



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 Core mechanisms that regulate cardiac regeneration
across vertebrate species
Paul Riley

01:10 pm Regulation of Cardiac Maturation
Nicole Dubois

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

01:50 pm Coffee Break

Chairs: Nicole Dubois

Session II: Bioengineered Heart Modelling

02:40 pm Heart - Skeletal Muscle Cross-Talk
Malte Tiburcy

03:00 pm Modelling Repair by Cell Supplementation in Cardiac Organoids
Alessandra Moretti

03:20 pm Modelling Cardiac Hypertrophy in Cardiac Organoids
Sakthivel Sadayappan

03:40 pm ESCAPE Bioengineering
Christopher Chen

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

04:30 pm Poster Viewing with Lunch
(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 Virtual Drug Screens
Jeff Saucerman

10:40 am Physics-Informed Neural Networks to Predict Outcome
of Cardiac Interventions
Eberhard Bodenschatz

FRIDAY, June 19th, 2026

- 11:00 am Modelling of Electrical Heterogeneity in Cardiac Remuscularization
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 LNP delivered gene therapies for heart repair
Mauro Giacca
- 01:20 pm miR-therapeutics in heart failure
Thomas Thum
- 01:40 pm PKP2 restauration in arrhythmic cardiomyopathy
Eva van Rooij
- 02:00 pm Nanoparticle-Directed Delivery of Programming Factors
Johnny Kim
- 02:20 pm Nucleic acid-based therapies for adverse vascular remodelling
Andy Baker
- 02:40 pm Coffee Break

Chairs: Massimiliano Gneccchi | 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 HEAL-CHF: Clinical Trial
Eugene J Wang
- 03:40 pm LAPiS: Clinical Trial
Keiichi Fukuda
- 04:00 pm BioVAT-HF: Clinical Trial
Wolfram-Hubertus Zimmermann
- 04:20 pm Evolution of Stem Cell Clinical Trials
Ricardo Sanz Ruiz
- 04:40 pm Behind the Scene at Science
Joana Osório

05:00 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)

- 06:00 pm TBD
- 06:07 pm TBD
- 06:14 pm TBD
- 06:21 pm TBD
- 06:28 pm TBD
- 06:35 pm TBD

06:42 pm Panel Discussion

07:00 pm End

SATURDAY, June 20th, 2026



CVBE GÖTTINGEN 2022

Moderators: Constanze Schmidt

09:00 am **NOBEL LAUREATE LECTURE**
Discovery and Targeting of Ion Currents
Erwin Neher

09:40 am Coffee Break

Chairs: Patrick Ching-Ho Hsieh | Pilar Alcaide

Session VII: Nanopharmacology

10:00 am Nanoparticle Delivery of Cardiac Therapeutics
Ke Cheng

10:20 am Stem cell-derived small extracellular vesicles in
heart repair
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 Gnecchi
- 11:20 am Delivery of CRISPR/Cas by Extracellular Vesicles
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 Inducing Cytokinesis in Cardiomyocytes
Hesham Sadek
- 02:00 pm Switching on cardiomyocyte renewal by YAP activation
James Martin
- 02:20 pm Nanoparticle Delivery to Modulate Heart Repair
Patrick Ching-Ho Hsieh
- 02:40 pm Coffee Break

Chairs: Thomas Braun | Eva van Rooij

Session IX: Intercellular/Interorgan Cross-Talk

SATURDAY, June 20th, 2026

- 03:00 pm Modelling of Aging in Non-Human Primates
Rabea Hinkel
- 03:20 pm The immunopeptidome landscape of the heart in
health and injury
Eldad Tzahor
- 03:40 pm Crosstalk between Heart and Immune System
Pilar Alcaide
- 04:00 pm Adipocyte-derived small extracellular vesicles
promote cardiomyocyte apoptosis
Yajing Wang
- 04:20 pm Behind the Scene at Lancet
Chloe Wilson
- 04:40 pm Presentation of Awards and Concluding Remarks
Jay Zhang and Wolfram-Hubertus Zimmermann

Welcome to Taipei CVBE2027
Patrick Ching-Ho Hsieh

FACULTY

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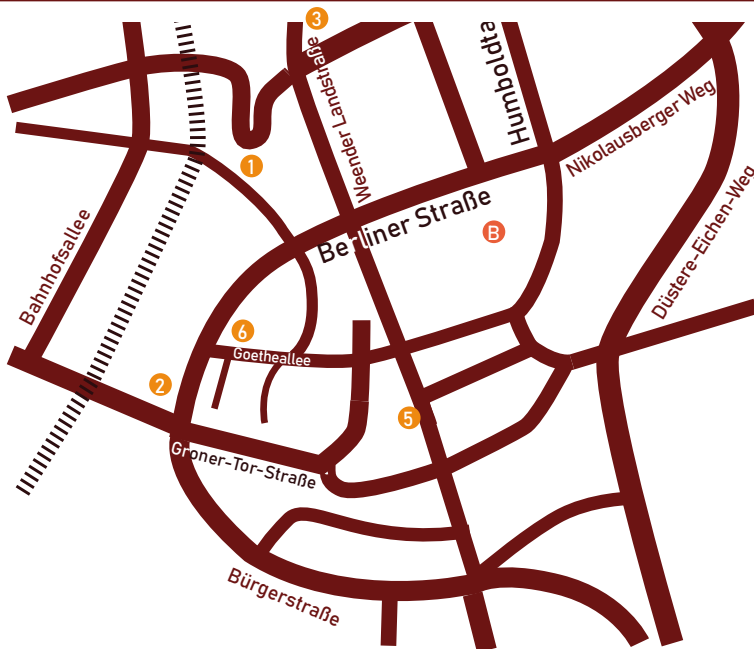
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DIRECTIONS



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** Romantikhôtel 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



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

