

## About Hannover

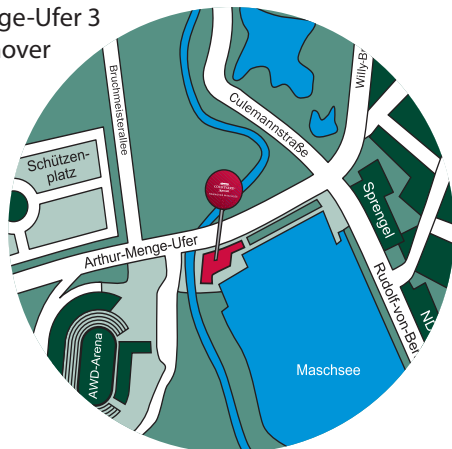
Hannover, one of the greenest cities in Europe, has a long historical tradition. The capital of Lower Saxony, with around 500,000 inhabitants, has many attractions such as the royal baroque gardens in Herrenhausen (winner of the European Garden Award 2015), the Maschsee Lake, the Hannover Adventure Zoo and the Eilenriede city forest, Hannover's 'green lung'.

There are also a number of museums dedicated to modern art and design, as well as cultural institutions exploring Hannover's historical background, including the Gottfried Wilhelm Leibniz library. Hannover is a friendly city with many pubs, a car-free historic center and numerous shopping facilities.

The Leibniz Universität Hannover is one of Germany's TU9 universities. Hannover is also home of the Hannover Medical School and the University of Veterinary Medicine. Hannover can boast a thriving scientific community.

## Venue

Courtyard Hannover Maschsee  
Arthur-Menge-Ufer 3  
30169 Hannover  
Germany



## Further Information

Please visit our conference website at:  
[www.icbt-hannover.com](http://www.icbt-hannover.com)  
for submission, registration or other information.

## Conference Organizers

Thomas Lenarz  
Department of Otolaryngology  
Hannover Medical School

Udo Nackenhorst  
Institute of Mechanics and Computational Mechanics  
Leibniz Universität Hannover

Meike Stiesch  
Department of Prosthetic Dentistry and Biomedical  
Materials Science  
Hannover Medical School

Peter Wriggers  
Institute of Continuum Mechanics  
Leibniz Universität Hannover

## Secretary

Waldo Nogueira  
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Hannover Medical School

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# ICBT 2023

## 5<sup>th</sup> International Conference on Biomedical Technology

06<sup>th</sup> – 08<sup>th</sup> November 2023  
Hannover, Germany



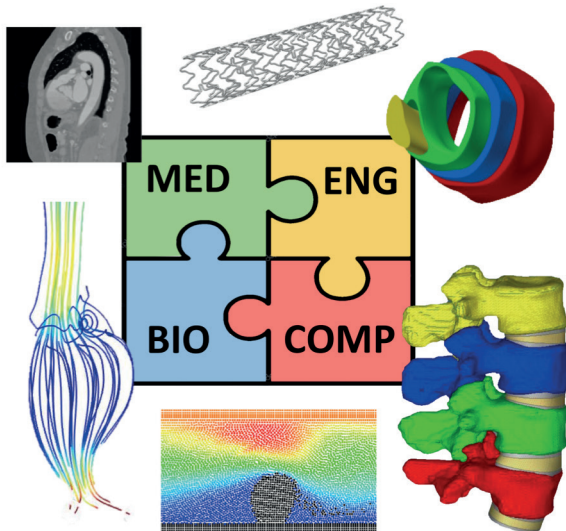
## Objectives

The V International Conference on Biomedical Technology will be held in Hannover from 6<sup>th</sup> to 8<sup>th</sup> of November 2023. The meeting is organized under the auspices of ECCOMAS, and of the Clusters of Excellence PhoenixD, Rebirth and Hearing4All, and the research center for medical implants NIFE.

### Technology meets Medicine

Recent advancements in technology speed up the development of novel tools for supporting diagnostic assessments and the optimization of medical devices for improving clinical approaches. Nevertheless, tailoring of technological developments in Engineering with clinical approaches in Medicine necessitates a thorough understanding of all processes involved and an intensive exchange of information between specialists from different disciplines.

This conference brings together scientists from areas of medicine, engineering, computer and natural sciences. It will focus on the study of living and biological systems, the development and fabrication of new implants, and complications of patient-specific medicine.



## Conference Topics

1. Modeling of various organ systems as a basis for therapy with medical implants
2. Diagnostic models and patient-specific decision algorithms
3. Prediction models for disease progression and treatment alternatives - clinical decision support systems
4. Influence of digitalization on early disease detection, diagnosis and diagnostic process, therapy decision and therapy as well
5. AI in medicine, Big Data, National Cohort and Biobank and their role in personalized medicine and rehabilitation

## Important Dates

Deadline for submitting a two-page abstract:	July 31 <sup>st</sup> , 2023
Acceptance of contributions for oral presentation:	August 25 <sup>th</sup> , 2023
Deadline for early payment:	September 15 <sup>th</sup> , 2023

## Registration

	Early	Late	Dayticket
Delegates	520 €	620 €	250 €
Students	330 €	380 €	150 €

The early registration fees are applied before September 15<sup>th</sup>, 2023.

ECCOMAS members receive a 5% reduction on the delegates' fee.

## International Scientific Committee

- *Ferdinando Auricchio, Pavia, Italy*
- *Tonio Ball, Freiburg, Germany*
- *Deniz Baskent, Groningen, The Netherlands*
- *Yuri Bazilevs, Providence, USA*
- *Klaus Boehncke, Munich, Germany*
- *Robert Carlyon, Cambridge, UK*
- *Marco Caversaccio, Bern, Switzerland*
- *Elias Cueto, Zaragoza, Spain*
- *Simon Doclo, Oldenburg, Germany*
- *Olaf Dössel, Karlsruhe, Germany*
- *Johannes Frijns, Leiden, The Netherlands*
- *Christian Gasser, Stockholm, Sweden*
- *Werner Hemmert, Munich, Germany*
- *Ulrich Hoffmann, Freiburg, Germany*
- *Gerhard Holzapfel, Graz, Austria*
- *Antoni Ivorra, Barcelona, Spain*
- *Birger Kollmeier, Oldenburg, Germany*
- *Ellen Kuhl, Stanford University, USA*
- *Enrique Lopez Poveda, Salamanca, Spain*
- *Michele Marino, Rome, Italy*
- *Manuel Manrique, Madrid, Spain*
- *Brian C.J. Moore, Cambridge, UK*
- *Klaus-Robert Müller, Berlin, Germany*
- *Matthias Munk, Tübingen, Germany*
- *Hermann Requardt, Germany*
- *Tim Ricken, Stuttgart, Germany*
- *Oliver Röhrle, Stuttgart, Germany*
- *Dominik Schillinger, Darmstadt, Germany*
- *Tanja Schulz, Bremen, Germany*
- *Thomas Stieglitz, Freiburg, Germany*
- *David Suter, Perth, Australia*
- *Sabine van Huffel, Leuven, Belgium*
- *Ursula van Rienen, Rostock, Germany*
- *Deborah Vickers, Cambridge, UK*
- *Jan Wouters, Leuven, Belgium*
- *Tarek Zhodi, Berkeley, USA*

## Local Organizing Committee

- *Andreas Büchner, Hannover Medical School*
- *Andreas Greuling, Hannover Medical School*
- *Boris Chichkov, Leibniz Universität Hannover*
- *Thomas Lenarz, Hannover Medical School*
- *Hannes Maier, Hannover Medical School*
- *Udo Nackenhorst, Leibniz Universität Hannover*
- *Waldo Nogueira, Hannover Medical School*
- *Bodo Rosenhahn, Leibniz Universität Hannover*
- *Meike Stiesch, Hannover Medical School*
- *Peter Wriggers, Leibniz Universität Hannover*