentomaxillary abnormalities Bogdan Sink, Sergiu Alexandru Tofan, Silviu Brad, Anca Porumb, Ramona Amina Popovici, Codruta Tigmeanu, Laura-Cristina Rusu
55.	Strugaru Sorin Iacob	Effect of aminoacids solution on the corrosion behaviour of TiMoNb alloys D.Mareci, S.I.Strugaru, B.Istrate, C.L.Trinca, C.Munteanu
56.	Sucala Diana	SEM analysis of the interface at dentin of TiO₂ based adhesives Diana Sucala, Codruta Sarosi, Stanca Cuc, Catalin Popa, Marioara Moldovan
57.	Tanasa Ioana Alexandra	Magnetic nanoparticles functionalized with enzymes for potential applications as biosensors V.Balan, A.G.Rusu, I.A.Tanasa, C.Surdu, O.M.Manolea, A.Minuti, B.I.Ciubotaru, L.Verestiuc

58.	Tarcolea Mihai	Bioactive and antibacterial coatings obtained by pulsed electrochemical deposition M.Tarcolea, D.M.Vranceanu, A.Vladescu, M.Dinu, T.Tran, C.M.Cotrut
59.	Tecu Camelia	<i>In vitro</i> Characterization of some Bioceramic Based Composites for Bone Substitutes Tecu Camelia, Cojocaru Mihai, Popescu Gheorghe, Antoniac Aurora, Dragomir Lavinia, Antoniac Iulian
60.	Todor Liana	Study assessing the toxicity of sodium hypochlorite used in endodontic treatments Liana Todor, Cristina Adriana Dehelean, Iulia Panzaru, Mugur Popescu, Ovidiu Motoc, Sergiu Andrei Todor, Sergiu Alexandru Tofan, Ramona Amina Popovici, Laura-Cristina
61.	Tofan Sergiu	New perspectives in three-dimensional evaluations of the tender bone in dentistry Sergiu Alexandru Tofan, Bogdan Sink, Anca Porumb, Codruta Tigmeanu, Silviu Brad, Serban Talpos, Ramona Amina Popovici, Laura-Cristina Rusu
62.	Trifoi Ancuta	Effect of PEG content on the mechanical properties of Bis-GMA/TEGDMA/UDMA dental composites Gherman Timea, Moldovan Marioara, Cuc Stanca, Blajan Olimpiu, Trifoi Ancuta Roxana
63.	Turin-Moleavin Ioana	Drug carriers for gene therapy based on benztrialdehyde, polyethyleneglycol and branched-polyethyleneimine Ioana-Andreea Turin-Moleavin, Mariana Pinteala, Mihail-Dumitru Barboiu
64.	Verestiuc Liliana	Magnetic nanoparticles based on biotinylated N-palmitoyl chitosan for drug delivery applications V.Balan, D.L.Ciubeica, L.Verestiuc
65.	Vladescu Alina	Biocompatible inorganic coatings based on Zr nitrides and oxinitrides in multilayer structure used as adhesion layers in metal-ceramic restorations A.Vladescu, T.Petreus, N.Forna, F.Baciu, M.Dinu, D.M.Vranceanu, C.M.Cotrut
66.	Vladescu Alina	Fractal analysis of the surface texture of the hydroxyapatite coatings used for biomedical applications A.Vladescu, L.Braic, I.Titorencu, V.Pruna, M.Dinu
67.	Voiculet Adriana	Nanomaterials by doping hybridization platinum-based antitumoral drugs A.Voiculet, D.C.Salceanu, R.DPavaloiu, F.Shaat, C.Hlevca
68.	Voicu Stefan Ioan	Composite membranes with derivatized graphenes for haemodialysis Stefan Ioan Voicu
69.	Zaharia Cristian	Hand-held devices applications for optical coherence tomography in dentistry Cristian Zaharia, Cosmin Sinescu, Virgil Florin Duma, Meda-Lavinia Negrutiu, A. Gh. Podoleanu

Notes

[illegible]