Welcome

1st Summer School of the European Society for Microcirculation (ESM) and the European Vascular Biology Organization (EVBO) from July 1-5, 2018 in Dresden, Germany

Dear colleagues,

It is a great pleasure to invite you to the 1st Summer School of the European Society for Microcirculation (ESM) and the European Vascular Biology Organization (EVBO) from July 1-5, 2018 in Dresden, Germany!

Microcirculation and vascular biology play a central role in cardiovascular development, function and diseases. The ESM and the EVBO want to support young investigators by establishing a Joint Summer School in the years between the Joint European Congresses. The 1st Summer School was announced at the Joint Meeting of the ESM and the EVBO in Geneva and will take place in Dresden, Germany. The programme will be supported by the ESM, the EVBO and the TransCampus of TU Dresden and King's College London. The programme of the Summer School will include method courses, renowned experts in the field as invited speakers and poster presentations by young investigators selected from the submitted abstracts.

We want to attract mainly early researchers (PhD and MD students in the first three years of their research) plus a few more experienced researchers whose PhD was obtained within the last 2 years. Students from around Europe who are interested to participate can send us an abstract summarizing their project via e-mail to: Henning.Morawietz@tu-dresden.de (deadline: April 15, 2018). The 30 participants will be selected by peer-review.

In addition, the city of art, culture, and science Dresden offers a variety of cultural highlights like the Church of Our Lady (Frauenkirche), Royal Palace, Zwinger, Semper Opera House, Albertinum, Elbe castles, or the 'Blue Wonder' bridge. We plan an attractive social programme including a Get-together, an evening at the City Beach and an excursion to the national park Saxon Switzerland.

We will be very pleased to welcome you in Dresden in July 2018!

Best regards,

Henning Morawietz
TU Dresden

Richard Siow
King's College London
# General Information

## Event

1st Summer School of the European Society for Microcirculation (ESM) and the European Vascular Biology Organization (EVBO)

## Venue

**Medical-Theoretical Center - MTZ**

Medical Faculty Carl Gustav Carus  
TU Dresden  
Building 91  
Fiedlerstr. 42  
01307 Dresden, Germany

**Diagnostic-Internal-Neurological Center - DINZ**

Medical Faculty Carl Gustav Carus  
TU Dresden  
Building 27  
Fetscherstr. 74  
01307 Dresden, Germany

## Date

1–5 July, 2018

## Organisers

European Society for Microcirculation (ESM)  
http://www.esmicrocirculation.eu/

European Vascular Biology Organization (EVBO)  
https://evbo.org/

## Conference Chairs

**Henning Morawietz**  
TU Dresden  
Chairman Strategy Committee  
European Society for Microcirculation  
Member European Vascular Biology Organization  
Medical Faculty Carl Gustav Carus  
Division of Vascular Endothelium and Microcirculation

**Richard Slow**  
King’s College London  
Chairman Strategy Committee  
European Society for Microcirculation  
Member European Vascular Biology Organization  
Vice-Dean (International)  
Faculty of Life Sciences & Medicine  
King’s College London
<table>
<thead>
<tr>
<th>Programme Committee</th>
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<tbody>
<tr>
<td>Georg Breier (Dresden)</td>
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<td>Jaap van Buul (Amsterdam)</td>
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<td>Triantafyllos Chavakis (Dresden)</td>
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<td>Andreas Deussen (Dresden)</td>
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<td>Jozef Dulak (Kraków)</td>
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<td>Ali El-Armouche (Dresden)</td>
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<td>Lorenz Hofbauer (Dresden)</td>
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<td>Henning Morawietz (Dresden)</td>
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<td>Giovanni Mann (London)</td>
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<td>Thomas Noll (Dresden)</td>
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<td>Jeremy Pearson (London)</td>
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<td>Richard Siow (London)</td>
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<th>Conference organisation and abstract information</th>
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<tr>
<td>Prof. Dr. Henning Morawietz</td>
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<tr>
<td>TU Dresden, Medical Faculty Carl Gustav Carus</td>
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<tr>
<td>Division of Vascular Endothelium and Microcirculation</td>
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<td>Fetscherstr. 74</td>
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<tr>
<td><a href="mailto:Henning.Morawietz@tu-dresden.de">Henning.Morawietz@tu-dresden.de</a></td>
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<td><a href="https://www.uniklinikum-dresden.de/medmiz">https://www.uniklinikum-dresden.de/medmiz</a></td>
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<th>Sponsorship Information</th>
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<tr>
<td>Susann Reichel</td>
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<tr>
<td>TU Dresden, Medical Faculty Carl Gustav Carus</td>
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<tr>
<td>Referat Drittmittelmanagement</td>
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<td>Fax: +49 (0)351 458 57 06</td>
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<tr>
<td><a href="mailto:Susann.Reichel@uniklinikum-dresden.de">Susann.Reichel@uniklinikum-dresden.de</a></td>
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<tr>
<td><a href="http://www.tu-dresden.de/med">www.tu-dresden.de/med</a></td>
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Invited speakers

Charalambos Antoniades (Oxford)  Boy Houben (Maastricht)
Graeme M. Birdsey (London)    Esther Lutgens (Amsterdam)
Reinier A. Boon (Frankfurt/Amsterdam)  Ferdinand le Noble (Karlsruhe)
Jaap van Buul (Amsterdam)  Jeremy Pearson (London)
Triantafyllos Chavakis (Dresden)  Ulrich Pohl (Munich)
Marta Cześnikiewicz-Guzik (Glasgow/Kraków)  Katrin Schröder (Frankfurt)
Józef Dulak (Kraków)  Angela Shore (Exeter)
Tomasz Guzik (Glasgow/Kraków)  Markus Sperandio (Munich)
Henner Hanssen (Basel)  Fiona Wilkinson (Manchester)

Scientific programme

1st ESM/EVBO Summer School, July 1-5, 2018, Dresden, Germany

Proposed Schedule:

Sunday (July 1)
18:00 Welcome address and organizational remarks: Gerhard Rödel (Dresden), Henning Morawietz (Dresden), Richard Siow (London)
18:30 Charalambos Antoniades (Oxford): Crosstalk between adipose tissue and the cardiovascular system
19:00 Get-together

Monday (July 2)
Introductory lecture to topic of methods seminar A
9:00 Reinier A. Boon (Frankfurt/Amsterdam): Regulation of InRNAs and epigenetics in response to flow
9:30-12:30 Methods seminar A, B, C (10 students per group)
A) Application of shear stress to endothelial cells (ibidi)
B) Vascular function ex vivo: Mulvany myograph (DMT)
C) Vascular function in vivo: Retinal vessel analysis (Imedos)
12:30-14:00 Lunch, Excursion to Max Planck Institute of Molecular Cell Biology and Genetics
Oral presentations
14:00 Angela Shore (Exeter): Impact of cardiovascular risk factors on microvascular function
14:30 Jaap van Buul (Amsterdam): Leukocyte - Endothelium interactions: A local affair
15:00 Triantafyllos Chavakis (Dresden): Del-1 and endothelial-leukocyte interaction
15:30-16:00 Coffee break
16:00-16:30 Markus Sperandio (Munich): Blood cell development during mouse fetal ontogeny in vivo
16:30-17:00 Richard Siow (London): Regulation of microRNAs by flow
17:00-18:00 Posters of PhD students Part 1 + Meet the experts
Social activity (City Beach)

Tuesday (July 3)
Introductory lecture to topic of methods seminar B
9:00 Katrin Schröder (Frankfurt): NADPH oxidases and vascular function
9:30-12:30 Methods seminar A, B, C (10 students per group)
A) Application of shear stress to endothelial cells (ibidi)
B) Vascular function ex vivo: Mulvany myograph (DMT)
C) Vascular function in vivo: Retinal vessel analysis (Imedos)
12:30-14:00 Lunch, Excursion to Center of Regenerative Therapies Dresden
14:00-15:30, coffee break, 16:00-17:00. Oral presentations:
14:00 Graeme M. Birdsey (London): Control of endothelial homeostasis
14:30 Józef Dulak (Kraków): Cardiovascular functions of heme oxygenase-1: more than cytoprotection
15:00 Ferdinand le Noble (Karlsruhe): Vascular development and differentiation
15:30-16:00 Coffee break
16:00 Esther Lutgens (Amsterdam/Munich): Atherosclerosis, lipids and immune cells
16:30 Marta Cześnikiewicz-Guzik (Glasgow/Kraków): Models of systemic inflammation in vascular biology
17:00-18:00 Posters of PhD students Part 2 + Meet the experts
Individual social activity

Wednesday (July 4)
Introductory lectures to topic of methods seminar C
9:00 Fiona Wilkinson (Manchester): Endothelial microparticles: Pathogenic or passive players in endothelial dysfunction?
9:30 Boy Houben (Maastricht): Microvascular function in (pre)diabetic patients - The Maastricht study
10:00 Henner Hanssen (Basel): Retinal vessel analysis: Biomarker of cardiovascular risk
10:30-13:30 Methods seminar A, B, C (10 students per group)
A) Application of shear stress to endothelial cells (ibidi)
B) Vascular function ex vivo: Mulvany myograph (DMT)
C) Vascular function in vivo: Retinal vessel analysis (Imedos)
13:30-14:00 Lunch
Social activity (Saxon Switzerland)

Thursday (July 5)
9:00 Henning Morawietz (Dresden): How to write your paper
10:00-10:30 Coffee break
10:30 Tomasz Guzik (Glasgow/Kraków): How to publish in Cardiovascular Research
11:00 Jeremy Pearson (London): How to get funding for your research
11:30-12:00 Closing Remarks Henning Morawietz (Dresden), Richard Siow (London)

Poster sessions

Monday (July 2)
17:00-18:30 Posters of MD/PhD students Part 1 + Meet the experts
Uneven numbers (P1-P29) selected from submitted abstracts

Tuesday (July 3)
17:00-18:30 Posters of MD/PhD students Part 2 + Meet the experts
Even numbers (P2-P30) selected from submitted abstracts
Topics

Abstracts
We invite you to submit your abstract for poster presentation. Conference language will be English.

Abstract Submission
Abstracts can be submitted via e-mail to Henning.Morawietz@tu-dresden.de until 15 April 2018.
Instructions for abstract preparation
- Abstracts should be written in English.
- Font: Arial 10 pt, single-spaced.
- Do not use more than one page for your abstract, please.
Title: One initial capital letter followed by lower case letters.
Use bold letters.
Author: Start new line for authors.
The presenting author should be underlined.
Address: Start new line for the address.
Structure your abstract in: **Aims**, **Methods and results** and **Conclusions**.

Please provide the following information:
Presenting author:
Email:

Please send your abstracts to: Henning.Morawietz@tu-dresden.de.

An abstract example can be found here:

**NADPH oxidase 4 protects against development of endothelial dysfunction and atherosclerosis in LDL receptor deficient mice**

Heike Langbein¹*, Coy Brunssen¹*, Anja Hofmann¹, Peter Cimalla², Melanie Brux¹, Stefan R. Bornstein*, Andreas Deussen³, Edmund Koch³, Henning Morawietz¹

¹Division of Vascular Endothelium and Microcirculation, Department of Medicine III, University Hospital Carl Gustav Carus Dresden, Technische Universität Dresden, Dresden, Germany;
²Department of Anesthesiology and Intensive Care Medicine and Clinical Sensing and Monitoring, University Hospital Carl Gustav Carus Dresden, Technische Universität Dresden, Dresden, Germany;
³Department of Medicine III, University Hospital Carl Gustav Carus Dresden, Technische Universität Dresden, Dresden, Germany;
*Institute of Physiology, Medical Faculty Carl Gustav Carus, Technische Universität Dresden, Germany
*Both first authors contributed equally to this study.

**Aims:** Endothelial dysfunction is an early step in the development of atherosclerosis. Increased formation of superoxide anions by NADPH oxidase Nox1, 2, and 5 reduces nitric oxide availability and can promote endothelial dysfunction. In contrast, recent evidence supports a vasoprotective role of H₂O₂ produced by main endothelial isoform Nox4. Therefore, we analysed the impact of genetic deletion of Nox4 on endothelial dysfunction and atherosclerosis in the low-density lipoprotein receptor (Ldlr) knockout model.

**Methods and results:** Ex vivo analysis of endothelial function by Mulvany myograph showed impaired endothelial function in thoracic aorta of Nox4⁻/⁻/Ldlr⁻/⁻ mice. Further progression of endothelial dysfunction due to high-fat diet increased atherosclerotic plaque burden and galectin-3 staining in Nox4⁻/⁻/Ldlr⁻/⁻ mice compared with Ldlr⁻/⁻ mice. Under physiological conditions, loss of Nox4 does not influence aortic vascular function. In this setting, loss of Nox4-derived H₂O₂ production could be partially compensated for by nNOS upregulation. Using an innovative optical coherence tomography approach, we were able to analyse endothelial function by flow-mediated vasodilation in the murine saphenous artery in vivo. This new approach revealed an altered flow-mediated dilation in Nox4⁻/⁻ mice, indicating a role for Nox4 under physiological conditions in peripheral arteries in vivo.

**Conclusions:** Nox4 plays an important role in maintaining endothelial function under physiological and pathological conditions. Loss of Nox4-derived H₂O₂ could be partially compensated for by nNOS upregulation, but severe endothelial dysfunction is not reversible. This leads to increased atherosclerosis under atherosclerotic prone conditions.
Abstract review
The abstract selection committee will review the abstracts. 30 abstracts will be selected as poster presentations in the sessions of the meeting. Presenting authors will be notified on April 30, 2018, regarding the results of the abstract review.

Registration
The presenting author must be a registered participant. Please note that the presenting author is not automatically registered by submitting an abstract. Regular registration is obligatory and binding and implies payment of the registration fee.

Accommodation
The registration fee includes the accommodation. The participants of the Summer School will stay in the art’otel Dresden.

Pictures at: https://www.artotels.com/dresden-hotel-de-d-01067/gerdrrart/

The hotel has been designed by artist A. R. Penck. He was born in Dresden. Penck's artwork was rejected in East Germany. In the eighties, Penck moved to Cologne. Since then, Penck has worked continuously as an artist in Dublin, Berlin, Düsseldorf, London and New York. Penck died on 2 May 2017 in Zürich. His paintings are on display in renowned galleries in Dresden, Frankfurt, Zürich, Hamburg, Amsterdam and New York City (MoMA).

The art’otel offers breakfast buffet and free high-speed Wi-Fi. The hotel is located in walking distance to the city center, the city beach, station Dresden-Mitte and different tram stops. Tram line no. 6 brings you in 17 minutes to the site of the Summer School at the University Clinics.

Registration fee

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<th>Summer School fee</th>
<th>Please until May 15, 2018</th>
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<tr>
<td>MD/PhD student*/Young postdoc</td>
<td>EUR 300</td>
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* Student status to be confirmed with copy of Student Card or a letter from the Head of Department. Please provide proof by e-mail to Henning.Morawietz@tu-dresden.de.

The registration fee includes accommodation in the art’otel Dresden. We have reserved a number of rooms at a special rate for the participants of our Summer School. Please confirm your participation immediately after abstract acceptance. We should inform the hotel about the exact date/s of your arrival/depature until May 31, 2018.
Social programme (included)

Get-together (July 1, 2018)
City beach (July 2, 2018)
Excursion to Saxon Switzerland (July 4, 2018)
Travel to Dresden

Dresden is centrally located in Europe and can be reached by plane, train or car.

The city has a well-developed public transport system. You can search for connections using the website of “Dresdner Verkehrsbetriebe” (DVB): https://www.dvb.de/en-gb/.

By plane:
From the airport “Dresden International”
- By taxi – stop in front of the airport terminal building. Go to “art’otel Dresden / Ostra-Allee 33” (hotel) or “Fiedlerstraße / Universitätsklinikum” (Summer School site) (approx. 25 €)
- By rail “S-Bahn” S2 – from the underground of the terminal building – till railway station “Dresden-Mitte” or “Dresden-Neustadt”. Alternatively, take Bus SEV to station “Dresden-Klotzsche” and change to S-Bahn” S2 or to “Dresden-Neustadt”. Here till railway station “Dresden-Mitte”. The shuttle goes every 20 minutes (at ticket vending machine single ticket “Einzelfahrschein” (2.30 €)).
- The hotel is in close walking distance to the railway station “Dresden-Mitte”. If you want to go from the hotel to the Summer School site take tram no. 6 (direction “Niedersedlitz”) to station “Augsburger Straße / Universitätsklinikum” (17 min).
- If you want to go directly to the Summer School site from the airport leave “S-Bahn” S2 (or currently Bus SEV) at railway station “Dresden-Neustadt” and take tram no. 6 (direction “Niedersedlitz”) to station “Augsburger Straße / Universitätsklinikum”.

By train:
- If your train stops at “Dresden-Mitte” you can walk directly to the hotel.
- If you leave at “Dresden-Neustadt” take “S-Bahn” S2 or tram no. 6 – direction “Bf. Mitte-Löbtau-Wölfnitz” to “Dresden-Mitte”.
- If you leave at Dresden main station (Hauptbahnhof) please take “S-Bahn” S2 or tram no. 10 – direction “Messe Dresden” to “Dresden-Mitte” to the hotel.
- If you want to go to the Summer School site from the hotel take tram no. 6 (direction “Niedersedlitz”) to station “Augsburger Straße / Universitätsklinikum” (17 min).
- If you want to go directly to the Summer School site from the railway station leave at “Dresden-Neustadt” and take tram no 6 (direction “Niedersedlitz”) to station “Augsburger Straße / Universitätsklinikum”. If you leave at Dresden main station (Hauptbahnhof) please take tram no. 3 (direction “Wilder Mann”), no. 7 (direction “Weixdorf”) or 8 (direction “Hellerau”) to “Pirnaischer Platz” and change to tram no. 12 (direction “Striesen”) till station “Augsburger Straße / Universitätsklinikum”. Alternatively, take from Dresden main station (Hauptbahnhof) tram no. 10 (direction “Striesen”) to “Fetscherplatz” and change to tram no. 12 (direction “Striesen”) till station “Augsburger Straße / Universitätsklinikum”.
- Single ticket “Einzelfahrschein” at ticket vending machine: 2.30 €.
- Alternatively, you might take a taxi from “Dresden-Neustadt” or “Dresden-Hauptbahnhof.”
By car:
You can reach Dresden by car taking highways ("Autobahn") A4 (Frankfurt - Görlitz), A13 (Berlin) or A17 (Prague). The University Clinics and the hotel are centrally located and can be reached by all individual exits.
- The address of the art'otel (https://www.artotels.com/dresden-hotel-de-d-01067/gerdrart) is "Ostra-Allee 33, 01067 Dresden". Parking fee is not included in the reservation but can be individually arranged in closely located parking garages and areas.
- The address of the University Clinics is "Fetscherstr. 74, 01307 Dresden". You could use the parking deck at the main entrance.

City map indicating the location of the University Clinics
Map of University Clinics with Summer Schools sites and tram stop (red circles)

By car:
1. Motorway “Autobahn” A4
2. Junction “Dresden – Hellerau / Zentrum”
3. Follow the signs in direction city center “Zentrum” (roads: Radeburger Str. / Hansastr. / Große Meißner Str. / Wigardstr.) till the Semper opera building comes into sight.
4. Turn left and immediately afterwards right to follow the street at the right river Elbe in direction “Universitätsklinikum” (roads: Käthe Kollwitz Ufer / Fetscherstr.) till Fiedlerstraße / Universitätsklinikum (GPS: Fiedlerstr. 42, 01307 Dresden).

From direction south /west:
1. Motorway “Autobahn” A4
2. Junction “Dresden – Altstadt”
3. Follow the signs in direction city center “Zentrum” (roads: Meißner Landstr. / Hamburger Str. / Bremer Str. / Terrassenufer).
4. At the road “Terrassenufer” along the river Elbe follow the signs in direction “Universitätsklinikum” (roads: Käthe Kollwitz Ufer / Fetscherstr.) till Fiedlerstr. / Universitätsklinikum) (GPS: Fiedlerstr. 42, 01307 Dresden).

Parking:
You can park your car in the parking garage behind the main entrance of the university hospital (road: Fiedlerstraße).

By train:
1. From main station “Dresden – Hauptbahnhof”
2. Tram no. 10 at “Wiener Straße” direction “Fetscherplatz” (every 10 minutes)
3. At “Fetscherplatz” change into tram no. 4 direction “Laubegast”
4. Exit at station “Augsburger Straße / Universitätsklinikum”

Or
1. From station “Dresden Neustadt”
2. Take tram no. 6 opposite to station (stop at road “Antonstraße” ) direction “Niedersedlitz”
3. Exit at station “Augsburger Straße / Universitätsklinikum”

Tickets:
At ticket vending machine (or in the tram) get a single trip ticket “Einzelfahrschein” (2 €) or train ticket + City (Dresden) for one way. If you want to use public transport more frequently, 4-trip cards (“4er Karte”), or one-day tickets might be good options. For more information please visit: http://www.dvb.de/en/Homepage/.
Sponsorship and Exhibition

The 1st Summer School of the European Society for Microcirculation (ESM) and the European Vascular Biology Organization (EVBO) is accompanied by a specialized industrial exhibition.

For questions regarding exhibit and sponsor information, please contact:

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Susann.Reichel@uniklinikum-dresden.de
www.tu-dresden.de/med

We thank the following sponsors for their kind support!

Gold Sponsor

Sponsors
Contact

Summer School chairs
Henning Morawietz (TU Dresden)
Richard Siow (King’s College London)

Conference organisation and abstract information
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See you in Dresden!