

# Håvard J Haugen

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## About Håvard J Haugen

Håvard J. Haugen is currently professor and leader of the Biomaterials group at The Institute of Clinical Dentistry, Faculty of Dentistry, University of Oslo. He received a Master in chemical engineering at the Imperial College of Science, Technology and Medicine in London, UK in 2001 and a doctoral engineering in biomaterials from the Technische Universität München in 2004. Previously Haugen has been working at the Central Institute for Medical Engineering in Munich (2001-2004), at Helmholtz Institute for Biomedical Engineering in Aachen (1999) and the Tissue Engineering Centre at Imperial College, London (2000-2001).

Haugen has been granted more than 15 million Euros in various research grants the past five years from both the European Research Council and the Research Council of Norway. Haugen has > 135 publications, H-index 31, and has supervised dozens of PhD students. From 2012-2016 Haugen was the President of the Scandinavian Society for Biomaterials ([www.scsb.eu](http://www.scsb.eu)).

The research group of Prof. Haugen bridges the gap between basic materials research and clinical treatment. His group is highly interdisciplinary with extensive experience in dental biomaterials development, modification of biomaterials, soft tissue and hard tissue regeneration and integration of biomaterials into hard tissues, using methods from biomaterials, odontology, and biochemistry. His group currently has and operates advanced nanoscale X-ray imaging systems. Haugen is also involved with commercialisation of medical devices and is currently working part time at Corticalis AS ([www.corticalis.com](http://www.corticalis.com)) where he and his colleagues have patented and launched commercially several products in the dental field.

### **Research interests:**

Dental implants, debridement of infected implants, surface modification, bone scaffold, X-ray imaging

### **Research areas**

Biomaterials, Biomaterials Science, Medical Biotechnology, Cell and molecular biology, Dentistry, Orthopaedics

The biomaterial field has had an immersive progress since I started in this discipline as PhD student in 2001. The ESB has also grown significantly from my very first ESB meeting in Stuttgart 2003. Now biomedical scientists use chemistry-driven processes found in nature as an inspiration to design biomaterials and as promising diagnostic tools, therapeutic solutions, or tissue substitutes. While substantial research has been devoted to the design and validation of biomaterials, the nature of their interactions with the surrounding biological microenvironment is now something many groups are investigating. Although ESB is much about the science, ESB is also a great meeting place and interactive platform. Some of the other PhD students that I met at my very first ESB meeting are now my closest collaborators. ESB as a meeting place of young scientists and platform for future collaborations would be one of my strongest cases if elected. As past President of the Scandinavian Society of Biomaterials, I believe that it is time that Scandinavian's involvement and expertise are to be presences on ESB council