



Join Radboud Summer School 2020!

The Ins & Outs of Kidneys - From Physiomics to Transplantation

change perspective

Radboud University



The Ins & Outs of Kidneys - from Physiomics to Transplantation

In the 1960s, people with kidney failure had little hope of survival. Dialysis was considered an extraordinary treatment and restricted to very few. Transplantation was still experimental. The rise in incidence of patients with chronic kidney disease worldwide is seen as a major health burden. Over the last decades, the technical level of research is much higher and the field of renal research uses exciting state-of-the-art methods to uncover new mechanisms in renal physiology and pathophysiology. For example, the identification of the genes and mutations involved in a variety of human kidney diseases has participated in the growth of knowledge and the appearance of new fields of renal research, podocyte biology, ciliopathies, and cystic diseases, as well as the role of the kidney in blood pressure regulation. New insights in renal research has also led to a new approach to treating kidney diseases and the renal complications of diabetes. Advances in surgical techniques and immunosuppression have made kidney transplantation a more cost-effective alternative to dialysis.

This summer school course will be organized around renal research in general and the contemporary research in Nijmegen in particular, examining all aspects of kidney function.

During the course you will take part in interactive lectures, combined with practicals on modern molecular techniques. You will be provided with hands-on demonstration at research labs and will be able to visit a modern

renal dialysis unit at the hospital. After completing this course, you should have gained a basic understanding of renal research, be able to understand the molecular techniques behind renal research and apply the principles of renal mechanisms to the understanding and treatment of kidney diseases.

After this course you are able to

- Understand renal physiology in depth.
- Understand molecular techniques employed in renal research and interpret experimental results.
- Interpret the latest insights in nephrology, hypertension, dialysis and transplantation.
- Explain the mechanisms behind kidney disorders, hypertension and channelopathies.



Course leaders

Dr. Jojanneke Huck & Prof. Joost Hoenderop
Department Physiology
Radboud University Medical Center

This course is designed for

Master's students (in Medicine, Biomedical Sciences, Biology or related disciplines) and for aspiring and early stage PhD students as well as post-docs who are currently working or are planning to start working in the field of renal research.

Academic level

Master, PhD and Post-doc

Course date

6 July - 10 July 2020

Course fee

€ 500

Discounts

- 10% discount for early bird applicants. The early bird deadline is 1 March 2020.



- 15% discount for students and PhD candidates from partner universities. Please note that these discounts can be combined if you apply before 1 March 2020.

Deadline application

1 May 2020

Detailed course information

www.ru.nl/summerschool/kidneys



The smart way to spend your summer!

Why join us?

- Be taught by renowned and dedicated lecturers from Radboud University and our international partners.
- Get valuable in-depth insights and train your academic skills.
- Become part of our international community.
- Get great value for money.
- Spend your summer in the oldest city of the Netherlands.
- Have fun during our social activities. Previous editions included a river cruise, bubble football and our famous city game.

What do our previous students think?

"I was returning home having made new friends, built stronger international networks and more importantly gained more knowledge in my field of study." - Noluvuyo

"Nijmegen is the most underrated town in The Netherlands. [...] Over the two weeks at Radboud University I was able to interact with people from every corner of the world!" - Nicola



In the end, our former participants are our best ambassadors! You will find more impressions on our website.

Contact

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