



DZHK

Deutsches Zentrum für
Herz-Kreislauf-Forschung

**10TH CARDIOVASCULAR
BIOENGINEERING (CVBE)
SYMPOSIUM 2026**

JUNE 18TH - JUNE 20TH

German Primate Center, Kellnerweg 4, 37077 Göttingen

WELCOME

on behalf of
the organizing team



Jay Zhang
Jay Zhang



Wolfram Zimmermann
Wolfram Zimmermann

Welcome to CVBE 2026 in Göttingen:

Cardiovascular bioengineering combines fundamental, translational, and clinical investigations aiming to repair the failing heart and vasculature. The year 2026 marks the decennium of the CVBE meeting.

We are proud that pioneers in cardiovascular bioengineering are joining us again in Göttingen to discuss novel findings in developmental biology, in vitro and in silico modelling, regenerative intercellular cross-talk, proliferation in the mostly post-mitotic heart, gene and nucleotide therapies, and late breaking early clinical trial results. At the same time, we will provide a platform for Early Career Investigators to present their innovative research to the cardiovascular bioengineering community and renowned editors from top-tier journals. Moreover, two inspiring Nobel Price Laureates from Göttingen will share their road to their sea change discoveries.

The CVBE meeting was spun out from the NHLBI Progenitor Cell Translational Consortium (PCTC) with a track record of exciting meetings held in North America, Asia, Australia, and Europe, fostering open exchange of expert knowledge and fruitful collaborations. We are proud to contribute to its legacy by holding the 10th CVBE Meeting in Göttingen, a city with a rich history of scientific excellence since the foundation of the Georg-August University in 1737 by the King Georg II of the British Empire. As a member of the DZHK (German Center for Cardiovascular Research) since its inception in 2011, the cardiovascular community is dedicated to translating innovative heart failure diagnostics and therapeutics based in experimental evidence into first-in-patient studies to protect and repair the failing heart.

We look forward to welcome you in Göttingen and celebrate a decennium of the CVBE Meeting.

THURSDAY, June 18th, 2026

Foto: Manfred Eberte, DPZ



GERMAN PRIMATE CENTER

Kellnerweg 4 - 37077 Göttingen

09:00 am Registration & Coffee & Poster Set-Up

12:00 am Opening Remarks
Wolfram-Hubertus Zimmermann | Jay Zhang
Rabea Hinkel | Constanze Schmidt | Ke Cheng

Chairs: Alessandra Moretti | Malte Tiburcy

Session I: The Foundation - Developmental Biology

12:30 pm Protein Aggregation in the Heart
Thomas Braun

12:50 pm Regeneration of the cardiac conduction system
Paul Riley

01:10 pm Regulation of Cardiac Maturation
Nicole Dubois

01:30 pm Human induced pluripotent stem cell derived nano-vesicles for cardiomyocyte protection and proliferation
Lei Ye

THURSDAY, June 18th, 2026

01:50 pm Coffee Break

Chairs: Nicole Dubois

Session II: Bioengineered Heart Modelling

02:40 pm Collagen VI-related dystrophy in heart and skeletal muscle models
Malte Tiburcy

03:00 pm Modeling Human Heart Development and Regeneration with Epicardioids
Alessandra Moretti

03:20 pm Alternative Splicing and Therapeutic Aspects in Hypertrophic Cardiomyopathy
Sakthivel Sadayappan

03:40 pm 3D culture models of cardiovascular physiology and disease
Christopher Chen

04:00 pm Behind the Scene at Nature Medicine
Michael Basson

04:30 pm Poster Viewing
(Posters will be at display from June 18th to June 20th)

07:00 pm Get together and BBQ at German Primate Center

FRIDAY, June 19th, 2026



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GÖTTINGER GÄNSELIESEL

Moderators: Wolfram-Hubertus Zimmermann

09:00 am **NOBEL LAUREATE LECTURE**
Breaking Optical Barriers
Stefan Hell

09:40 am Coffee Break

Chairs: Ke Cheng | Constanze Schmidt
Session III: Modelling and Simulations

10:00 am Modelling Cardiac Repair
David Nordsletten

10:20 am Mechanistic machine learning for cardiac drug
repurposing
Jeff Saucerman

10:40 am Extruding ECM
Eberhard Bodenschatz

FRIDAY, June 19th, 2026

- 11:00 am Cardiac therapeutics evaluation using AI-enabled modelling and simulation
Blanca Rodriguez
- 11:20 am Cardiac Atlas Project
Andrew McCulloch
- 11:40 am Group Photo followed by Lunch

Chairs: Ricardo Sanz | Yajing Wang
Session IV: Gene/Nucleotide Therapies

- 01:00 pm RNA therapies for cardiac repair and regeneration
Mauro Giacca
- 01:20 pm Noncoding RNA-based treatments for cardiovascular diseases
Thomas Thum
- 01:40 pm Gene therapy approaches for genetic cardiomyopathy
Eva van Rooij
- 02:00 pm Nanoparticle Delivery to Modulate Heart Repair
Johnny Kim
- 02:20 pm Nucleic acid therapies to prevent adverse vascular remodelling
Andy Baker
- 02:40 pm Coffee Break

Chairs: Massimiliano Gnecci | Rabea Hinkel
Session V: Heart Repair in Clinical Trials

- 03:00 pm Clinical Observations from ESCORT to SECRET-HF
Philippe Menasché

FRIDAY, June 19th, 2026

- 03:20 pm Intramyocardial Injections of Allogenic Human Induced Pluripotent Stem Cells-derived Cardiomyocytes for Advanced Ischemic Heart Failure: The HEAL-CHF Trial
Eugene J Wang
- 03:40 pm Clinical trial of iPS cell-derived cardiomyocyte spheroid transplantation to severe heart failure patients due to ischemic heart disease
Keiichi Fukuda
- 04:00 pm BioVAT-HF: Clinical Trial
Wolfram-Hubertus Zimmermann
- 04:20 pm The CATO Clinical Trial
Roberto Bolli
- 04:40 pm Evolution of Stem Cell Clinical Trials
Ricardo Sanz Ruiz
- 05:00 pm Behind the Scene at Science
Joana Osório

05:20 pm Poster Viewing
(Posters will be at display from June 18th to June 20th)

Chairs: Cloe Wilson | Michael Basson | Joana Osório

**Session VI: Early Career Researcher Presentations
selected from submitted abstracts**

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

06:20 pm	TBD	06:41 pm	TBD
06:27 pm	TBD	06:48 pm	TBD
06:34 pm	TBD	07:05 pm	TBD

07:12 pm Panel Discussion

07:30 pm Conference Dinner & Get together at Forum Wissen

SATURDAY, June 20th, 2026



CVBE GÖTTINGEN 2022

Moderators: Constanze Schmidt

09:00 am **NOBEL LAUREATE LECTURE**
Patch Clamp: An early example of Bioengineering
Erwin Neher

09:40 am Coffee Break

Chairs: Patrick Ching-Ho Hsieh | Pilar Alcaide

Session VII: **Nanopharmacology**

10:00 am RNA nanomedicine for heart repair
Ke Cheng

10:20 am Engineered immunosuppressive dendritic cells protect
against cardiac remodeling
Xinyang Hu

10:40 am Atrial tattoos: a new method to terminate atrial fibrillation
Constanze Schmidt

SATURDAY, June 20th, 2026

- 11:00 am Mesenchymal Stem Cell-derived Extracellular Vesicles for Heart Repair
Massimiliano Gneccchi
- 11:20 am Extracellular-vesicle based cardiac delivery
Joost Sluijter
- 11:40 am Lunch Break

Chairs: Xinyang Hu | Eldad Tzahor

Session VIII: Proliferation in the Heart

- 01:00 pm FoxM1 promotes cardiomyocyte regeneration in mammalian hearts with post-infarction LV remodeling
Jianyi (Jay) Zhang
- 01:20 pm Latent Cardiomyocyte Regeneration Potential in Human Heart Disease
Olaf Bergmann
- 01:40 pm Switching on cardiomyocyte renewal by YAP activation
James Martin
- 02:00 pm Nanoparticle Delivery to Modulate Heart Repair
Patrick Ching-Ho Hsieh
- 02:20 pm Coffee Break

Chairs: Thomas Braun | Eva van Rooij

Session IX: Intercellular/Interorgan Cross-Talk

- 02:40 pm Mechanisms driving microvascular inflammation
Rabea Hinkel

SATURDAY, June 20th, 2026

- 03:00 pm Unraveling immune repair mechanisms of the heart
Eldad Tzahor
- 03:20 pm Immune cell- cardiac stroma crosstalk in heart failure
Pilar Alcaide
- 03:40 pm When Fat Talks to the Failing Heart: Diabetic Adipocyte
Signaling as a Driver of Cardiac Mitochondrial
Dysfunction
Yajing Wang
- 04:00 pm Publishing at The Lancet
Chloe Wilson
- 04:20 pm Presentation of Awards and Concluding Remarks
Jay Zhang and Wolfram-Hubertus Zimmermann

Welcome to Taipei CVBE2027
Patrick Ching-Ho Hsieh

FACULTY

Pilar Alcaide, MD, PhD

University of Miami, Miami, United States

Michael Basson, PhD

Nature Medicine, New York, United States

Andy Baker, MD, PhD

University of Edinburgh, Edinburgh, United Kingdom
Maastricht University Medical Center, Maastricht,
the Netherlands

Olaf Bergmann, MD, PhD

University Medical Center Göttingen,
Göttingen, Germany

Eberhard Bodenschatz, PhD

Max-Planck-Institute for Dynamics and
Self-Organization, Göttingen, Germany

Roberto Bolli, MD

University of Louisville, Louisville, United States

Thomas Braun, MD, PhD

Max-Planck-Institute for Heart and Lung
Research, Bad Nauheim, Germany

Ke Cheng, PhD

Columbia University, New York, United States

Chris Chen, MD, PhD

Harvard University, Boston, United States

Nicole Dubois, PhD

Icahn School of Medicine at Mount Sinai,
New York, United States

Keiichi Fukuda, MD, PhD

HeartSeed, Tokyo, Japan

Mauro Giacca, MD, PhD

King's College London, London, United Kingdom

Massimiliano Gnecci, MD, PhD

Translational Cardiology, Department of Molecular
Medicine, University of Pavia, Italy

Stefan Hell, PhD

Max Planck Institute for Multidisciplinary Sciences,
Göttingen, Germany

Patrick Ching-Ho Hsieh, MD, PhD

National Taiwan University College of Medicine,
Taipei, Taiwan

Rabea Hinkel, DVM, PhD

German Primate Center Göttingen,
Göttingen, Germany

Xinyang Hu, MD, PhD

Zhejiang University, Hangzhou, China

Johnny Kim, PhD

TRON, Mainz, Germany

James F. Martin, MD, PhD

Baylor College of Medicine, Houston, United States

Andrew McCulloch, PhD

University of California San Diego,
La Jolla, United States

Philippe Menasché, MD, PhD

Hôpital Européen Georges Pompidou,
Paris, France

Alessandra Moretti, PhD

Technical University, Munich, Germany

Erwin Neher, PhD

Max Planck Institute for Multidisciplinary Sciences,
Göttingen, Germany

David Nordsletten, DPhil

University of Michigan, Ann Arbor, United States

Joana Osório, PhD

Science, Oxford, United Kingdom

Paul Riley, PhD

University of Oxford, Oxford, United Kingdom

Blanca Rodriguez, PhD

University of Oxford, Oxford, United Kingdom

Eva van Rooij, PhD

Hubrecht Institute, Utrecht, the Netherlands

Ricardo Sanz Ruiz, MD, PhD

University Hospital Gregorio Maranon,
Madrid, Spain

Sakthivel Sadayappan, PhD, MBA

University of Arizona College of Medicine,
Tucson, United States

Jeff Saucerman, PhD

University of Virginia, Charlottesville,
United States

Constanze Schmidt, MD

University Medical Center Göttingen,
Göttingen, Germany

Joost Sluijter, PhD

University Utrecht, Utrecht, The Netherlands

Malte Tiburcy, MD

University Medical Center Göttingen,
Göttingen, Germany

Thomas Thum, MD, PhD

Hannover Medical School (MHH)
Hannover, Germany

Eldad Tzahor, PhD

Weizmann Institute of Science, Rehovot, Israel

Eugene J Wang, MD, PhD

Help Therapeutics, Nanjing, China

Yajing Wang, PhD

The University of Alabama at Birmingham,
Alabama, United States

Chloe Wilson, MD

Lancet, London, United Kingdom

Lei Ye, PhD

The University of Alabama at Birmingham,
Alabama, United States

Jay Zhang, MD, PhD

The University of Alabama at Birmingham,
Alabama, United States

Wolfram-Hubertus Zimmermann, MD

University Medical Center Göttingen,
Göttingen, Germany

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SYMPOSIUM ADMINISTRATIVE COORDINATORS:

Jutta Creydt

University Medical Center Göttingen,
Göttingen, Germany

Marie Ernst

German Center for Cardiovascular Research,
Partner Site Lower Saxony, Göttingen, Germany

Axel Kaul

German Center for Cardiovascular Research,
Partner Site Lower Saxony, Göttingen, Germany

Angela Kidd

University of Alabama at Birmingham,
Alabama, United States

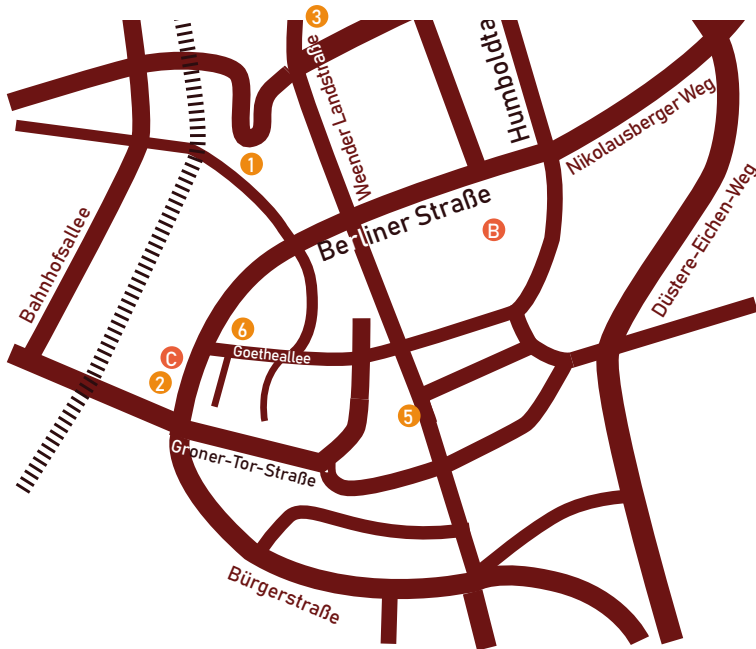
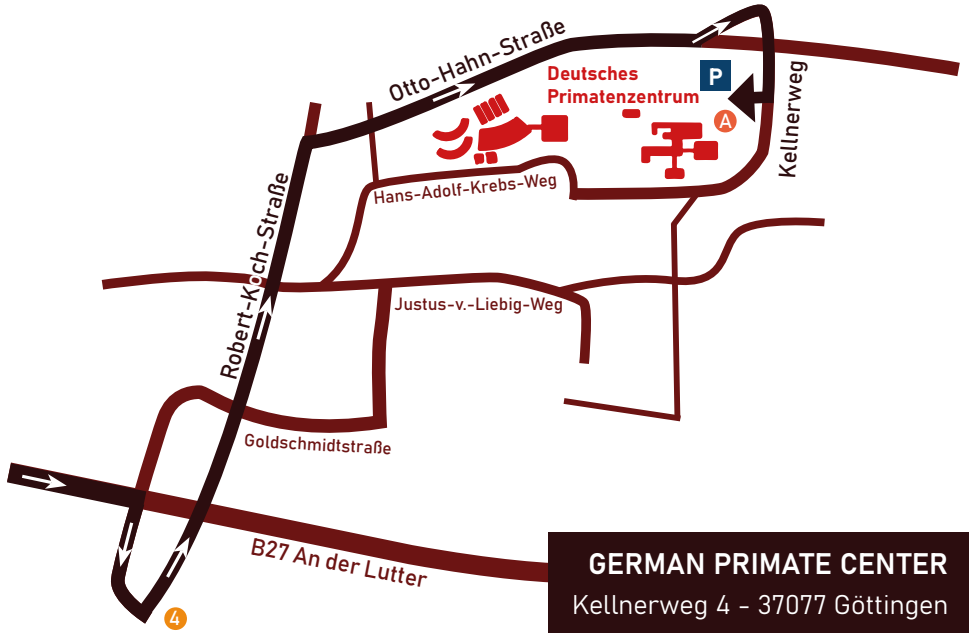
Melanie Ohm

German Center for Cardiovascular Research,
Partner Site Lower Saxony, Göttingen, Germany

Marcel Zoremba

University Medical Center Göttingen,
Göttingen, Germany

DIRECTIONS



HOTEL RECOMMENDATIONS

- 1** B&B Hotel Göttingen-City
Faculty Hotel
Maschmühlenweg 19-21, 37073 Göttingen
- 2** FREIGEIST Göttingen
Berliner Straße 30, 37073 Göttingen
- 3** FREIGEIST Nordstadt Göttingen
Weender Landstraße 100, 37075 Göttingen
- 4** Best Western Hotel
Am Papenberg
Herrmann-Rein-Straße 2, 37075 Göttingen
- 5** Hotel Central
Jüdenstraße 12, 37073 Göttingen
- 6** Romantikhotel Gebhards
Goethe-Allee 22-23, 37073 Göttingen

EVENING EVENTS

- A** BBQ at German
Primate Center
Kellnerweg 4, 37077 Göttingen
- B** Bremers Weinkellerei
Obere KarSpüle 42, 37073 Göttingen
- C** Forum Wissen
Liesels x Forum
Berliner Straße 28, 37073 Göttingen



CONTACT

DZHK Team Lower Saxony (Göttingen)
dzhk.team@med.uni-goettingen.de

REGISTRATION: dzhk.de/newsroom/events/cvbe-2026
Deadline for abstract submission: May 18th, 2026

