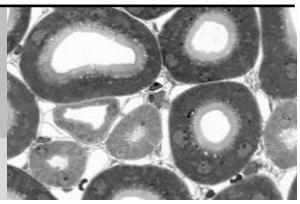

RENPRO Basic Nephrology Course 2025

Date: April 8 – 10, 2025
Place: Universität Regensburg
Target group: Compulsory for PhD students of the TRR 374
open for medical doctoral students, PostDocs and Clinician Scientists in the TRR 374, and for interested doctoral students (via the graduate schools)
Credit Points: Full participation can be counted as a method course with 0.9 CPs within the Curriculum of the Graduate Schools (RIGel, BioMediGS, life@FAU)
Maximum number of participants: 20

Registration: by March 2, 2025

via the following link (password-protected form):
https://terminplaner6.dfn.de/b/491ed4a41da937de82afc6ea34006a25-1015051

Non-TRR-members (doctoral students from the graduate schools) please register informally by email to: michaela.kritzenberger@ur.de

Please note: Course places will be given preferentially to TRR members. You will be informed of your course participation shortly after the registration deadline.

Contact: michaela.kritzenberger@ur.de

Contents & Schedule:

Tuesday, April 8	**Microscopic and macroscopic anatomy of the kidney**	
09:30h	**Welcome** Place: Seminarraum Physiologie (4.1.29)	R. Warth/ F. Schweda
10:00h	**Macroscopic anatomy: anatomical demonstration** Place: Präparier-Saal • Cardiovascular System (overview) • Retroperitoneal space and anatomy of the kidney	N.N.
12:00h	Lunch and discussion	
13:00h	**Microscopic anatomy of the kidney: lecture and practical histology course** Place: Histo-Saal	R. Witzgall
15:00h	**Coffee break**	
15:30h	**Practical histology course continued**	R. Witzgall

Wednesday, April 9	**Renal physiology and pathophysiology: Electrolyte- and water balance, acid-base homeostasis**	
08:30h	**Physiology of the glomerulus and tubular system of the kidney:** Lecture Place: Seminarraum Physiologie (4.1.29)	F. Schweda
10:00h	Coffee break	
10:30h	**Physiology of the glomerulus and tubular system of the kidney:** Continued	F. Schweda
12:00h	Lunch	
13:00h	**Practical Course** Place: Praktikumsraum 4.003 **Determination of:** • osmolality by measurement of freezing point depression • urea concentration in plasma and urine by the urease-GLDH method • Na^+, K^+, and Cl^- -concentrations with ion-sensitive electrodes • bicarbonate concentration from pH and pCO_2 using the Henderson-Hasselbalch equation • creatinine concentration in plasma and urine	R. Warth
19:00h	**Get together** Unikat	

Thursday, April 10	**Renal physiology and pathophysiology: Insterstitium Regulation of blood pressure**	
08:30h	**Practical course: Evaluation and Discussion** Place: Praktikumsraum 4.003	R. Warth
10:30h	Coffee break	
11:00h	Kidney interstitium - Lecture Place: Seminarraum Physiologie (4.1.29)	K. Broeker
12:00h	Lunch	
13:00h	**Regulation of blood pressure** - Lecture Place: Seminarraum Physiologie (4.1.29) Short term regulation Endocrine system and long-term regulation of blood pressure: • Renin-Angiotensin-System • ADH and Aldosteron • ANP	F. Schweda
15:00h	Coffee and Farewell	