Ion Channel Symposium featuring the
Copenhagen Meeting on
Cardiac Arrhythmia

2017 | May 31 – June 2
Novo Nordisk Foundation’s Lecture Hall

Organizers
Nicole Schmitt | Bo Hjorth Bentzen | Søren-Peter Olesen
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Welcome to the 14th edition of the Ion Channel Symposium. After the success of the Copenhagen Meeting on Cardiac Arrhythmia in 2014, we decided to do it again! So here it is - a 3-day meeting focused on cardiac arrhythmia!

As in the previous years, we have been able to recruit excellent international speakers. Again, we will give focus to the discussions after the presentations, in the coffee and lunch breaks and during social activities.

Beyond great science presented by talks and posters, the meeting will also offer a guided tour at the Carlsberg Brewery and a Get-together dinner. The meeting qualifies as a PhD course generously funded by the Graduate School of Health and Medical Sciences at the University of Copenhagen.

It is a great pleasure to welcome you to this meeting on Cardiac Arrhythmia in Copenhagen. We are looking forward to three exciting days, seeing old friends and making new ones, to hear excellent talks and discuss at posters presented by PhD students and postdocs from Denmark, Norway, Spain, Scotland, The Netherlands, Sweden, Finland, Germany, and even Canada.

Best wishes,

Nicole Schmitt, Bo Hjorth Bentzen, and Søren-Peter Olesen
ORGANIZATION

Secretariat

Ms. Ragnhild Mostert
Dept. of Biomedical Sciences, Faculty of Health and Medical Sciences, The Panum Institute, University of Copenhagen, Copenhagen, Denmark
E-mail: rmostert@sund.ku.dk | Phone: +45 21 16 19 29

Financial support

This meeting would not be possible without the generous support from:
- Graduate School of Health and Medical Sciences, University of Copenhagen
- John and Birthe Meyer Foundation
- The Scandinavian Physiological Society
- The Carlsberg Foundation
- The Novo Nordisk Foundation

SCIENTIFIC PROGRAMME

Session overview
May 31
- Calcium handling in cardiac arrhythmia
- Poster presentations

June 1
- Atrial fibrillation – genes and models
- Seeing is better than believing - advanced imaging techniques in arrhythmia research

June 2
- It’s epic - epigenetics in cardiac disease
- All too sudden – Sudden death
## Wednesday | May 31

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30 – 9:00</td>
<td>Registration</td>
</tr>
</tbody>
</table>
| 9:00 – 9:15   | Søren-Peter Olesen, University of Copenhagen, Denmark  
*Welcome address and introduction to the day* |
| 9:15 – 10:00  | **Opening lecture**  
Christine Albert (Harvard Medical School, USA)  
*The future of arrhythmias and electrophysiology: early detection and prevention* |
| 10:00 – 10:30 | Dobromir Dobrev (University Duisburg-Essen, Germany)  
*Role of abnormal Ca signaling in AF* |
| 10:30 – 11:00 | **Coffee break**                                                                                 |
| 11:00 – 11:30 | Leif Hove-Madsen (Cardiovascular Research Centre’ Hospital de la Santa Creu i Sant Pau Barcelona, Spain)  
*Single nucleotide polymorphisms on chromosome 4q25 link risk of atrial fibrillation to arrhythmogenic calcium release* |
| 11:30 – 12:00 | Niall Macquaide (University of Glasgow, UK)  
*Alterations in cardiac calcium release in disease* |
| 12:00 – 13:00 | **Lunch break**                                                                                  |
| 13:00 – 13:20 | Gustav Ahlberg (University of Copenhagen, Denmark)  
*The role of calcium in atrial fibrillation* |
| 13:20 – 13:40 | Laura Andreasen (University of Copenhagen, Denmark)  
*Next-generation sequencing of AV Nodal Reentrant Tachycardia patients* |
| 13:40 – 14:10 | Frank Heinzel (Charité Berlin, Germany)  
*Calcium handling in heart failure* |
| 14:10 – 14:40 | Glen Tibbits (Simon Fraser University, Canada)  
*A zebrafish heart voltage and calcium optical mapping system* |
| 14:40 – 15:00 | **Coffee break**                                                                                  |
| 15:00 – 17:00 | **SESSION II (with snacks and beverages)**  
**Poster presentations**  
*chaired by Morten B Thomsen & Morten Schak Nielsen*  
Supported by the Special Interest Group on Cardiac Arrhythmia of the Scandinavian Physiological Society (SPS) and the Danish Cardiovascular Research Academy (DaCRA)* |
Thursday | June 1

9:00 – 9:05  Bo Hjorth Bentzen
*Introduction to the day*

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**SESSION III**

**Atrial fibrillation – genes and models**
*chaired by Bo Hjorth Bentzen & Morten Salling Olesen*

9:05 – 9:35  Ivan Moskowitz (University of Chicago, USA)
*Pitx2 modulates a Tbx5-dependent gene regulatory network to maintain atrial rhythm*

9:35 – 10:05  Ingrid E Christophersen (Massachusetts General Hospital, the Broad Institute of MIT and Harvard, and Bærum Hospital, Vestre Viken Hospital Trust)
*Genome-wide association studies – new hits for atrial fibrillation*

10:05 – 10:30  Coffee break

10:30 – 11:00  Patrizia Dell’Era (University of Brescia, Italy)
*Atrial fibrillation modeling using iPSC-derived cardiomyocytes*

11:00 – 11:30  Jussi Koivumäki (University of Eastern Finland, Finland)
*Cellular mechanisms of human atrial fibrillation: insights from computational models*

11:30 – 12:00  Sander Verheule (Maastricht University, The Netherlands)
*Atrial fibrillation and ischemia*

12:00 – 13:00  Lunch break

13:00 – 13:20  Rafel Vincens  (University of Copenhagen and Acesion Pharma, Denmark)
*Therapeutic potential of new negative SK channel modulators*

13:20 – 13:40  Mark Skarsfeldt (University of Copenhagen, Denmark)
*Exploration of atrial specific ion channels in the zebrafish heart*

13:40 – 14:00  Stefan Sattler (University of Copenhagen, Denmark and Ludwig Maximilians University Munich, Germany)
*Antiarrhythmic interventions in a porcine model of ventricular fibrillation*

14:00 – 14:30  Coffee break

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**SESSION IV**

**Seeing is better than believing - advanced imaging techniques in arrhythmia research**

14:30 – 15:00  Mario Delmar (New York University, USA)
*A small universe inside the cardiomyocytes – intercalated disk visualized by super-resolution microscopy*

15:00 – 15:20  Line Winther Waring Strømlund (University of Copenhagen, Denmark)
*Nav1.5 trafficking is regulated by a novel tubulin-like domain in the C-terminus of Connexin43*

15:20 – 15:50  Hermenegild Arevelo (Simula Research Laboratory, Norway)
*Arrhythmia risk stratification of patients after myocardial infarction using personalized heart models*

16:45  Bus departure for transfer to Carlsberg Brewery

17:30 – 22:00  Guided tour at the Carlsberg Brewery
*Dinner and Get-together at the Carlsberg Academy*
## Friday | June 2

### SESSION V

**It’s epic - epigenetics in cardiac disease**

*chaired by Nicole Schmitt & Bo Hjorth Bentzen*

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>9:00 – 9:30</td>
<td>Paula da Costa Martins (Maastricht University, The Netherlands)</td>
<td><em>Circulating miRNAs: reflecting or affecting cardiovascular disease?</em></td>
</tr>
<tr>
<td>9:30 – 10:00</td>
<td>Gianluigi Condorelli (Humanitas University, Italy)</td>
<td><em>Epigenetic modifications regulating cardiac gene expression in physiology and disease</em></td>
</tr>
<tr>
<td>10:00 – 10:30</td>
<td>Halina Dobrzynski (University of Manchester, UK)</td>
<td><em>The role of microRNAs in bradyarrhythmias</em></td>
</tr>
<tr>
<td>10:30 – 10:40</td>
<td>Poster awards</td>
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<tr>
<td>10:40 – 11:00</td>
<td>Coffee break</td>
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</tbody>
</table>

### SESSION VI

**All too sudden – Sudden death**

*chaired by Jacob Tfelt-Hansen & Thomas Jespersen*

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 – 11:30</td>
<td>Stefan Kääb (Ludwig-Maximilians University Munich, Germany)</td>
<td><em>Genetics of sudden cardiac death</em></td>
</tr>
<tr>
<td>11:30 – 12:00</td>
<td>Alfonso Bueno-Orovio (University of Oxford, UK)</td>
<td><em>Sudden death in the young: Decoding cellular profiles of hypertrophic cardiomyopathy</em></td>
</tr>
<tr>
<td>12:00 – 12:20</td>
<td>Alex Herby Christensen (University Hospital Copenhagen, Denmark)</td>
<td><em>Cardiomyopathies and sudden death</em></td>
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<tr>
<td>12:20 – 13:20</td>
<td>Lunch break</td>
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</tbody>
</table>

*chaired by Jesper Hastrup Svendsen & Henning Bundgaard*

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:20 – 13:40</td>
<td>Henning Bundgaard (University Hospital Copenhagen, Denmark)</td>
<td><em>Genetic investigation of 100 heart genes in sudden unexplained death victims in a forensic setting</em></td>
</tr>
<tr>
<td>13:40 – 14:10</td>
<td>John Morrow (Columbia University, USA)</td>
<td><em>Mitochondrial oxidative stress during cardiac lipid overload causes intracellular calcium leak and arrhythmia</em></td>
</tr>
<tr>
<td>14:10 – 14:40</td>
<td>Crystal Ripplinger (UC Davis, USA)</td>
<td><em>The nervous heart</em></td>
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<tr>
<td>14:45</td>
<td></td>
<td>Closing remarks</td>
</tr>
</tbody>
</table>
POSTER PRESENTATIONS

- The poster area is located in the conference hall and the cantina across the hall. Posters will be displayed during the entire meeting. Posters can be mounted on Wednesday from the morning coffee break.
- Mounting material will be available at the poster areas. Look up your poster board number below.
- Poster presenters should be at their posters during poster session.
- The poster session will be informal, i.e. without guided poster rounds.
- Beer, soft drinks, snacks will be served to support the lively discussions. The poster session is hosted by the Special Interest Group on Cardiac Physiology of the Scandinavian Physiological Society.
- The poster judges will evaluate the posters based on scientific quality and the presentation by the student. Poster prizes will be awarded on Friday.

<table>
<thead>
<tr>
<th>No.</th>
<th>Presenting Author</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Marvin Gunawan</td>
<td>Investigating Basic Cardiac Properties of the Zebrafish Heart Using Optical Mapping</td>
</tr>
<tr>
<td>3</td>
<td>Kaveh Rayani</td>
<td>Effects of Drug Induced Changes in the QT Interval on Zebrafish Heart Calcium Handling and Voltage Dynamics</td>
</tr>
<tr>
<td>4</td>
<td>Valentine Sergeev</td>
<td>Effects of the hERG activator RPR-260243 in a model of acquired Long-QT syndrome</td>
</tr>
<tr>
<td>5</td>
<td>Sanam Shafat Talab</td>
<td>Using human iPSC-derived cardiomyocytes to study inherited and acquired arrhythmias</td>
</tr>
<tr>
<td>6</td>
<td>Alison Yueh Li</td>
<td>Changes in Calcium Binding Kinetics in Hypertrophic Cardiomyopathy-Associated Troponin T Mutations</td>
</tr>
<tr>
<td>7</td>
<td>Johan Larsson</td>
<td>Identification of residues important for the PUFA sensitivity of IKs</td>
</tr>
<tr>
<td>8</td>
<td>Disheet Shah</td>
<td>Disease modeling Finnish cardiac disorder Long QT Syndrome with patient induced pluripotent stem cells</td>
</tr>
<tr>
<td>9</td>
<td>Kamilla Taunsg Larsen</td>
<td>Calmodulin Mutations Causing Long QT Syndrome - In Search of the Underlying Disease Mechanisms</td>
</tr>
<tr>
<td>10</td>
<td>Marta Lemme</td>
<td>Retinoic acid-treated hiPSC-CM: a suitable model for human atrium?</td>
</tr>
<tr>
<td>11</td>
<td>Miriam Rol-Garcia</td>
<td>Cardiotoxicology and therapeutic profiles of novel drugs using hiPSC cardiomyocytes</td>
</tr>
<tr>
<td>12</td>
<td>Risto-Pekka Pölönen</td>
<td>Antiarrhythmic effects of carvedilol and flecainide in catecholaminergic polymorphic ventricular tachycardia patient specific induced pluripotent stem cell derived cardiomyocytes</td>
</tr>
<tr>
<td>No.</td>
<td>Presenting Author</td>
<td>Title</td>
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<td>-----------------------------------------------------------------------</td>
</tr>
<tr>
<td>13</td>
<td>Joana Larupa dos Santos</td>
<td>Role of microRNAs in atrial fibrillation</td>
</tr>
<tr>
<td>14</td>
<td>Sara Dobi</td>
<td>Comparison of contraction – frequency relationship in Atrial and Ventricular myocytes from rabbit (Preliminary Study)</td>
</tr>
<tr>
<td>15</td>
<td>Vilde Strøm</td>
<td>Using virtual heart models to predict arrhythmia risk in post-infarction patients</td>
</tr>
<tr>
<td>16</td>
<td>Anniek Lubberding</td>
<td>Analysing open versus closed thorax approach in the study of ventricular fibrillation in a porcine model of acute myocardial infarction</td>
</tr>
<tr>
<td>17</td>
<td>Adela Herraiz Martínez</td>
<td>Mitral valve disease cause cellular hypertrophy and defective calcium homeostasis in human atrial myocytes.</td>
</tr>
<tr>
<td>18</td>
<td>Bernardo Dolce</td>
<td>Role of PDE4 for Inotropy and Electrical Stability in Human Atrium.</td>
</tr>
<tr>
<td>19</td>
<td>Myriam Fezai</td>
<td>Up-Regulation of the Large-Conductance Ca(^{2+})-Activated K(^+) Channel by Glycogen Synthase Kinase GSK3𝛽</td>
</tr>
<tr>
<td>20</td>
<td>Luca Soattin</td>
<td>Adenosine A1 receptor activation plays a proarrhythmic role in rat atrium</td>
</tr>
<tr>
<td>21</td>
<td>Carmen Tarifa</td>
<td>Adenosine A2A receptor activation increases the frequency and proximity of calcium sparks to the sarcolemma in human atrial myocytes</td>
</tr>
<tr>
<td>22</td>
<td>Verónica Jiménez-Sábado</td>
<td>Effects of atrial fibrillation on the distribution and phosphorylation of ryanodine receptor clusters at the sites Ser2808 and Ser2814 in human atrial myocytes</td>
</tr>
<tr>
<td>23</td>
<td>Rafel Simó Vicens</td>
<td>Novel negative allosteric modulator inhibits Small Conductance Ca(^{2+})-Activated K(^+)-Channels and selectively prolongs atrial refractoriness in conscious pigs</td>
</tr>
<tr>
<td>24</td>
<td>Arnela Saljic</td>
<td>Impact of novel calmodulin mutations on SK3 channels</td>
</tr>
<tr>
<td>25</td>
<td>Ilse van Herck</td>
<td>Small conductance calcium activated potassium channel: pharmacology and binding scheme for in silico model</td>
</tr>
<tr>
<td>26</td>
<td>Marcia Vagos</td>
<td>A computational framework for testing arrhythmia marker sensitivities to model parameters in functionally calibrated populations of atrial cells</td>
</tr>
<tr>
<td>27</td>
<td>Pi Camilla Poulsen</td>
<td>Isolation of four primary cell types of the heart and in-depth investigation of their protein expression profiles</td>
</tr>
<tr>
<td>28</td>
<td>Kalai Mangai Muthukumarasamy</td>
<td>Regulatory Mechanism of SK Channel by PKA in Atrial Electrophysiology</td>
</tr>
</tbody>
</table>
**PhD course**

The conference is certified as PhD course and merits 2.6 ECTS points. Students were encouraged to bring a poster to present and discuss their own projects.

**Attendance records and certificates**

*PhD students enrolled at Danish Universities*
You have to sign an attendance record every day in order to receive your certificate.

*Master students or PhD students not enrolled at Danish Universities*
We have prepared certificates which will also state that you have presented a poster, if applicable. Be sure to pick up your certificate on Friday.

**Special Interest Group on Cardiac Physiology**

The Special Interest Group (SIG) on Cardiac Physiology seeks to improve the network between Scandinavian groups involved in cardiac research. They focus on aiding PhD students and young group leaders to develop their scientific careers and organize biannual network meetings financially supported by the Scandinavian Physiological Society (SPS). They are also represented at Annual SPS Meetings with featured symposia.

**Contribution to this conference**

The Poster session on Wednesday is co-chaired by the SIG and will display the latest in experimental and clinical research in cardiac physiology. We invite the students and early-career scientist to bring their most recent, exciting findings.

The SIG donates a poster award.

**How to become a member?**

Would you like to be a member of the SIG on Cardiac Physiology?
Easy – contact Morten Thomsen and he will write you on the mailing list and provide membership information for the Scandinavian Physiological Society.

Morten B. Thomsen
University of Copenhagen, Denmark (mbthom@sund.ku.dk)
**SOCIAL PROGRAMME**

**Guided tour at Carlsberg Brewery**
Thursday | June 1 | 17:30

Carlsberg was founded by J. C. Jacobsen. His son Carl Jacobsen was also a brewer and with his fortune he amassed an impressive art collection which is now housed in the Ny Carlsberg Glyptotek in central Copenhagen. The first brew was finished on 10 November 1847.

Jacobsen set up the Carlsberg Laboratory in 1875, which worked on scientific problems related to brewing. The species of yeast used to make lager beer, Saccharomyces carlsbergensis, was isolated by Emil Christian Hansen at the laboratory in 1883. The Carlsberg Laboratory also developed the concept of pH and made advances in protein chemistry.

In 1876, J.C. Jacobsen established the Carlsberg Foundation, run by trustees from the Royal Danish Academy of Sciences and Letters, which managed the Carlsberg Laboratory as well as supporting scientific research within the fields of natural sciences, life sciences, the humanities and social sciences.

[Text from Wikipedia.org]

**Get-together dinner at the Carlsberg Academy**
Thursday | June 1 | 18:30

J.C. Jacobsen built a large house and laid out a fantastic garden for himself and his family – right in the middle of the brewery facility.

After the death of his wife, the house was in 2014 turned into an honorary residence for a man or woman engaged in science, literature or art.

The first honorary resident was the philosopher Harald Høffding. He was followed by probably the most famous of the honorary residents, nuclear physicist Niels Bohr, who lived in the residence from 1931 to 1962. The archaeologist Johannes Brøndsted followed Bohr,
occupying the honorary residence for two years. In 1967, the Danish astronomer Bengt Strømgren was offered the residency and returned to Denmark following many years working as a researcher in the USA. The final honorary resident was Professor of East Asian Languages Søren Egerod. After his death, the Carlsberg Foundation resolved in 1995 to renovate the house and establish the Carlsberg Academy, with the ground floor dedicated to symposiums and conferences.

[text from Carlsberg Foundation]

**PRACTICAL INFORMATION**

**Contact**
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Nicole Schmitt
nschmitt@sund.ku.dk, phone: +45 60 61 89 95

Bo Hjorth Bentzen
bobe@sund.ku.dk, phone +45 27 16 15 61

**Internet access**
There will be wireless internet access during the meeting. An access code will be provided onsite.

**Oral presentations**
We kindly ask our speakers to keep strictly within the time limit given in the programme for both presentation and discussion. All time slots include a minimum of five minutes of questions from the audience.

- Presentation equipment will be provided for PowerPoint presentations.
- If possible, please do not bring your own computer. Please bring your file on a USB-stick or similar and the chairpersons will help transfer your presentation to the PC at the beginning of the session. Files will be deleted after the session.
- If you show movies or animations, please make sure to bring all necessary files on your removable device or to embed files into your presentation.
Parking
Public parking space is available in the area close to the Waterfront Shopping Mall. However, we strongly recommend public transportation as space is limited and fees are high.

Taxi
Contact information for taxi companies:
Dantaxa, Phone: +45 70 25 25 25, www.taxamotor.dk
Taxa 3x35, Phone: +45 35 35 35, www.taxa.dk
Amager-Øbro Taxa, Phone: +45 32 51 51 51, www.amagerobrotaxi.dk

In addition, the information desk of the Novo Nordisk Foundation will be happy to assist you with calling a taxi.

We will provide taxi vouchers for the invited speakers.

Venue address
Novo Nordisk Foundation
Tuborg Havnevej 19, 2900 Hellerup

Website
http://cardiac-arrhythmia.ku.dk/
DIRECTIONS AND MAPS

Conference venue

The Novo Nordisk Foundation can easily be reached by public transportation.

From the airport

The total travel time from the airport to the venue is approximately 45 min. The travel fare from the airport is DKK 36 (3 zones) by public transport. You can use the ticket all the way, i.e. you do not need to buy a new ticket when changing to the bus, just show your ticket when you enter the bus at the front entrance.

Option 1 (Metro, S-train, bus)

- Take Metro line 2 heading towards Vanløse st. The Metro runs every 4 minutes between the airport and Nørreport station and takes about 15 minutes.
- Get off at Nørreport station and change to S-train line B (direction Holte st), C (direction Klampenborg st), or E (direction Hillerød st).
- Get off at Svanemølle station and take Bus line 1A (direction Klampenborg st, find bus stop overview below).
- Get off at Tuborg Boulevard and walk 600 m (see map below).

Option 2 (local train, S-train, bus)

- Take local train (direction Copenhagen Central Station). The train runs every 10 minutes between the airport and the Central Station and takes about 15 minutes.
- At Copenhagen Central Station change to S-train line B (direction Holte st), C (direction Klampenborg st), or E (direction Hillerød st).
- Get off at Svanemølle station and take Bus line 1A (direction Klampenborg st, find bus stop overview below).
- Get off at Tuborg Boulevard and walk 600 m (see map below).

Option 3 (taxi)

The price from the airport to the venue is approximately DKK 300. From the airport to the city center the price is approximately DKK 200. All taxis take cash and international credit cards.
From the city center

The travel time from city center is approximately 30 min. The price is DKK 24 (2 zones).

Option 1 (S-train, bus)

- Take S-train from the Central Station or Nørreport station, S-train line B (direction Holte st), C (direction Klampenborg st), or E (direction Hillerød st).
- Get off at Svanemølle station and take Bus line 1A (direction Klampenborg st, find bus stop overview below).
- Get off at Tuborg Boulevard and walk 600 m (see map below).
Option 2 (bike)

If you like to try it the Copenhagen way, most hotels and hostels offer bike rentals. The distance between the city center and the venue is about 7 kilometers. According to Google Maps, it should take you about 20 minutes to bike from Nørreport station to the venue.
Option 3 (taxi)

The price from the city center to the venue the price is approximately DKK 300. All taxis take cash and international credit cards.
**Guided tour and Get-together**
The address is Gamle Carlsberg Vej 15, 1799 Copenhagen V.

**Shuttle from Conference venue to Carlsberg Visitor Center**
For the transfer from the conference venue to the brewery, we have booked two busses for invited speakers and attendees. Departure 16:45.
We encourage the locals to take their bikes or to use public transportation.

**Public transport**
The busses 8A and 26 nearly takes you to the door. Visit Carlsberg is a 3-minute walk from the Kammavjej bus stop. The 26 bus runs from City Hall Square and the Central Station. The 8A bus runs from Nordhavn St. You can change from the Metro to the 8A bus at Frederiksberg St./Frederiksberg Centeret.

Carlsberg Station is the closest S-train station – Visit Carlsberg is about 5-minutes of walking away. When you come up from the station, turn left and follow the bicycle/foot path running alongside the train tracks in the direction away from Copenhagen Central Station, until you reach the top of the hill, from where Visit Carlsberg will be on your right hand side.

You can take the B, C or H-line to Carlsberg Station.