



## 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

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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

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3.05 – 3.30 pm

#### Coffee break and posters

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CENTER FOR MEDICAL PHYSICS  
AND BIOMEDICAL ENGINEERING  
MEDICAL UNIVERSITY OF VIENNA

## Invitation

# Additive Manufacturing in Medicine – 1<sup>st</sup> Symposium

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

**28<sup>th</sup> November 2018, 1:00 – 5:00 pm**

Hörsaalzentrum, Medical University of Vienna,  
Vienna General Hospital

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](http://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.