



MEDICAL 3D-PRINTING AND
INNOVATIVE TECHNOLOGIES 2021

Online
Event

Additive Manufacturing in Medicine

3rd symposium

2-3 Dec.
2021

Organized by:



11:00	M3d+it - Virtual Matchmaking	
13:00	M3d+it - Opening (Day 1) Francesco Moscato, MedUni Vienna Zoltan Major, JKU	
13:05	Keynote 1 3D Food Printing, the Next Frontier of Additive Manufacturing Chua Chee Kai, SUTD	
13:30	Session 1: Additive Manufacturing R&D Technology (Research) Chair: Zoltan Major, JKU	
13:30	Laser-Based High Resolution 3D Printing for Biomedical Applications Aleksandr Ovsianikov, TU Vienna	14:00 Design and Manufacturing Strategies: From Tissue Engineering Constructs Towards Living Materials Andrés Díaz Lantada, UPM
13:45	3D Bioprinting of Human Plasma-Based Bilayered Skin Diego Velasco Bayón, UC3M	
14:15	Keynote 2 Design for Additive Manufacturing Applied to Lightweight and Biomechanical Systems Giorgio De Pasquale, POLITO	
14:40	Coffee Break M3d+it - Virtual Matchmaking	
15:00	Session 2: Additive Manufacturing R&D Technology (Industry) Chair: Johannes Homa, Lithoz	
15:00	3D-Printing-by-Design: A Solution for Next Generation Life Science Applications Jan Schrooten, Antleron	15:45 3D Printing in Orthopedics. Opportunities and Pitfalls Martin Petraschka, Kerkoc
15:15	Lithography-based Ceramic Manufacturing for Fabricating Multi-Material Components Martin Schwentenwein, Lithoz	16:00 Stratasys Digital Anatomy printer for lifelike anatomical models Arnaud Toutain, Stratasys
15:30	3D Printing Utilization in the Production of Personalized Implants Michal Sibr, Prospon	
16:15	Coffee Break M3d+it - Virtual Matchmaking	
16:35	Session 3: Clinical Use-Cases of Additive Manufacturing Chair: Christoph Staudigl, Kepler Uni.Klinikum Linz	
16:35	3D Printing Dental Implants – an Introduction of the Inkplant Project Christoph Staudigl, Kepler Uni.Klinikum Linz	17:05 Additively Manufactured Human Oral Mucosa Model for Surgical Simulation Gunpreet Oberoi, MedUni Vienna
16:50	Treatment of Meniscal and Osteochondral Defects - a Clinical Tightrope Walk Andreas Enz, MedUni Rostock	17:20 Industrialization of 3D Printed Medical Devices for Clinical Use Nicolas Bouduban, Swiss m4m Center
17:35	Short Break	
17:40	Session 4: Medical Additive Manufacturing (National Projects) Chair: Francesco Moscato, MedUni Vienna	
17:40	M3dRES: A 3D-Printing Infrastructure in a Large University Hospital: 4+ Years in Review. Francesco Moscato, MedUni Vienna	18:10 CD Lab: Advanced Biophotopolymers for Bone Healing Stefan Baudis, TU Vienna
17:50	Medusa: Hybrid Surgical Simulators: Application of 3D-Printing, Results and Requirements Andreas Schrempf, University of Applied Sciences Upper Austria	18:20 Functional Meniscus Tissue Regeneration by 3D-Bioprinting with Silk-Based Bioinks Vivek Jeyakumar, Danube Uni Krems
18:00	CAMed: In-House Manufacturing of Patient-Specific Implants Directly in the Clinic – Challenges in Clinical Process Integration Ute Schäfer, MedUni Graz	18:30 FAM-3D: Functional Anatomical 3D-Models Gernot Kronreif, ACMIT
18:40	Poster Award Ceremony Chair: Lucy Vojtová, CEITEC BUT	
19:00	M3d+it - Closing (Day 1) M3d+it - Virtual Matchmaking	

Friday,
03 December 2021

08:30	M3d+it - Opening (Day 2) Francesco Moscato, MedUni Vienna Zoltan Major, JKU	
08:35	Session 5: Medical Additive Manufacturing (International Projects) Chair: Daniel Seitz, BioMed Center Innovation Bayreuth	
08:35	INKplant: Ink-Based Hybrid Multimaterial Fabrication of Next Generation Implants Michael Kainz, PROFACTOR / Daniel Seitz, BioMed Center Innovation Bayreuth	09:50 cmRNAbone: 3D Printed-Matrix Assisted Chemically Modified RNAs Bone Regenerative Therapy for Trauma and Osteoporotic Patients Martin Stoddart, AO Research Institute Davos
08:50	GIOTTO: Active Ageing and Osteoporosis: the GIOTTO Project Approach Chiara Vitale-Brovarone, POLITO	10:05 BRAV3: Advanced Bioengineering to Unlock Cardiac Regenerative Medicine Manuel M. Mazo Vega, Universidad de Navarra
09:05	Smart Bone Regeneration (SBR): A H2020 Programme Sophia Antimisariis, University of Patras	10:20 I-SMaRD - Morphological Engineering of Bio-Minerals Using Near-IR Mode-Locked Lasers – a New Approach for Integrative Manufacturing of Hard-Soft Tissues for In-Theatre Use! Animesh Jha, University of Leeds
09:20	ADMAIORA: Smart Materials and Ultrasound for Cartilage Healing Leonardo Ricotti, Scuola Superiore Sant'Anna	10:35 TRIANKLE: 3D Bioprinted Personalised Scaffolds for Tissue Regeneration of Ankle Joint Lluís Quintana Frigola, Viscofan BioEngineering
09:35	RESTORE: Cartilage Bioprinting Technology Development Sanna Turunen, Brinter Ltd.	
10:50	Coffee Break M3d+it - Virtual Matchmaking	
11:20	Session 6: Medical Device Design & Simulation, Medical Device Implementation and Clinical Translation Chair: Gernot Kronreif, ACMIT	
11:20	Steering Cell Activity Through Biomaterials and Scaffolds Design Lorenzo Moroni, Maastricht University	11:55 AM-Certification – Status Quo, Experiences and Outlook Simon Schlagintweit, TÜV SÜD
11:40	Regulatory Requirements for 3D Printed Cranial Implants and Other Clinical Applications Martin Herzmann, Kumovis	12:15 Sustainability: 3Rs and Health Equity in Medical Devices and Technology Arti Ahluwalia, University of Pisa
12:30	Keynote 3 Toward 4D Printing of Food, Medical Materials, Gels, and Soft-matter Robots Hidemitsu Furukawa, Yamagata University	
12:55	M3d+it - Closing	
13:00	Lunch Break M3d+it - Virtual Matchmaking	

* subject to change

Conference Co-Chairs:

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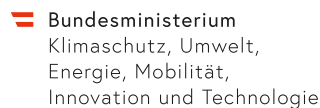
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