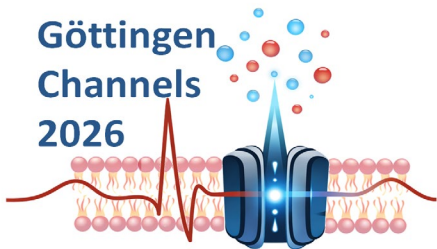


Göttingen
Channels
2026



UNIVERSITÄTSMEDIZIN
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GÖTTINGEN CHANNELS SYMPOSIUM 2026

MAY 7TH - MAY 8TH

German Primate Center
Kellnerweg 4, 37077 Göttingen



DZHK
Deutsches Zentrum für
Herz-Kreislauf-Forschung



DGK.
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WELCOME

Scientific leadership
& host



Constanze Schmidt
Department of Cardiology
and Pneumology
**University Medical
Center Göttingen**

Spokesperson of the
German Cardiac Society
Working Group on
Cellular Electrophysiology
(AG18)

Dear Colleagues and Friends,

I am delighted to welcome you to “Göttingen Channels 2026” of the German Cardiac Society Working Group on Cellular Electrophysiology (AG18).

Building on the success of our previous Channels Symposia, I am especially pleased to present once again a broad and inspiring program – this time dedicated specifically to cardiac ion channels. Understanding cardiac ion channels and exploring their potential relevance for therapeutic approaches in cardiovascular diseases is an important focus within our working group and brings together a rich spectrum ranging from basic research to translational and clinical applications. In addition to an exciting line-up of scientific talks including internationally well recognized colleagues and experts in the field, we have planned a poster session to ensure that early-career and emerging scientists have a strong platform to present their work and engage in discussion with the community.

It is a particular honor for me to welcome Nobel Laureate Prof. Dr. Erwin Neher as our keynote speaker. Prof. Neher received the Nobel Prize in Physiology or Medicine for enabling the direct detection of single ion channels in cell membranes and for pioneering the patch-clamp technique for high-resolution current recordings in biological membranes. I would like to express my sincere gratitude to all faculty members and speakers for contributing their time and expertise, and to our industry partners and sponsors for their generous support, which helps make this symposium possible.

Göttingen Channels 2026 held at the German Primate Center in Göttingen. This specifically selected institute unites translation and preclinical expertise, allowing us to share ideas on the urgently needed acceleration of translating basic research findings into clinical application and to conduct discussions with this idea in mind. I look forward to welcoming you in person for an inspiring meeting, lively discussions, and fruitful scientific exchange.

THURSDAY, May 7th, 2026



Foto: Manfred Eberte, DPZ



GERMAN PRIMATE CENTER
Kellnerweg 4 - 37077 Göttingen

9:00 am Registration and Coffee Reception

9:20 am Welcome address - Constanze Schmidt (Göttingen)

Session I: Novel insights into K2P channel function
Chairs: Constanze Schmidt (Göttingen) & Niels Decher (Marburg)

9:30 am K2P channels in cardiac arrhythmias and development
Niels Decher (Marburg)

10:00 am The Role of K2P Channels in Atrial Arrhythmopathy
Constanze Schmidt (Göttingen)

10:30 am Breaking the Silence: TASK-5 (KCNK15) forms functional heterodimers with TASK-1 and TASK-3
Susanne Rinné (Marburg)

11:00 am Spatio-temporal determinants of epicardial repolarisation patterns and pro-arrhythmic status in acquired LQT syndrome
Godfrey Smith (Glasgow)

11:30 am LUNCH | Tour DPZ and Posters
Chairs: **Rabea Hinkel & Frank Heinzel & Stephan Lehnart & Jan Schulte**
Poster Prize Election

THURSDAY, MAY 7TH, 2026

Session II: Ion channel function in Atrial Cells

Chairs: Felix Wiedmann (Göttingen) & Gunther van Loon (Ghent)

- 1:00 pm Inflammatory aspects in atrial cells
Dobromir Dobrev (Essen)
- 1:30 pm Cardiomyocyte Ca²⁺ in HFpEF
Frank Heinzel (Dresden)
- 2:00 pm Ca²⁺ channel involvement in atrial arrhythmias
Niels Voigt (Göttingen)
- 2:30 pm Atrial-focused antiarrhythmic compounds on the horizon
Paulus Kirchhof (Hamburg)
- 3:00 pm Single cell and spatial transcriptomics in heart failure
Norbert Hübner (Berlin)
- 3:30 pm Coffee Break

Session III: From genes to ion channel function in cardiac cells

Chairs: Michael Gotthardt (Berlin) & Jason Bayer (Bordeaux)

- 4:00 pm Mechanistic Insight into Iron Overload Arrhythmias
Guiscard Seeböhm (Münster)
- 4:30 pm Pitx2 and genetic drivers of cardiac arrhythmias
Larissa Fabritz (Hamburg)

Key Note NOBEL LECTURE

- 5:00 pm History of cellular electrophysiology - the patch clamp technique
Erwin Neher (MPI Göttingen)
- 6:00 pm Conference Dinner - Barbeque at the DPZ

FRIDAY, May 8th, 2026



Foto: AdobeStock 425704806

GÖTTINGER GÄNSELIESEL

8:00 am Coffee Reception

Session IV: Novel mechanistic insights into cardiac channelopathies

Chairs: Felix Hohendanner (Berlin) & Frank Heinzel (Dresden)

8:30 am Gene therapy for QT syndromes
Katja Odening (Bern)

9:00 am Cardiac channelopathies: novel disease mechanisms beyond the cardiomyocyte
Carol Ann Remme (Amsterdam)

9:30 am New insights in short-QT syndrome
Ibrahim El-Battrawy (Bochum)

10:00 am Coffee Break

Session V: Arrhythmogenic mechanisms and underlying causes

Chairs: Wolfram-H. Zimmermann (Göttingen) & Björn Knollmann (Nashville)

10:30 am Connexin 43, a potential target for reducing cardiac electrical vulnerability post-MI
Bernd Fleischmann (Bonn)

FRIDAY, May 8th, 2026

- 11:00 am Low energy control of cardiac fibrillation
Stefan Luther (MPI Göttingen)
- 11:30 am Therapeutic development of RyR2 modulators as antiarrhythmic drugs
Björn Knollmann (Nashville)
- 12:00 pm Developing gene therapy-based biological pacemakers
Geert Boink (Amsterdam)
- 12:30 pm Lunch

Session VI: Novel developments in ion channel targeting
Chairs: Tobias Moser (Göttingen) & Aytuğ Kiper (Greifswald)

- 1:30 pm Common denominators: HCN channel plasticity determines cardiac conduction system function in health & disease
Alicia D'Souza (London)
- 2:00 pm Porcine Models in Cardiac Electrophysiology: Translational Applications and Insights
Bastiaan Boukens (Maastricht)
- 2:30 pm HDAC2 inactivation attenuates proarrhythmic electrophysiological alterations in Crem-IbΔC-X transgenic mice, a model of atrial fibrillation
Jan Schulte (Münster)
- 3:00 pm Permeation, selectivity and gating in potassium channels
Bert de Groot (Göttingen)
- 3:30 pm Advancing Allosteric Stabilization of RyR Ca²⁺ Release Channels towards Personalizable Drug Concepts
Stephan E. Lehnart (Göttingen)
- 4:00 pm Poster Prize & Closing Remarks
Constanze Schmidt (Göttingen)

FACULTY

Jason Bayer

University of Bordeaux, France

Geert Boink

Amsterdam University Medical Center,
Netherlands

Bastiaan Boukens

Maastricht University, Netherlands

Niels Decher

Marburg University, Germany

Bert de Groot

Max Planck Institute for
Multidisciplinary Sciences, Germany

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Bernd Fleischmann

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Aytuğ Kiper

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Germany

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Max Planck Institute for
Multidisciplinary Sciences, Germany

Katja Odening

Inselspital, Bern University Hospital,
Switzerland

WELCOME



Carol Ann Remme

Amsterdam University Medical Centre

Susanne Rinné

Marburg University, Germany

Constanze Schmidt

University Medical Center Göttingen,
Germany

Jan Schulte

Münster University, Germany

Guiscard Seeböhm

Münster University, Germany

Godfrey Smith

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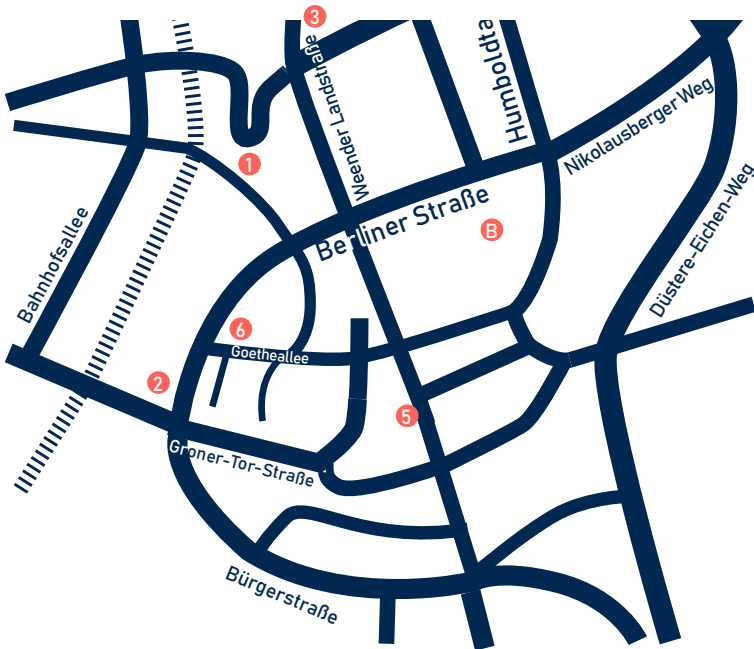
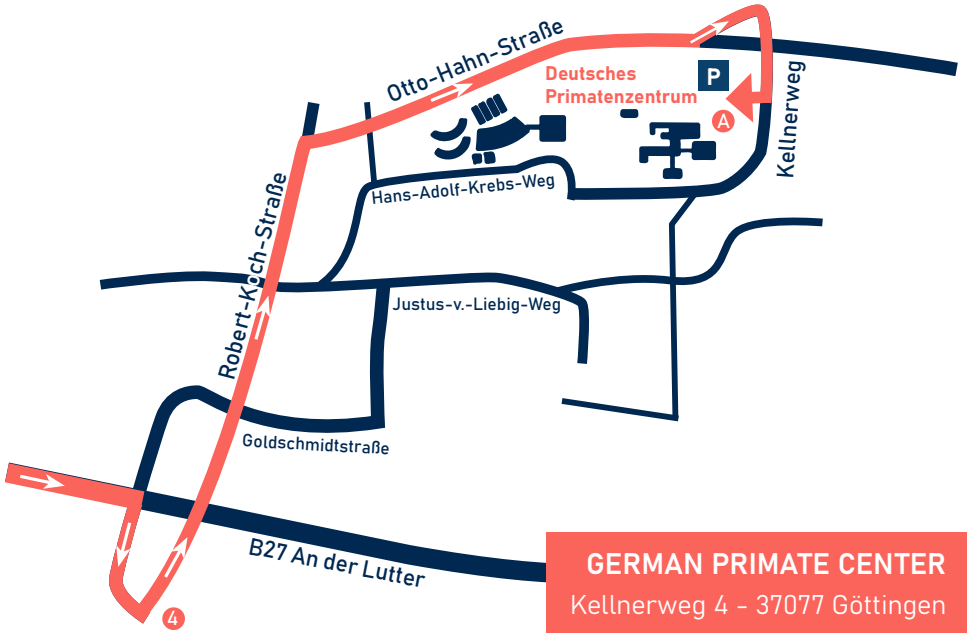
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DIRECTIONS





HOTEL RECOMMENDATIONS

- 1 B&B Hotel Göttingen-City**
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



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Göttingen Channels 2026 is presented in cooperation with the
German Cardiac Society Working Group on Cellular Electrophysiology



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