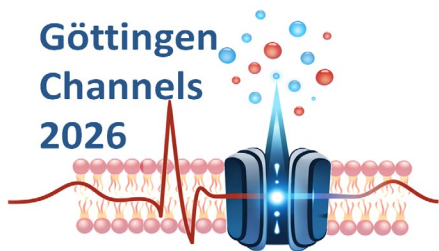


Göttingen  
Channels  
2026



UNIVERSITÄTSMEDIZIN  
GÖTTINGEN



Herz  
Zentrum  
Göttingen



# GÖTTINGEN CHANNELS SYMPOSIUM 2026

MAY 7<sup>TH</sup> - MAY 8<sup>TH</sup>

German Primate Center  
Kellnerweg 4, 37077 Göttingen



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Herz-Kreislauf-Forschung



**DGK.**  
Schirmherrschaft

# WELCOME

Scientific leadership  
& host



A handwritten signature in blue ink, appearing to read 'C. Schmidt'.

**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 7<sup>th</sup>, 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 7<sup>TH</sup>, 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 Ca<sup>2+</sup> in HFpEF  
*Frank Heinzel (Dresden)*
- 2:00 pm Ca<sup>2+</sup> 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 8<sup>th</sup>, 2026



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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 8<sup>th</sup>, 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 Ca<sup>2+</sup> 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**

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**Bert de Groot**

Max Planck Institute for  
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**Katja Odening**

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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 Seebohm**

Münster University, Germany

**Godfrey Smith**

University of Glasgow, United Kingdom

**Gunther van Loon**

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University Medical Center Göttingen,  
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**Felix Wiedmann**

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Germany

**Wolfram-Hubertus Zimmermann**

University Medical Center Göttingen,  
Germany

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**Marie Ernst**

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**Melanie Ohm**

Department of Cardiology and  
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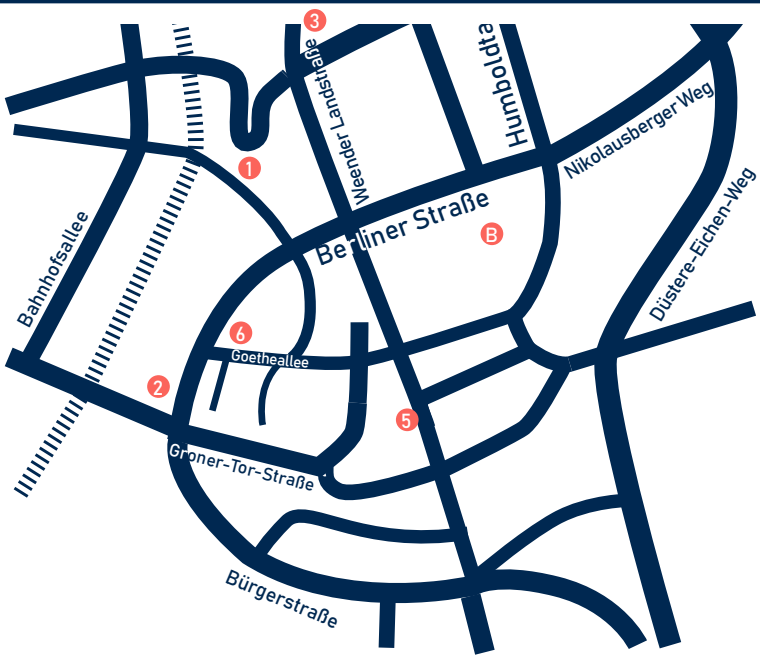
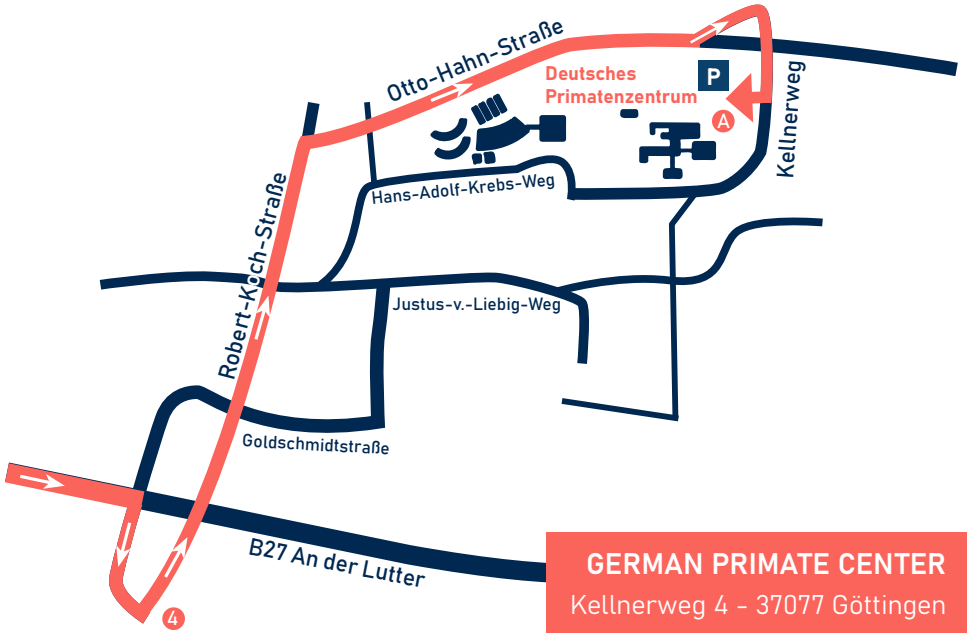
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# DIRECTIONS





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## 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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