

NOMINATION OF PROF. PAUL GATENHOLM FOR BOARD OF DIRECTORS OF INTERNATIONAL SOCIETY OF BIOFABRICATION

Professor Paul Gatenholm

*3DBioprinting Center, Department of Chemistry and Chemical Engineering,
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Paul Gatenholm, Ph.D., Professor

Dr. Gatenholm is professor of Biopolymer Technology at Chalmers University of Technology, Founder of 3D Bioprinting Center, and Director of Graduate School at WWSC. He is also Adjunct Professor at Joint School of Biomedical Engineering and Sciences at Virginia Tech and Wake Forest University and Adjunct Professor of Biomaterials at Wake Forest Institute for Regenerative Medicine in Winston-Salem, North Carolina, USA. He has been professor of Bioprocessing and Biomaterials at the Virginia Tech, Department of Materials Science and Engineering between August 2007 and April 2009. Dr. Gatenholm is a material scientist with interest in the biomimetic design of materials. His research includes biological fabrication through the use of enzymes, cells, and the

coordination of biological systems. Dr. Gatenholm is particularly interested in designing and preparing new biomaterials which can replace or regenerate tissue and organs. During past five years he has dedicated his time to development of 3D Bioprinting technology which he believes will revolutionize the field of Medicine. He has published more than 300 papers and edited several books and has more than 8000 citations. He is elected member of Swedish Royal Academy of Engineering Sciences.

Motivation for nomination:

- **Active researcher** in the field of biofabrication publishing many papers and conference proceeding with focus on bioink development and 3D Bioprinting with stem cells.
- Member of Editorial Board of journal Biofabrication and frequent reviewer of papers. Publishes in Biofabrication.
- Actively participating in Biofabrication meetings, reviewing abstracts, chairing sessions, presenting papers.
- Contributing to Translation of biofabrication technology, particularly 3D Bioprinting to clinic (plastic surgery, diabetes treatment)

<https://techcrunch.com/2017/03/24/3d-printed-cells/>

- **Entrepreneur and innovator:** created technology which has been commercialized by CELLINK www.cellink.com

Founder and CEO of CELLHEAL AS and CELLHEAL LLC which develops clinical applications of stems cell using 3D Bioprinting

<https://www.med.uio.no/hth/english/news-and-events/news/3dbioprinting.html>

- **Education and outreach:** created master course in Sweden on Tissue Engineering with almost 40 students. The course focuses on 3D Bioprinting technology to treat diseases such as; osteoarthritis, diabetes, wounds, bone fractures and neurodegenerative disorders. Organized successful 3D Bioprinting Workshop for students and postdocs at Stanford 2015 and preparing to workshops; on 3D Bioprinting with Stem Cells, and 3D Bioprinting in Space. <https://www.chalmers.se/en/areas-of-advance/materials/news/Pages/3D-Bioprinting-Workshop-at-Stanford.aspx>