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

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

Skopje, Republic North Macedonia, 21-23 September 2022

Contact/Organizer

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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
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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08.30 - 09.00</td>
<td>Introduction to the Winterschool</td>
<td>Prof. Dr. Goce Spasovski</td>
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<tr>
<td>09.00 - 09.15</td>
<td>Introduction to ESAO and the EUROTOX working group</td>
<td>Prof. Dr. Joachim Jankowski</td>
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<td>09.15 - 09.30</td>
<td>Introduction to SFB/TRR219 IRTG</td>
<td>PD. Dr. Claudia Goettsch</td>
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<td>09.30 - 09.45</td>
<td>Introduction to the Marie Skłodowska-Curie ITN “Strategy-CKD”</td>
<td>Prof. Dr. Griet Glorieux</td>
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<td>09.45 - 10.00</td>
<td>Introduction to group assignments</td>
<td>Prof. Dr. Roos Masereeuw</td>
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<tr>
<td>10.00 - 10.30</td>
<td>Tea &amp; coffee break</td>
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<td>10.30 - 12.00</td>
<td>Who is who: Speed-dating!</td>
<td>TBC</td>
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<tr>
<td>12.00 - 13.30</td>
<td>Guided poster tour – Part I (with lunch)</td>
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**The basics: the kidney and its pathological crosstalk with the heart**

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

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<tr>
<td>19.30 - 19.45</td>
<td>Introduction</td>
<td>Prof. Dr. Roos Masereeuw</td>
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<tr>
<td>19.45 - 21.00</td>
<td>Group assignments: ‘Innovation in artificial kidney’</td>
<td>Dr. Dorothea Piecha</td>
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<tr>
<td>21.00 - 22.00</td>
<td>Presentations Groups</td>
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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 Rroji

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