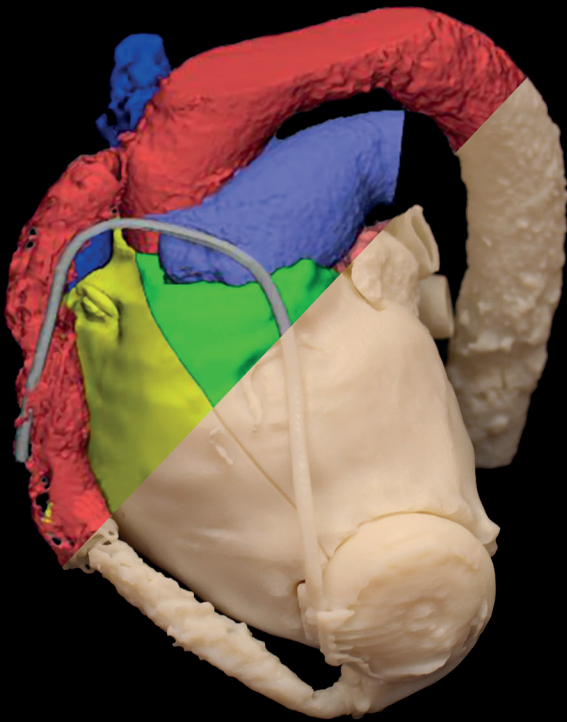




CENTER FOR MEDICAL PHYSICS
AND BIOMEDICAL ENGINEERING
MEDICAL UNIVERSITY OF VIENNA

Invitation

Additive Manufacturing in Medicine – 1st Symposium

Experts from multiple disciplines (engineering, biology and clinical science) will discuss about current applications, potential and challenges for 3D printing in medicine.

28th November 2018, 1:00 – 5:00 pm

Hörsaalzentrum, Medical University of Vienna,
Vienna General Hospital

Programme

1:00 – 1.35 pm

Opening Session

Symposium Program Chairs: Francesco Moscato,
Medical University of Vienna and Aleksandr Ovsianikov,
TU Wien

Welcome Address

Michaela Fritz, Vice Rector for Research and Innovation
of the Medical University of Vienna

Additive manufacturing in medicine: an interdisciplinary endeavour

Francesco Moscato, Medical University of Vienna

Keynote Talk

Biofabrication for joint regeneration

Jos Malda, University Medical Center Utrecht

1.35 – 3.05 pm

Session 1: Basic research

Chairs: Jürgen Stampfl, Karl Schneider

3D printing at high spatial resolution – challenges and perspectives

Aleksandr Ovsianikov, TU Wien

Surface micro-nanopatterning of 3D printed parts

Elena Guillén, Profactor

Image processing, modeling, and simulation

Dieter Pahr, TU Wien and Karl Landsteiner University of
Health Sciences

Electrospinning vascular prostheses: opportunities and bottlenecks

Christian Grasl, Medical University of Vienna

Biocompatible Photopolymers for Additive Manufacturing Applications

Stefan Baudis, TU Wien

3D Bioprinting – Bioreactors, Nano-Membranes and 3D bioprinted Tissue

Michael J. Ausserlechner, Medical University of Innsbruck

3.05 – 3.30 pm

Coffee break and posters

3.30 – 4.35 pm

Session 2: Applications

Chairs: Ewald Unger, Hermann Agis

Physicians, engineers and quality managers – Stakeholders in medical 3D printing

Martin Herzmann, Materialise

3D printing in Healthcare

Katharina Augsten, Stratasys

Patient-specific intracardiac flow models for ventricular assist device optimization

Philipp Aigner, Ludwig Boltzmann Cluster for Cardiovascular Research

Clinical experience with patient-specific 3D engineered airway stents

Thomas Schweiger, Medical University of Vienna

State of the art and potential of 3D printed ceramics in medicine

Filip Jelínek, Austrian Center for Medical Innovation and Technology

3D printing for craniomaxillofacial surgery

Florian Wagner, Medical University of Vienna

4.35 – 5.00 pm

Round Table

Are we ready for in-hospital 3D printing?

Moderators: Aleksandr Ovsianikov,
Francesco Moscato

Jos Malda, Ewald Unger, Martin Herzmann,
Katharina Augsten, Thomas Schweiger,
Florian Wagner

5.00 – 5.05 pm

Closing remarks and announcement of M3dRES Young Investigator Poster Award

5.05 pm

Networking with wine & cheese

Admission is free. To attend the symposium please register online by November 25:
www.wtz-ost.at/veranstaltungen/3d-printing-in-medicine



Hörsaalzentrum, Hörsaal 4, Floor 7
Medical University of Vienna, Vienna General Hospital
Währinger Gürtel 18–20, 1090 Vienna

Partners for the organization of the Symposium:



Please be aware that photographs and/or video footage will be taken at the event. These may be used for the purpose of documenting or reporting the event and published in print and online media, on various social media platforms and on MedUni Vienna's website.