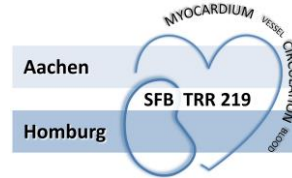


# Joint Summer School of the ESAO, EUTox working group, Strategy-CKD & SFB/TRR219 IRTG



## Contact/Organizer

### University Hospital RWTH Aachen

Institute for Molecular Cardiovascular Research (IMCAR)  
Prof. Dr. Joachim Jankowski & PD Dr. Heidi Noels

Medical Clinic I - Cardiology  
PD Dr. Claudia Goettsch

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Prof. Dr. Goce Spasovski

## Organization

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## Emerging and future technologies to remove uremic toxins: tackling cardiovascular complications in kidney failure

Did you know that since the discovery of dialysis the technology has not innovated that much? But that the number of patients, with associated comorbidities like cardiovascular diseases, is incredibly rising? Different pathological processes underlie increased cardiovascular risk in patients with chronic kidney disease, and clinicians and basic scientists are working side by side to reveal mechanistic insights. This is required for improvements in both the diagnosis and treatment of patients. This course is meant for future scientists in experimental nephrology and cardiovascular diseases and will equip you with the knowledge needed to make a change for kidney patients through accelerating insights into the underlying pathology of chronic kidney disease and associated cardiovascular disease, trends in dialysis technology, regenerative nephrology and artificial intelligence. The course is meant for PhD/Dr med students and young postdocs with a background in biomedical, technological or pharmaceutical sciences and concerns diverse trainings and workshop activities along with social events.

## Meeting venue

Limak Skopje Hotel  
Str. Jordan Mijalkov No.31  
Skopje 1000  
Republic of Macedonia

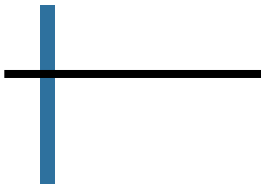


### Summer School as networking & visibility platform

- ✓ Guided poster presentations by all participants
- ✓ With three oral presentations by participants selected based on the submitted abstracts
- ✓ With award for the three best posters

### Summer School as scientific development platform

- ✓ With active learning session on grant writing
- ✓ With active learning session on research innovation



## Sponsoring

### *Day 1: Wednesday 21 September 2022 - Opening and introduction*

**Moderator: Prof. Dr. Roos Masereeuw**

- 08.30 - 09.00 Introduction to the Winterschool  
**Prof. Dr. Goce Spasovski**
- 09.00 - 09.15 Introduction to ESAO and the EUTOX working group  
**Prof. Dr. Joachim Jankowski**
- 09.15 - 09.30 Introduction to SFB/TRR219 IRTG  
**PD. Dr. Claudia Goettsch**
- 09.30 - 09.45 Introduction to the Marie Skłodowska-Curie ITN "Strategy-CKD"  
**Prof. Dr. Griet Glorieux**
- 09.45 - 10.00 Introduction to group assignments  
**Prof. Dr. Roos Masereeuw**
- 10.00 - 10.30 **Tea & coffee break**
- 10.30 - 12.00 Who is who: Speed-dating!**  
TBC
- 12.00 - 13.30 Guided poster tour – Part I (with lunch)**

### *The basics: the kidney and its pathological crosstalk with the heart*

**Moderator: Prof. Dr. Joachim Jankowski**

- 13.30 - 14.00 Epidemiology  
**Prof. Dr. Alberto Ortiz**
- 14.00 - 14.30 Glomerular disease  
**Prof. Dr. Jürgen Floege (online)**
- 14.30 - 15.00 Tour along the nephron: basic  
**Prof. Dr. Stéphane Burtey**
- 15.00 - 15.30 Tour along the nephron: clinical  
**Prof. Dr. Mariano Rodriguez**
- 15.30 - 16.30 **Physical break: Social event**
- 16.30 - 17.00 Cardiovascular disease in CKD  
**Prof. Dr. Angel Argiles**
- 17.00 - 17.30 Impact of posttranslational modification on CKD and CVD  
**Prof. Dr. Vera Jankowski**
- 17.30 - 19.00 **Guided poster tour – Part II (with cheese, snacks & wine)**
- 19.00 – 19.30 Refreshment break**

### *Active learning – session: Project Development in Research Innovation*

**Moderator: PD Dr. Claudia Goettsch**

- 19.30 - 19.45 Introduction  
**Prof. Dr. Roos Masereeuw**
- 19.45 - 21.00 Group assignments: 'Innovation in artificial kidney'  
**Dr. Dorothea Piecha**
- 21.00 - 22.00 Presentations Groups

**Day 2: Thursday 22 September 2022**

**Kidney failure: consequences and treatments**

**Moderator: PD Dr. Heidi Noels**

- 08.30 - 09.00 Vascular calcification  
**PD Dr. Claudia Goettsch**
- 09.00 – 09.30 Increased thrombotic and bleeding risk in CKD  
**PD Dr. Heidi Noels**
- 09.30 - 10.00 Dialysis  
**TBC**

**10.00 - 10.30 Tea & coffee break**

- 10.30 - 11.00 Kidney transplantation  
**Prof. Dr. Goce Spasovski**
- 11.00 - 11.30 Patient interview  
**Prof. Dr. Roos Masereeuw**

**11:30 - 13.00 Lunch with open poster discussions & networking**

**Active learning – session 2: Pitch your grant**

**Moderator: Prof. Dr. Griet Glorieux**

- 13.00 - 13.30 How to write a successful grant  
**Prof. Dr. Griet Glorieux, Prof. Dr. Tonia Vlahou**
- 13.30 - 15.00 Group assignment: write a high risk/high gain grant

**15.00 - 16.30 Social event**

**Keynote lectures**

**Moderator: Prof. Dr. Goce Spasovski**

- 17.00 – 18.00 Keynote lecture: Kidney health and the EU: the end of the tunnel?  
**Prof. Dr. Raymond Vanholder**

**18.00 - 22.00 Dinner & social event**

**Day 3: Friday 23 September 2022**

**Emerging technologies**

**Moderator: Prof. Dr. Angel Argiles**

- 08.00 - 08.30 Biomaterials in nephrology  
**Prof. Dr. Dimitrios Stamatialis**
- 08.30 - 09.00 Regenerative nephrology  
**Prof. Dr. Maria Stangou**
- 09.00 - 09.30 Computational ecosystem for clinical application of organ cross-talk (TBC)

**09.30 - 10.00 Tea & coffee break**

- 10.00 - 10.30 Disease modifying therapies: lesson from Fabry and ADPKD  
**Prof. Dr. Merita Roji**
- 10.30 - 11.00 Treatment option of post-translational modification of proteins in CKD, TBC
- 11.00 - 11:30 Comorbidities heart-kidney axis: towards insight into molecular mechanisms  
**Prof. Dr. Joachim Jankowski**

**11.30 - 12.30 Lunch with open poster discussions & networking**

**Research Mini symposium: Industry Insights into Kidney-Heart Crosstalk & Emerging technologies**

**Moderator: Prof. Dr. Vera Jankowski**

- 12.30 - 13.00 Novel technologies for treatment of renal failure  
**Dr. Dorothea Piecha (Fresenius Medical Care)**
- 13.00 - 13.30 New development in plasmapheresis  
**TBC**

**Keynote presentations & awards**

**Moderator: Prof. Dr. Goce Spasovski & Joachim Jankowski**

- 13.30 - 14.30 Three selected oral presentations of participants (based on abstract)
- 14.30 – 14.45 Poster awards**
- 14.45 - 15.30 Tea & coffee break & Goodbye**