

Thursday, June 18, 2026

10:00 AM

Registration & Coffee

12:00 - 12:30 AM

Opening Remarks



Wolfram-Hubertus Zimmermann, MD Chair, Institute of Pharmacology and Toxicology University Medical Center Göttingen Göttingen, Germany



Jianyi (Jay) Zhang, MD, PhD
Chair, Department of Biomedical Engineering
T. Michael and Gillian Goodrich Endowed Chair of Engineering Leadership
Professor of Medicine, of Engineering
School of Medicine, School of Engineering
UAB | The University of Alabama at Birmingham
USA



Rabea Hinkel, DVM, PhD
Speaker, DZHK Partner Site Lower Saxony
Head, Laboratory Animal Science and Pathology
German Primate Center (DPZ)
Göttingen, Germany



Constanze Schmidt, MD
Director, Clinic for Cardiology and Pneumology
University Medical Center Göttingen
Germany



Ke Chang, PhDChair, AHA CVBE Council
Alan L. Kaganov Professor of Biomedical Engineering
Columbia University
New York, USA

12:30 – 14:40 Session I – The Foundation : Developmental Biology

MODERATORS: Alessandra Moretti, Malte Tiburcy

12:30 - 12:50



Protein Aggregation in the Heart

Thomas Braun, MD, PhD

Director, Max-Planck-Institute of Heart and Lung Research, Bad Nauheim,
Department of Cardiac Development and Remodeling
Full Professor, Univ. of Gießen, Medical Faculty, Dept. of Internal Medicine

12:50-13:10



Core mechanisms that regulate cardiac regeneration across vertebrate species Paul Riley, PhD

BHF Professor of Regenerative Medicine
Chair of Development and Cell Biology
Institute of Developmental & Regenerative Medicine

13:10 - 13:30 AM



Cell Competition in Heart Development - A story of winners and losers Miguel Torres, PhD
Professor, Cardiovascular Development Program,
Centro Nacional de Investigaciones Cardiovasculares (CNIC)
Madrid, Spain

14:00 - 14:20



Regulation of Cardiac Maturation

Nicole Dubois, PhD

Associate Professor Cell, Developmental and Regenerative Biology
Department of Cell, Developmental and Regenerative Biology,
Icahn School of Medicine at Mount Sinai
New York, USA

14:20 - 14:40



Maturing ventricular cardiomyocytes in vitro and in vivo

Lei Ye, PhD

Associate Professor, Department of Biomedical Engineering
School of Engineering | Heersink School of Medicine
UAB | The University of Alabama at Birmingham
USA

14:40 - 15:00 PM

Coffee Break

15:00 - 16:40 PM

Session II - Bioengineered Heart Modelling

MODERATORS: Miguel Torres, Nicole Dubois

15:00 - 15:20



Heart – Skeletal Muscle Cross-Talk

Malte Tiburcy, MD

Group Leader
Institute of Pharmacology and Toxicology
University Medical Center Göttingen
Göttingen, Germany

15:20 - 15:40



Modelling Repair by Cell Supplementation in Cardiac Organoids

Alessandra Moretti, PhD

Professor, Regenerative Medicine of Cardiovascular Diseases
TU München

Germany

15:40 - 16:00



Modelling Cardiac Hypertrophy in Cardiac Organoids
Sakthivel Sadayappan, PhD, MBA
Professor and Department Head, Cellular and Molecular Medicine
Associate Director, Sarver Heart Center
Czarina M. & Humberto S. Lopez Endowed Chair

16:00 - 16:20



ESCAPE Bioengineering
Christopher Chen, MD, PhD
Founding Director, Biological Design Center
William F. Warren Distinguished Professor of Boston University
The Wyss Institute for Biologically Inspired Engineering at Harvard University
Boston, USA

16:20 - 16:40



Engineering Vascularized Heart Muscle Tissue
Milica Radisic, PhD
Institute of Biomedical Engineering
University of Toronto
Ontario, Canada

16:40 - 16:50



Behind the Scene at Nature Medicine
Michael Basson, PhD
Senior Editor
Nature Medicine

16:50 – 19:00 Poster Viewing (Posters will be at display on June 18th to June 20th)

19:00 BBQ at German Primate Center

Friday, June 19, 2026

NOBEL-LAUREAT LECTURE

Moderator: Wolfram Zimmermann

9:00 - 9:40 AM



Breaking Optical Barriers

Stefan Hell, PhD

Director, Department NanoBiophotonics

Max Planck Institute for Multidisciplinary Sciences
Göttingen, Germany

9:40 - 10:00 AM

Coffee Break

10:00 - 11:40 AM

Session III - Modelling and Simulations

MODERATORS: Ke Chang, Milica Radisic

10:00 - 10:20 AM



Modelling Cardiac Repair

David Nordsletten, DPhil

Professor, Biomedical Engineering and Cardiac Surgery
University of Michigan
Ann Arbor. USA

10:20 - 10:40 AM



Virtual Drug Screens

Jeff Saucerman, PhD

Professor, Biomedical Engineering
Department of Biomedical Engineering, University of Virginia Charlottesville, VA, USA

10:40 - 11:00 AM



Physics-Informed Neural Networks to Predict Outcome of Cardiac Interventions **Eberhard Bodenschatz, PhD**Director, Max Planck Institute for Dynamics and Self-Organization (MPIDS), Göttingen

11:00 - 11:20 AM



Modelling of Electrical Heterogeneity in Cardiac Remuscularization

Blanca Rodriguez, PhD

Professor in Computational Medicine

Department of Computer Science, British Heart Foundation Centre of Research

Excellence, University of Oxford, Oxford, UK

11:20 - 11:40 AM



Cardiac Atlas Project
Andrew McCulloch, PhD
Distinguished Professor of Bioengineering and Medicine
Shu Chien Chancellor's Endowed Chair in Engineering and Medicine
Director, Institute for Engineering in Medicine
University of California San Diego
La Jolla, USA

11:40 - 13:00 PM

Lunch Break

13:00 - 14:40 PM

Session IV – Gene/Nucleotide Therapies

MODERATORS: Ricardo Sanz, Yajing Wang

13:00 - 13:20 PM



LNP delivered gene therapies for heart repair Mauro Giacca, MD, PhD
Professor, School of Cardiovascular Medicine King's College London

13:20 - 13:40 PM



miR-therapeutics in heart failure
Thomas Thum, MD, PhD
Director, Institute of Molecular and
Translational Therapeutic Strategies
Medizinische Hochschule Hannover (MHH)
Hannover, Germany

13:40 - 14:00 PM



PKP2 restauration in arrhythmic cardiomyopathy **Eva van Rooij, PhD**Professor, Molecular Cardiology at the University Medical Center Utrecht
And Hubrecht Institute
Utrecht, the Netherlands

14:00 - 14:20 PM



Non-coding RNA in the regulation of smooth muscle proliferation Andy Baker, MD, PhD

Professor, Centre for Cardiovascular Science, The Queen's Medical Research Institute, University of Edinburgh, EH16 4TJ Edinburgh, UK; CARIM School for Cardiovascular Sciences, Department of Pathology, Maastricht University Medical Center (MUMC), 6229HX Maastricht, the Netherlands

14:20 - 14:40 PM



Switching on cardiomyocyte renewal by YAP activation James Martin, MD, PhD

Vice Chairman/Professor Molecular Physiology and Biophysics and Vivian L. Smith Chair in Regenerative Medicine, Baylor College of Medicine, Houston, USA Cardiomyocyte Renewal Laboratory, Texas Heart Institute, Houston, USA

15:00 - 16:20 PM

Session V – Heart Repair in Clinical Trials

MODERATORS: Massimiliano Gnecchi, Rabea Hinkel

15:00 - 15:20 PM



Clinical Observations from ESCORT to SECRET-HF
Philippe Menasché, MD, PhD
Professor Philippe Menasché
Service as Department of Cardiovascular Surgery
Hôpital Européen Georges Pompidou

15:20 - 15:40 PM



HEAL-CHF: Clinical Trial **Eugene J Wang, MD, PhD**Founder & CEO, Help Therapeutics Co., Ltd.

15:40 - 16:00 PM



LAPiS: Clinical Trial

Keiichi Fukuda, MD, PhD

Professor, Department of Regenerative Medicine and Advanced Cardiac
Therapeutics, Graduate School of Medicine, Keio University

16:00 - 16:20 PM



BioVAT-HF: Clinical Trial
Wolfram-Hubertus Zimmermann, MD
Chair, Institute of Pharmacology and Toxicology
University Medical Center Göttingen
Göttingen, Germany



Evolution of Stem Cell Clinical Trials

Ricardo Sanz Ruiz, MD, PhD

University Hospital Gregorio Maranon, Madrid (Spain)



16:40 – 16:50 PM

Behind the Scene at Science
Joana Osório, PhD

Senior Editor
Science

16:50 – 18:00 PM Poster Viewing (Posters will be at display on June 18th - 20th)

Session VI - Early Career Researcher Presentations - selected from submitted abstracts

Moderators:



Chloe Wilson, MD Senior Editor Lancet



Michael Basson, PhD Senior Editor Nature Medicine



18:00 - 18:07

Joana Osório, PhD Senior Editor Science

Rapid Fire Presentation (5 min presentation + 2 min discussion)

 18:07 - 18:14
 TBD

 18:14 - 18:21
 TBD

 18:21 - 18:28
 TBD

 18:28 - 18:35
 TBD

 18:35 - 18:42
 TBD

 18:42 - 19:00
 Panel Discussion: Michael Basson, Patrick Ching-Ho Hsieh, Joana Osório, Ricardo Sanz, Chloe Wilson, Jay Zhang, Wolfram Zimmermann

19:00 - Conference Dinner

TBD

Saturday, June 20, 2026

NOBEL-LAUREAT LECTURE

Moderator: Constanze Schmidt

9:00 - 9:40 AM



Discovery and Targeting of Ion Currents

Erwin Neher, PhD

Director, Department Membrane Biophysics

Max Planck Institute for Multidisciplinary Sciences
Göttingen, Germany

9:40 - 10:00 PM

Coffee Break

10:00 - 11:40 PM

Session VII - Nanopharmacology

MODERATORS: Patrick Ching-Ho Hsieh, Pilar Alcaide

10:00 - 10:20



Nanoparticle Delivery of Cardiac Therapeutics
Ke Chang, PhD
Chair, AHA CVBE Council
Alan L. Kaganov Professor of Biomedical Engineering
Columbia University
New York, USA

10:20 - 10:40



Stem cell-derived small extracellular vesicles in heart repair Xinyang Hu, MD, PhD

Professor, Cardiovascular Key Laboratory of Zhejiang Province and Department of Cardiology, Second Affiliated Hospital, College of Medicine, Zhejiang University, Hangzhou 310009, PR China

10:40 - 11:00



Atrial tattoos lines: a new method to terminate atrial fibrillation

Constanze Schmidt, MD

Director, Clinic for Cardiology and Pneumology, University Medical Center
Göttingen

11:00 - 11:20



Mesenchymal Stem Cell derived Extracellular Vesicles for Heart Repair

Massimiliano Gnecchi, MD, PhD

Director of the Research and Clinical Laboratories of the Department of Cardiology in Pavia

11:20 - 11:40



Delivery of CRISPR/Cas by Extracellular Vesicles

Joost Sluijter, PhD

Professor, Circulatory Health Laboratory, Regenerative Medicine Center, University
Medical Center Utrecht, University Utrecht, Utrecht, The Netherlands

11:40 - 13:00 PM

Lunch Break

13:00 - 15:20 PM

Session VII - Proliferation in the Heart

MODERATORS: Thomas Braun, Eva can Rooij

13:00 - 13:20



Protein Signature in proliferative cardiomyocytes

Jianyi (Jay) Zhang, MD, PhD

Chair, Department of Biomedical Engineering

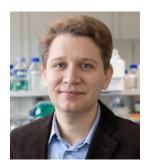
T. Michael and Gillian Goodrich Endowed Chair of Engineering Leadership

Professor of Medicine, of Engineering

School of Medicine, School of Engineering

UAB | The University of Alabama at Birmingham, USA

13:20 - 13:40



Latent Cardiomyocyte Regeneration Potential in Human Heart Disease
Olaf Bergmann, MD, PhD
Group Leader, Institute of Pharmacology and Toxicology, University Medical
Center Göttingen

13:40 - 14:00



Inducing Cytokinesis in Cardiomyocytes

Hesham Sadek, MD, PhD

Division of Cardiology, University of Arizona College of Medicine, Tucson, AZ, USA;
Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain;
University of Arizona Sarver Heart Center, Tucson, AZ, USA

14:00 - 14:20



The immunopeptidome landscape of the heart in health and injury **Eldad Tzahor, PhD**Professor, Faculty of Biology, Department of Molecular Cell Biology
Faculty of Biology, The Helen and Martin Kimmel Institute for Stem Cell Research, Weizmann Institute. Israel

14:20 - 14:40



Nanoparticle Delivery to Modulate Heart Repair

Patrick Ching-Ho Hsieh, MD, PhD

Professor, Institute of Biomedical Sciences and
Institute of Medical Genomics and Proteomics and Institute of Clinical Medicine,
National Taiwan University College of Medicine, Taipei, Taiwan

14:40 - 15:00 PM

Coffee Break

15:00 - 17:00 PM

Session VII - Intercellular/organ Cross-Talk

MODERATORS: Pilar Alcaide, Eldad Tzahor

15:00 - 15:20



Mechanisms driving microvascular inflammation Rabea Hinkel, DVM, PhD
Head, Laboratory Animal Science and Pathology German Primate Center (DPZ)
Göttingen, Germany

15:20 - 15:40



Nanoparticle-Directed Precision Gene Therapy
Youyang Zhao, PhD
William G. Swartchild, Jr. Distinguished Research Professor
Head, Section for Injury Repair and Regeneration Research
Lurie Children's Hospital of Chicago; Departments of Pediatrics, Pharmacology, and
Medicine, Northwestern University Feinberg School of Medicine

15:40 - 16:00



Crosstalk between Heart and Immune System
Pilar Alcaide, MD, PhD
Professor and Vice Chair, Microbiology and Immunology
Miller School of Medicine
University of Miami, USA

16:00 - 16:20 PM



Adipocyte-derived small extracellular vesicles promote cardiomyocyte apoptosis Yajing Wang, PhD
Professor
Director of Basic and Translational Research
Department of Biomedical Engineering
University of Alabama at Birmingham, USA

16:20 - 16:30



Behind the Scene at Lancet
Chloe Wilson, MD
Senior Editor
Lancet

Concluding Remarks



Jay Zhang, MD, PhD
Chair, Department of Biomedical Engineering
T. Michael and Gillian Goodrich Endowed Chair of Engineering Leadership
Professor of Medicine, of Engineering
School of Medicine, School of Engineering
UAB | The University of Alabama at Birmingham



Wolfram-Hubertus Zimmermann, MD Chair, Institute of Pharmacology and Toxicology University Medical Center Göttingen Göttingen, Germany

CVBE 2027

Welcome to Taipei, Taiwan



Patrick Ching-Ho Hsieh, MD, PhD
Professor, Institute of Biomedical Sciences and
Institute of Medical Genomics and Proteomics and Institute of Clinical Medicine,
National Taiwan University College of Medicine, Taipei, Taiwan

CVBE 2026

REGISTRATION

QR

https://www.xxxxx.de/cvbe2026/

June 18th – June 20th, 2026

While there is no fee to participate in the Symposium, registration is necessary.

Please complete the form before April 1, 2026. Thank you.

Location and direction





HOTEL RECOMMENDATIONS

- B&B Hotel Göttingen-City Faculty Hotel Maschmühlenweg 19-21, 37073 Göttingen
- PREIGeist Göttingen
 Berliner Straße 30, 37073 Göttingen
- 3 GHOTEL hotel & living Bahnhofsallee 1a. 37073 Göttingen
- 4 Hotel Central
 Jüdenstraße 12, 37073 Göttingen
- 5 Romantikhotel Gebhards
 Goethe-Allee 22-23, 37073 Göttingen

EVENING EVENTS

- Get together and BBQ at German Primate Center Kellnerweg 4, 37077 Göttingen
- B Amavi Pure and Wild Güterbahnhofstraße 10, 37073 Göttingen
- © Bremers Weinkellerei Obere Karspüle 42, 37073 Göttingen