



**4th International Conference
on Nanotechnology in
Medicine**

7-9 November 2016

Warsaw University of Life Sciences, Warsaw, Poland

TECHNICAL PROGRAMME

Dear Colleagues,

On behalf of the organising committee, we are delighted to welcome you to Warsaw and to the FOURTH International Conference on Nanotechnology in Medicine (NANOMED-2016). The previous 3 NANOMED conferences were held in London at University College London (in 2012), Royal Free Hospital in 2014 (UCL campus) and in Manchester, UK in 2015. NANOMED conferences are an off-shoot from the much bigger and established NANOSMAT conference (www.nanosmat.co.uk) and organised by “**The NANOSMAT Society**”.

This year NANOMED-2016 incorporates the “**10th International Forum on Innovative Technologies for Medicine**” – **ITMED 2016**.

This year’s event brings together international experts and academics from around the globe. We are privileged to have over 10 invited speakers who are world leading in the field of Nanomedicine. The 3-day programme includes a number of parallel sessions, focusing on key areas in the application of nanotechnology in medicine including, Drug Delivery; Diagnostics and Imaging; Tissue Engineering & Biomaterial Science; and Nanoscale biomaterial surface modification. In addition, we will have a poster session on **7th November** and there will be a prize for the **best poster**, which will be sponsored by the **British Society of Nanomedicine**.

We would like to thank Warsaw University of Life Sciences for supporting this conference. We would also like to thank each of you for attending this very important conference and sharing your knowledge and expertise with the Nanomedicine & ITMED communities.

We hope you will have an enjoyable and rewarding time at the conference.

Sincerely,

Professor Ewa Sawosz (NANOMED, Chair)

Professor Alexander Marcus Seifalian (NANOMED, Chair)

Dr May Azzawi (NANOMED, Chair)

Professor Stanislaw Mitura (ITMED, Chair)

Professor Jan Szmidt (ITMED, Chair)

Dr Nasar Ali (The NANOSMAT Society)

Time		7 November 2016
09:00 onwards	Registration	
10:00 - 10:45	Welcome Address: Room: Crystal Hall PROFESSOR WIESLAW BIELAWSKI (RECTOR), Warsaw University of Life Sciences, (Poland) Professor Ewa Sawosz Chwalibog (Poland), Professor Stanislaw Mitura (Poland) Professor Jan Szmidt (Poland), Dr Piotr Dumania (Poland), Dr Nasar Ali (UK)	
10:45 - 11:30	Plenary 1: Professor Alexander Seifalian , University College London, UK <i>"Is nanotechnology-based material and stem cells solution for treatment and replacement of damaged organs?"</i>	
11:30 - 12:00	Refreshment break	
12:00 - 12:30	INV-17: Professor André Chwalibog , University of Copenhagen, Denmark <i>"Bio-interactions between carbon nanoparticles and organisms"</i>	
12:30 - 13:00	INV-2: Dr Jürgen M. Lackner , JOANNEUM RESEARCH Forschungsgesellschaft mbH, Austria <i>"in vitro and in vivo bio-corrosion behaviour of antimicrobial, osteoconductive Ti-Mg-Ag(Pt) gradient layers for spinal disc implants"</i>	
13:00 - 14:00	Lunch	
14:00 - 14:30	INV-24: Professor Samir Iqbal , University of Texas at Arlington, USA <i>"Electromechanical sensing for real time detection, discrimination and quantification of cancer cells"</i>	
14:30 - 15:00	MED-100: Professor Jacek Gronwald , Pomeranian Medical University in Szczecin, Poland <i>"Selected genetic and environmental factors influencing cancer risk"</i>	
15:00 - 15:30	INV-21: Professor Elzbieta Pamula , AGH University of Science and Technology, Poland <i>"Resorbable drug delivery nanocarriers for local treatment of bone tissue diseases"</i>	
15:30 - 16:00	INV-18: Professor Piotr Wilczek , Religa Foundation of Cardiac Surgery Development, Poland <i>"Nanodiamonds in tissue engineering"</i>	
16:00 - 16:30	INV-23: Dr Sławomir Jaworski , Warsaw University of Life Sciences, Poland <i>"Antibacterial properties of graphene-based nanomaterials: Recent achievements and challenges"</i>	
16:30 - 17:00	MED-114: Dr Katarzyna Dziendzikowska , Warsaw University of Life Science, Warsaw, Poland <i>"Reproductive toxicity of metal nanoparticles"</i>	
17:00 - 17:30	MED-101: Dr Helena Gronwald , Pomeranian Medical University in Szczecin, Poland <i>"An In Vitro comparison of influence of sandblaster and drill method on dentin surface"</i>	
17:00 - 18:00	POSTER SESSION with Refreshments	

09:00 -
09:30

8 November 2016

(Crystal Hall)

Plenary 3: Dr May Azzawi, Manchester Metropolitan University, UK
"Emerging nanotechnologies for the treatment of vascular disease"

Time	Special Session: NANO-BIO-MED interface Chair(s): Ewa Sawosz Chwalibog (Poland), Jayakumar Rajadas (USA) Room: Crystal Hall	Time	Session: Antibacterial Chair(s): Katarzyna Mitura (Poland), Jürgen M. Lackner (Austria) Room: First floor room
09:30 - 10:00	Prof Jacek Baranowski , Institute of Electronic Materials Technology, Warsaw, Poland <i>"Graphene - past, present and future"</i>	09:30 - 09:50	ITMED-02: Danuta Ciechańska, Magdalena Kucharska , Institute of Biopolymers and Chemical Fibers, Poland <i>"Bio-based Medical Dressings for Healing and Protection Against Pathogenic Bacteria"</i>
10:00 - 10:30	Prof Tomasz Ciach , Warsaw University of Technology, Poland <i>"Nanotechnological surface modification for medical devices"</i>	09:50 - 10:10	MED-66: Zbigniew J. Kaminski , Lodz University of Technology, Poland <i>"Functionalized carbon nanotubes useful in antitumor therapy"</i>
		10:10 - 10:30	MED-64: Dominik Jańczewski , Warsaw University of Technology, Poland <i>"Adjusting the surface zeta potential using thin polymeric film architecture, a method to prevent bacterial adhesion in biomedical applications"</i>
10:30 - 11:00	Refreshment break		
11:00 - 11:30	ITMED-101: Marta Grodzik , Warsaw University of Life Science, Warsaw, Poland <i>"Graphene in brain cancer (Glioma grade IV) therapy"</i>	11:00 - 11:30	ITMED-99: David Ruch , Luxembourg Institute of Science and Technology, Luxembourg <i>"Incorporation of nanoparticles into films by using atmospheric plasma"</i>
11:30 - 12:00	MED-2: Joon Myong Song , Seoul National University, Korea <i>"Insulin-mimetic and Anti-inflammatory Potential of a Vanadyl-Schiff Base Complex for its Application against Diabetes"</i>	11:30 - 12:00	ITMED-12: Mateusz Wierzbicki , Warsaw University of Life Science, Poland <i>"Nanobiotechnology in Anticancer Therapy"</i>
12:00 - 12:20	MED-18: Yung-chieh Chan , Genomics Research Center, Academia Sinica, Taiwan <i>"A fluorescence resonance energy transfer-based nanocomposite sensing MMP2-overexpressing cancer cells by Near Infrared irradiation"</i>	12:00 - 12:20	ITMED-01: Lucie Vysloužilová , Nanopharma, technology company, Pardubice, Czech Republic <i>"Nanofibrous scaffolds for regenerative medicine"</i>
12:20 - 12:40	MED-25: Laurent Bozec , UCL Eastman Dental Institute, UK <i>"Advances towards nanoscale diagnostics in Connective Tissues"</i>	12:20 - 12:40	ITMED-04: Ihor Khudetskyi, Yuliia Antonova-Rafi , Paton Electric Welding Institute, Kiev, Ukraine <i>"High frequency bipolar endoscopic sonde for minimally invasive surgery"</i>

12:40 - 13:00	MED-29: Heni Rachmawati , Bandung Institute of Technology, Indonesia <i>"Reverse Micelle Containing Bupivacaine HCl for Extended Local Anesthetic: formulation and in vitro-in vivo release study"</i>	12:40 - 13:00	ITMED-09: Dorota Bociaga , Lodz University of Technology, Poland <i>"Si-doped DLC coatings for medicine"</i>
13:00 - 14:00	Lunch		
Time	Session: Nanoscale biomaterial surface modification Chair(s): Alex Seifalian (UK) Room: Crystal Hall	Time	Session: Nanomedicine I Chair(s): May Azzawi (UK), Debra Whitehead (UK) Room: First floor room
14.00 - 14.20	MED-36: Adam Strange , Eastman Dental Institute, UCL, UK <i>"Quantifying Collagen Disease in Connective and Mineralised Tissues – Atomic Force Microscopy as an Adjunct Diagnosis"</i>	14.00 - 14.20	MED-42: Francesco Zamberlan , University of Nottingham, UK <i>"Colloidal semiconductor nanocrystals as theranostics agents"</i>
14.20 - 14.40	MED-15: Pegah Esmaeilzadeh , Martin Luther University Halle Wittenberg, Germany <i>"Synthesis of thiolated polysaccharides for multilayer coatings with improved cell adhesive properties"</i>	14.20 - 14.40	MED-12: Elena Velikanova , Research Institute for Complex Issues of Cardiovascular Diseases, Russia <i>"Surface functionalisation of compliance vascular grafts with bioactive RGD peptides improves endothelialisation In Vivo"</i>
14.40- 15.00	MED-28: Mahtab Asadian , Gent University, Belgium <i>"Correlation between surface chemistry, wettability, adsorbed protein and cell morphology on plasma treated nanofibers"</i>	14.40- 15.00	MED-61: Zbigniew Stojek , University of Warsaw Pasteura 1, Poland <i>"Thermodegradable nanogels crosslinked with three-segment DNA hybrids as drug carriers in hyperthermia treatment"</i>
15.00 - 15.20	MED-39: Adam Mieloch , Adam Mickiewicz University, Poland <i>"Assembly of virus-like nanoparticles with superparamagnetic core. Multifunctional platform for biomedical applications"</i>	15.00 - 15.20	MED-95: Evrim Umut , University of Warmia Mazury, Poland <i>"Quadrupole Relaxation Enhancement as a novel concept of contrast agents for MRI"</i>
15.20 - 15.40	MED-76: Ali Ghafarinazari , University of Verona, Italy <i>"Surface Functionalization to Enhance Porous Silicon Optical Stability in Biological Media and to Avoid Drug Reduction"</i>	15.20 - 15.40	MED-97: Debra Whitehead , Manchester Metropolitan University, UK <i>"Sustained release of antimicrobial and antifungal agent from mesoporous nanoparticles embedded in ormosil on acrylic denture resin substrates"</i>
15.40 - 16.10	Refreshment break		

Time	Session: Nano-vehicle delivery systems Chair(s): Yogita Patil-Sen (UK) Room: Crystal Hall	Time	Session: Nanomedicine II Chair(s): Stanislaw Mitura (Poland) Room: First floor room
16.10 - 16.30	MED-75: D. Dixon , Ulster University, UK <i>"Peptide Functionalised Gold Nanoparticles for Radiosensitisation"</i>	16.10 - 16.30	MED-96: Nurettin SAHINER , Canakkale Onsekiz Mart University, Turkey <i>"Degradable macro-, micro- and nano-sized natural phenolic based particles"</i>
16.30 - 16.50	MED-49: Helen McCarthy , Queen's University Belfast, UK <i>"Construction of a Multi-Functional Delivery System For Metastatic Prostate Cancer"</i>	16.30 - 16.50	MED-106: Saeed Shanehsazzadeh , University of Mons, Belgium <i>"Quantitative effect of magnetic field strength on PEG-Coated superparamagnetic iron oxide nanoparticles"</i>
16.50 - 17.10	MED-54: Jonathan Coulter , Queen's University Belfast, UK <i>"Radiation induced inflammatory signalling as a targeting strategy for locally advanced prostate cancer"</i>	16.50 - 17.10	MED-37: Diky Mudhakhir , Institut Teknologi Bandung (ITB), Indonesia <i>"Design an Efficient Polymeric Nanocarrier for Food Vacuole Targeting"</i>
17.10 - 17.30	MED-74: Guzman Torrelo , TU Delft, Netherlands <i>"Simultaneous Nano-carriers Formation, Targeting and Loading for Customized Cancer Therapy"</i>	17.10 - 17.30	MED-65: Beata Kolesinska , Lodz University of Technology, Poland <i>"Materials formed from biomolecules by self-aggregation process as a scaffolds useful in regenerative medicine"</i>
19:30	Conference Gala Dinner		

09:00 - 09:30		9 November (Crystal Hall)	
Plenary 4: Professor Roman Major, Institute of Metallurgy and Materials Science, Polish Academy of Sciences, <i>"Blood- contacting materials dedicated for ReligaHEART"</i>			
09:30 - 10:00	INV-22: Dr Yogita Patil-Sen , University of Central Lancashire, UK <i>"Fabrication of magnetic nanoparticles for hyperthermia and drug delivery applications"</i>		
10:00 - 10:20	INV-19: Professor Stanislaw Mitura , Koszalin University of Technology, Poland <i>"Carbon Allotropes for Medicine"</i>		
10:20 - 10:40	Refreshment break		

Time		Session: HEART Chair(s): Zbigniew Nawrat (Poland), Magdalena Pisarska (Poland) Room: Crystal Hall		
10:40 - 11:00	ITMED-07: Zbyszek Nawrat , Religa Foundation of Cardiac Surgery Development Zabrze, Poland <i>"Robots and telemanipulators in surgery"</i>			
11:00 - 11:20	ITMED-11: Piotr Wilczek , Religa Foundation of Cardiac Surgery Development Zabrze, Poland <i>"Stem Cells"</i>			
11:20 - 11:40	ITMED-10: Magdalena Pisarska , University School of Applied Sciences in Kalisz, Poland <i>"Cardio-implants in bio-medical engineering formulation"</i>			
11:40 - 12:00	ITMED-44: Małgorzata Gonsior , Religa Foundation of Cardiac Surgery Development Zabrze, Poland <i>"Surface modification for contact of blood flowing in heart assist devices"</i>			
12:00 - 12:20	ITMED-43: Roman Kustosz , Religa Foundation of Cardiac Surgery Development Zabrze, Poland <i>"ReligaHeart ROT - The Polish innovative technology for long term heart assistance"</i>			
12:20 - 12:40	ITMED-42: Maciej Gawlikowski , Religa Foundation of Cardiac Surgery Development Zabrze, Poland <i>"Beyond of blood flow - the innovative technologies to support the heart assist devices"</i>			
12:40 - 13:40	Lunch			
Time		Session: Nanomedicine I Chair(s): Andre Chwalibog (Denmark) Room: Crystal Hall	Time	Session: Nanomedicine III Chair(s): Stanislaw Mitura (Poland) Room: First floor room
13:40 - 14:00	INV-12: Dr Katarzyna Mitura , Koszalin University of Technology, Poland <i>"Carbon and polymers in food packaging"</i>		13:40 - 14:00	MED-5: S.M. Gilmanova , Al-Farabi Kazakh National University, Kazakhstan <i>"Features of the application of phosphatidylinositol (PIP) liposomes for transdermal delivery of pharmaceuticals and cosmetics"</i>
14:00 - 14:20	MED-99: Tomasz Rydzkowski , UWM Olsztyn/PK Koszalin/Poland <i>"Properties and Possible Applications of Nanodiamond Coated LD-PE Foil"</i>		14:00 - 14:20	MED-107: Afsaneh Lahooti , Tehran University of Medical Sciences(TUMS), Iran <i>"Effect of size on blood clearance of 68Ga-USPIO-BBN as a dual-modality molecular imaging contrast agent for PET/MRI"</i>
14:20 - 14:40	MED-94: Marta Kutwin , Warsaw University of Life Sciences, Poland <i>"Platinum nanoparticles against U87 Glioblastoma tumour cell line"</i>		14:20 - 14:40	MED-110: Maria Russo , Istituto Italiano di Tecnologia, Italy <i>"A Microfluidic platform to design crosslinked Hyaluronic Acid Nanoparticles (cHANPs) for application in MRI modality"</i>
14:40 - 15:00	MED-112: Enza Torino , Istituto Italiano di Tecnologia, Italy <i>"Strategies to design engineered biopolymer nanostructures for therapy and multimodal imaging applications"</i>		14:40 - 15:00	MED-105: Alfonso Maria Ponsiglione , Istituto Italiano di Tecnologia, Italy <i>"Interactions between MRI contrast agents and biopolymers"</i>
15:00 - 15:20	MED-82: Ewa Dluska , Warsaw University of Technology, Poland <i>"Highly effective living cells banking method in multiple emulsions"</i>		15:00 - 15:20	MED-91: Łucja Dybowska-Sarapuk , Warsaw University of Technology, Poland <i>"The application of graphene nanoplatelets compositions in nanomedicine"</i>

15:20 - 16:30	Refreshment break & "Round Table Discussion" on <i>International Scientific Projects</i> with participation from company directors in the area of biomedical engineering and medicine"
16:30	Concluding remarks

invitation to join and become part of
The NANOSMAT Society

the
NANOSMAT
society



Reaching **NEW** heights in NANOSCIENCE
& Nanotechnology **TOGETHER**

Posters List:

MED-1: Rogério Pinto Mota, UNESP, Brazil

"Incorporation of Chlorhexidine in thin polymeric films deposited by plasma technique from the monomer 2-methyl-2-oxazolyne"

MED-3: Dejun LiTianjin, Normal University, China

"The hydrothermal reaction time induce biomedical behaviours of Shape-controlled three-dimensional self-assembly graphene"

MED-4: Dejun LiTianjin, Normal University, China

"The structure and biocompatibility of Ag/Ti(Ag)N multilayers synthesized by multi-target magnetron co-sputtering"

MED-16: Jin-Woo Park, Kyungpook National Univerisity, Korea

"Modulating the Early Blood Platelet Response Using Bioactive Ion in a Nano-rough Titanium Implant Surface"

MED-30: Heni Rachmawati, Bandung Institute of Technology, Indonesia

"Curcumin Nanogel for Transdermal Application: in vitro and in vivo studies"

MED-32: Ü. Bozoğlu, Hacettepe University, Turkey

"Chemically Modified Poli(etheretherketone) (PEEK) Coating with Boron-doped Nanohydroxyapatite for Dental Implants"

MED-33: Justyna Witkowska, Warsaw University of Technology, Poland

"Biological properties of nanocrystalline composite layers produced on NiTi shape memory alloy at low-temperature plasma"

MED-41: Francesco Zamberlan, University of Nottingham, UK

"Colloidal semiconductor nanocrystals as theranostics agents"

MED-58: Ming-Hsien Chan, National Taiwan University, Taiwan

"Near-Infrared Light Mediated Photodynamic Therapy by Upconversion Nano-particles with Graphitic Carbon Nitride Quantum Dots"

MED-62: Wioletta Liwinska, University of Warsaw, Poland

"Nanogel combined with tri-segment oligonucleotide hybridization for controlled release of anthracycline drug"

MED-67: Alaa Alzahrani, University of Texas at Arlington, USA

"Injectable Fibrous Hydrogel for Co-Delivery of Growth Factors Treating Diabetics Foot Ulcer"

MED-70: Anna Matras, Warsaw University of Technology, Poland

"Degradable electrospun polyactic acid/bioactive calcium phosphate glass-ceramic scaffolds with angiogenic properties"

MED-71: Marcin Drozd, Warsaw University of Technology, Poland

"Glucose Dithiocarbamates as a New Type of Ligands for QD-based Bioimaging"

MED-79: Marta Jedynak, Polish Academy of Sciences, Poland

"Adenovirus dodecahedron use as drug and antigen nanoplatfom for cancer therapy"

MED-83: Ewa Dluska, Warsaw University of Technology, Poland

"Multiple emulsions as selective platforms for targeted drug delivery"

MED-93: Andrzej Peptowski, Warsaw University of Technology, Poland

"Printed, disposable graphene-based glucose biosensor"

MED-98: Debra Whitehead, Manchester Metropolitan University, UK

"The Antimicrobial Efficacy of Drug -Loaded Mesoporous Silica Nanoparticles"

MED-102: Nahit Aktas, Canakkale Onsekiz Mart University, Turkey

"Surface Modification of poly(sucrose) and poly(maltitol) particles for biomedical applications"

- MED-103: Nurettin Sahiner**, Canakkale Onsekiz Mart University, Turkey
"Modifiable natural gum based particles as controlled drug delivery system"
- MED-104: Przemek Ceynowa**, Koszalin University of Technology, Poland
"Optimization of the process of functionalization of nanoparticles of diamond DPP in a rotary reactor chamber MW PACVD for improving its biocompatibility"
- MED-108: Katarzyna Mitura**, Koszalin University of Technology, Poland
"Functionalized nanodiamonds"
- MED-109: Kaja Urbańska**, Warsaw University of Life Sciences, Poland
"The impact of silver nanoparticles on the expression of Cyclin D1 in U-87 glioblastoma multiforme cells cultured in ovo"
- MED-113: Monika Łukasiewicz**, Warsaw University of Life Sciences, Poland
"Nanoparticles of copper as a stimulator of cell proliferation in chicken bones"
- MED-115: Katarzyna Dziendzikowska**, Warsaw University of Life Sciences, Poland
"The effect of diesel engine emission particles on oxidative stress parameters in rat testis"
- MED-116: Tomasz Rydzkowski**, UWM Olsztyn/PK Koszalin/Poland
"Biodegradation of polymer packaging materials"
- MED-60: Barbara Strojny**, Warsaw University of Life Sciences, Poland
"Diamond nanoparticles affect the activity of curcumin against hepatoma and normal cells"
- MED-57: Ewa Sawosz**, Warsaw University of Life Sciences, Poland
"The 3D layer of GO supports development of progenitor muscle cells"
- MED-63: K.P. Vadalasetty**, University of Copenhagen, Denmark
"Molecular influence of Graphene family nanomaterials on Human Breast Cancer cells (MCF-7 & MDA-MB-231) under in vitro and in ovo conditions"
- MED-68: Natalia Kurantowicz**, Warsaw University of Life Sciences, Poland
"Graphene oxide and nanoplatinium complex as an intelligent and specific drug delivery system to Kupffer cells"
- MED-69: Natalia Kurantowicz**, Warsaw University of Life Sciences, Poland
"Assessment of graphene oxide impact on the human leukemic T-cells by traditional in vitro method and after their encapsulation in a microfluidics chip"
- MED-17: Jae Sung Park**, Kyungpook National University, Korea
"Development of cytometric system for Complete Blood cell Count (CBC)"
- MED-86: Mateusz Wierzbicki**, Warsaw University of Life Sciences, Poland
"Graphite nanoparticles and graphene oxide decreases angiogenic potential of glioblastoma cell line U87 but not U118"
- MED-90: Sławomir Jaworski**, Warsaw University of Life Sciences, Poland
"Interaction of different forms of graphene with red blood cells"
- ITMED-02: Andrzej Zieliński**, Gdansk University of Technology, Poland
"The 3D printing of titanium prosthetic foundations"
- ITMED-03: Sergey Dromashko**, Minsk, Belarus
"Genetically Modified Organisms"
- ITMED-06: Leszek Orlewicz**, TAURUS Film itd., Poland
"3D Heart"
- ITMED-13: Ewa Ziółkowska**, AFIDEA, Poland
"Anticancer Therapy in Poland"

- ITMED-14: Michal Szczypinski**, Warsaw University of Technology, Poland
"Antibacterial Polystyrene Containers"
- ITMED-45: Csaba Dücső**, Centre for Energy Research, HAS, Budapest, Hungary
"Advances in the development of a Force - Feedback Control System Dedicated for Robin Heart Surgical Robot"
- ITMED-46: Zbigniew Nawrat**, Foundation of Cardiac Surgery Development, Poland
"The Robin Heart PortVisionAble before first clinical application – report"
- ITMED-47: Karolina Kroczek**, Silesian Medical University, Poland
"Surgical robots - new challenges, new standards & market analysis"
- ITMED-48: Oksana Boyko**, Lviv National Medical University, Ukraine
"Multifunctional information system for evaluation and stabilization of mental health"
- ITMED-49: Nataliya Dorosh**, Lviv National Medical University, Ukraine
"Mobile information feedback system for m-health"
- ITMED-50: Leszek Olbrzymek**, Ledo, Lodz, Poland
"Multifunctional 3D implants"
- ITMED-56: M Kosik, Mehmet Caner Cağdanlioğlu**, Koszalin University of Technology, Poland / Turkey
"Plating density impact on fibroblasts survival rate"
- ITMED-57: Krystian Kozłowski, Melike Aydoğan**, Koszalin University of Technology, Poland / Turkey
"Evaluation of the activity of biological material placed in nanofibers"
- ITMED-58: Petr Louda, Totka Bakalova**, Technical University of Liberec, Czech Republic
"Assessing the suitability of carbon nanostructures for colonization of bacterial populations"
- ITMED-59: Justyna Olejnik**, Koszalin University of Technology, Poland
"Methods diagnostic autism complies with the latest standards"
- ITMED-60: Justyna Olejnik**, Koszalin University of Technology, Poland
"The impact of vaccination against diphtheria, tetanus and pertussis for the development of a holistic development of the child"
- ITMED-61: Tomasz Królikowski**, Koszalin University of Technology, Poland
"3D printing body parts"
- ITMED-62: Ireneusz Kotela**, Central Clinical Hospital of the Ministry of the Interior and Administration in Warsaw, Poland
"Antibacterial coatings for implants"
- MED-84: Marta Grodzik**, Warsaw University of Life Sciences, Poland
"The interaction of graphene, graphene oxide and reduced graphene oxide nanoplates with glioma grade IV cells"
- MED-85: Marta Grodzik**, Warsaw University of Life Sciences, Poland
"Diamond nanoparticles induce cell cycle arrest in glioma grade IV tumor in vitro"
- MED-89: Piotr Wilczek**, Foundation of Cardiac Surgery Development, Poland
"Regeneration of acellularized porcine pulmonary valve in presence of fucoïdan and VEGF bilayers"
- ITMED-55: Stanislaw Mitura**, Koszalin University of Technology, Poland
"Carbon Allotropes for Medicine"
- MED-001: May Azzawi**, Manchester Metropolitan University, UK
"2A three-dimensional tri-culture cardiovascular model for nanotoxicity testing"
- MED-92: Erika Silva Campa**, Universidad de Sonora, Mexico
"Synthesis and Characterization of Silver Nanoparticles Modified with MPA to Enhancement Raman Signal of Tumor Cells"

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