Michael Gelinsky, FBSE

* 11. Oct. 1967, Tübingen (Germany)
Position: Professor and Head,
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Education:

1988 - 1994: Study of Chemistry, University of Freiburg/ Breisgau, Germany
1994: Diploma thesis (Inorganic Chemistry), University of Freiburg, Germany
1994 - 2001: Doctoral thesis (Bio-Inorganic Chemistry), University of Freiburg, Germany

Career:

1994 - 1998: Scientific co-worker, Institute of Inorganic and Analytical Chemistry, Albert-Ludwigs-University, Freiburg, Germany
1999 - 2002: Postdoc, Institute of Materials Science, Dresden University of Technology, Germany
2002 - 2010: Head of the research group "Tissue Engineering and Biomineralisation" at the Institute of Materials Science/Max Bergmann Center of Biomaterials (Chair of Materials Science and Nanotechnology), Dresden University of Technology, Germany
2010 - present: Full professor and head of the newly founded Centre for Translational Bone, Joint and Soft Tissue Research, Central Research Facility of Faculty of Medicine and University Hospital, Dresden University of Technology (TU Dresden), Germany

Motivation to become re-elected as an ISBF board member:

Since 1999 I am working in the field of biomaterials and tissue engineering, initially at the Institute of Materials Science and since 2010 at the Faculty of Medicine of Dresden University of Technology (TU Dresden, Germany) where I have been appointed as a full professor and head of the Center for Translational Bone, Joint and Soft Tissue Research. Also in 2010 we started with extrusion-based 3D printing in my lab, initially only for scaffold production but later also with bioprinting/biofabrication. This field of research has developed strongly in my group since then and we already have published more than 65 papers on these topics, including several in the journal *Biofabrication*. Beside our work on biomedical applications of additive manufacturing we have introduced 3D bioprinting to biotechnology: my group has been the first who printed successfully live microalgae ("*green bioprinting*", DOI 10.1002/elsc.201400205) and later also plant cells (DOI 10.1088/1758-5090/aa8854). In the meanwhile, we also have started with bioprinting of mineralizing cyanobacteria, which is of interest for the generation of "Living Construction Materials". In general, I am interested to bring the Biofabrication and the Engineered Living Materials (ELM) community closer together as both could learn from each other (DOI 10.1016/j.biotechadv.2022.107930). We are also interested in combination of biofabrication technologies (e.g. MEW and micro-extrusion: DOI 10.3390/jfb13020075). Another quite novel topic of my lab is bioprinting in space (DOI 10.1088/1758-5090/abb53a) about that we recently have organized an online workshop together with the European Space Agency ESA.

I have been elected to the ISBF Board of Directors in 2017 and I and/or my lab members have participated in all annual conferences since 2014. At the conference in Australia (online) in 2021 I was invited as plenary speaker. In the Board of the Society I have been and am especially active in the Industry Relation Committee (IRC) and organized/co-organized a number of online workshops on several topics, related to applications of biofabrication. Since beginning of 2022, I am also a member of the Editorial Board of the IOP journal *Biofabrication.*

I would like to continue to support the ISBF as a board member, trying to attract more members also from non-medical research fields and to stimulate more exchange between the disciplines.

More information about me, the lab and especially concerning our work on biofabrication can be found online on: tu-dresden.de/med/tfo.