

	<b>12<sup>th</sup> June</b>
	<b><u>Plenary session</u></b> <b>Chairlady Gunta Krumina</b>
<b>9:30-10:00</b>	<b>THE DEVELOPMENT OF OBJECTIVE AND QUANTITATIVE EYE-TRACKING-BASED METHOD FOR THE DIAGNOSTICS OF OCULOMOTOR DYSFUNCTIONS</b> <u>Gunta Krumina, Ilze Ceple, Viktorija Goliskina, Evita Kassaliete, Tomass Ruza, Evita Serpa, Aiga Svede, Liva Volberga</u>
<b>10:00-10:30</b>	<b>POTENTIAL OF BIOCERAMIC COATINGS ON BIODEGRADABLE MAGNESIUM ALLOYS FOR TRAUMA IMPLANTS</b> <b><u>Invited lecture</u></b> <u>Iulian Antoniac, Romania</u>
<b>10:30-11:00</b>	<b>THE IMPACT OF ENGINEERING ENABLING TECHNOLOGIES ON THE FURTHER DEVELOPMENT OF PERSONALIZED ORTHOPEDICS</b> <b><u>Invited lecture</u></b> <u>Miroslav Trajanovic, Nikola Vitkovic, Nikola Korunovic, Dragan Misic, Jovan Arandjelovic, Serbia</u>
<b>11:00-11:30</b>	<b>Coffee break</b>

	<b><u>Section 1. Biomechanical approaches, rehabilitation and wearable tools</u></b> <b>Chairmen: Lukas Pipiras, Miroslav Trajanovic</b>
<b>11:30-11:45</b>	<b>METHOD FOR MUSCLE FATIGUE DETECTION USING INERTIAL SENSORS</b> <u>Beāte Banga, Aleksejs Kataševs, Modris Greitāns</u>
<b>11:45-12:00</b>	<b>ACCURATE REGISTRATION OF 3D MODELS WITH ORGANS IN AUGMENTED REALITY THROUGH INERTIAL SENSORS</b> <u>Valerio De Luca, Roberto Bortoletto, Davide Ranaldo, Lucio Tommaso De Paolis</u>
<b>12:00-12:15</b>	<b>IN-SILICO VALIDATION OF ARTERIAL COMPLIANCE ESTIMATION METHOD BASED ON NONINVASIVELY RECORDED SIGNALS</b> <u>David Svec, Vasiliki Bikia, Nikolaos Stergiopoulos, Michal Javorka</u>
<b>12:15-12:30</b>	<b>A PROTOTYPE DEVICE FOR CONTINUOUS MONITORING OF BREATHING MODE: NASAL VERSUS MOUTH</b> <u>Lukas Pipiras, Vaidotas Marozas</u>
<b>12:30-12:45</b>	<b>RESPIRATION AND HEART RATE CONTRIBUTION TO STROKE VOLUME VARIABILITY</b> <u>Michal Javorka, Jana Cernanova Krohova, Radovan Wiszt, Barbora Czippelova, Zuzana Turianikova, Luca Faes</u>

12:45-13:00	<b>WEARABLE-BASED DETECTION OF PHYSICAL STRESSORS IN PATIENTS WITH FRAILTY SYNDROME</b> <u>Daivaras Sokas</u> , Andrius Petrėnas
13:00-13:15	<b>SMART TEXTILE FOR EVALUATION OF LOWER EXTREMITIES EXERCISES IN POST STROKE PATIENT REHABILITATION</b> <u>Peteris Kozirevs</u> , Alexander Oks, Aleksei Katasev, Viktorija Survilo

13:30-14:30	LUNCH
	<b><u>Section 1. Biomechanical approaches, rehabilitation and wearable tools</u></b> Chairs Inga Saknite, Katrina Caikovska
14:30-14:45	<b>APPLICATION OF DAID SMART SHIRT PROTOTYPE IN REHABILITATION FOR SUBACROMIAL PAIN SYNDROME PATIENTS PARTICIPATING HIGH RISK OF INJURY SPORTS</b> <u>Guna Semjonova</u> , Janis Vetra, Aleksandrs Okss, Aleksejs Katasevs, Vinita Cauce
14:45-15:00	<b>EFFECTS OF TACTICAL BOOTS ON FOOT AND ANKLE BIOMECHANICS</b> <u>Darja Nesterovica</u> , Normunds Vaivads, Ainārs Stepens
15:00-15:15	<b>THE REVERSE ENGINEERING OF HUMAN ORGANS BASED ON THE APPLICATION OF METHOD OF ANATOMICAL FEATURES</b> <u>Nikola Vitković</u> , Miroslav Trajanović, Miloš Stojković, Razvan Pacurar, Filip Górski

	<b><u>Section 2. Materials for medicine</u></b> Chair: <b>Akvilė Andziukevičiūtė-Jankūnienė</b>
11:30-11:45	<b>DEGRADATION STUDIES ON DIFFERENT POLYMERIC-BASED COMPOSITE USED AS COATINGS FOR BIODEGRADABLE MAGNESIUM IMPLANTS</b> <u>Streza Alexandru</u> , Antoniac Aurora, Butu Mihai, Voicu Stefan Ioan, Antoniac Iulian
11:45-12:00	<b>DYNAMIC TESTING OF PIEZORESISTIVE FABRICS FOR USE IN SMART WEARABLE PERSONAL PROTECTIVE EQUIPMENT</b> <u>Aleksandrs Vališevskis</u> , Aleksandrs Okss, Uģis Briedis
12:00-12:15	<b>DEVELOPMENT OF CYANOACRYLATE TISSUE ADHESIVE – POLYMER SUPPORT SYSTEMS FOR HEMOSTASIS DURING OPEN SURGERY PROCEDURES</b> <u>V.P. Tosa</u> , A. Ilie-Ene, A. Csapai, A. Mesaros, C. Popa
12:15-12:30	<b>INVESTIGATION OF KERATIN MODIFIED WITH BIOSYNTHESIZED SILVER NANOPARTICLES FOR ELECTROSPINNING PROCESS</b>

	Akvilē Andziukevičiūtē-Jankūnienē, Ugnē Zasčiurinskaitē, Aistē Balčiūnaitienē, Jonas Viškelis, Erika Adomavičiūtē, Virgilijus Valeika, Virginija Jankauskaitē
12:30-12:45	<b>MANAGING CHEMOTHERAPY SIDE EFFECTS: THE USE OF ACTIVATED CARBON WITH VERY HIGH SURFACE AREA</b> <u>B.I. Gerashchenko</u> , V.V. Sarnatskaya, K.I. Bardakhivskaya, O.S. Sydorenko, O.A. Diyuk, A.V. Terebilenko, D.O. Klymchuk (Remotely)

	<b><u>Section 3. Micro-, nano-, and molecular-scaled technologies.</u></b> <b><u>Personalized medicine.</u></b> <b>Chairlady and chairman Gita Revalde, Lorenzo Zucchini</b>
11:30-11:45	<b>A NOVEL ALGORITHM FOR THE COMPENSATION OF HEMOGLOBIN INTERFERENCE ON BILIRUBIN MEASUREMENT APPLIED TO A TWO-WAVELENGTHS REFLECTANCE PHOTOMETER</b> <u>Lorenzo Zucchini</u> , Miloš Ajčević, Agostino Accardo
11:45-12:00	<b>GUT ON A CHIP AS A TOOL FOR HUMAN MICROBIOTA DERIVED EXTRACELLULAR VESICLE SMALL RNA RESEARCH.</b> Roberts Rimša, Valerija Movcana, Karina Narbute, Janis Plume, Kevin Gillois, Karlis Grindulis, Arnita Spule, Felikss Rumnieks, Vadims Parfejevs, Gatis Mozolevskis, <u>Arturs Abols</u>
12:00-12:15	<b>EVALUATING OPTIMAL ELF-EMF STIMULATION CONDITIONS FOR ENHANCING MESENCHYMAL STEM CELL EXTRACELLULAR VESICLE PRODUCTION</b> Antons Miščenko, Sindija Kezika, <u>Beāte Bekere</u> , Romualds Bergmanis, Arturs Abols
12:15-12:30	<b>UV INACTIVATION STUDIES WITH ALTERNATIVE WAVELENGTHS</b> <u>G.Revalde</u> , A.Zajakina, K.Spunde, Ž. Rudeviča, A.Skudra
12:30-12:45	<b>FINITE ELEMENT METHOD MODELLING OF IRON – OXIDE NANOPARTICLE HEAT GENERATION UNDER LOW RADIO FREQUENCY FIELD CONDITIONS</b> <u>Serhat Ilgaz Yoner</u> , Alpay Ozcan
12:45-13:00	<b>EXPEDIENCY OF USING A PHYSICAL AND MATHEMATICAL MODEL IN CELL ENGINEERING</b> <u>Nataliia Moisieieva</u> , Anton Moisieiev, Olga Gorina, Yuliia Akhatova

	<b><u>Workshop 1 Summer school "Nonlinear Life".</u></b> <b>Moderator: Yuri Dekhtyar.</b>
<b>14:30-15:00</b>	<b>NANOIMMUNOLOGICAL ASPECTS OF T CELL RESPONSE IN HELICOBACTER PYLORI, GASTRIC CANCER AND GASTRIC AUTOIMMUNITY</b>  Prof. Mario Milco D'Elios
<b>15:00-15:30</b>	<b>NONLINEAR PHENOMENA IN MEDICAL IMAGING</b>  Guest of Honor, Prof. Franco Milano
<b>15:30-16:00</b>	<b>BIOMIMETIC CONTINUOUS NANOFIBERS</b>  Prof. Yuris Dzenis