Join Radboud Summer School 2019!

Personalized Medicine 101

change perspective

Radboud University
Personalized Medicine 101

Personalized or precision medicine relies on tailor-made diagnosis and treatments for patients, based on the differences among the molecular background of individuals. This challenging medical area needs the specific training of professionals for the detailed knowledge about genomic structure and dynamics and advanced molecular biology techniques. Personalized Medicine 101 intends to be a fundamental platform for understanding the basis and applications of Molecular Biology to the medical field.

The course will be structured in theoretical lectures and practical tutorials, mainly based on the use of web-based databases and tools, all of them followed by guided discussions, to cover the following modules:

- Module 1: Human genome structure and dynamics
- Module 2: Human genetic variation and pathological consequences
- Module 3: Genome Wide Association Studies (GWAS) and their applications to clinics
- Module 4: Basics on Pharmacogenomics and Pharmacogenetics: practical clinical cases
- Module 5: Advanced therapeutics
- Module 6: Computer Aided Drug Design (CADD)

After this course you are able to

- Understand the complex human genomes
- Translate the human genomic context into specific diagnosis and treatment
- Utilize databases to retrieve genomic data
- Understand the rational drug-design methods and applications
- Understand the concepts of Pharmacogenomics and Pharmacogenetics and their practical applications to clinics
- Understand the molecular basis for advanced therapeutic strategies

Number of EC

2 ECTS credits

Course leader

Francisco J. Enguita, assistant professor & senior investigator, University of Lisbon, Portugal
**Admission documents**  
Motivation letter and CV

**Entry level**  
Advanced Bachelor, Master, PhD and Postdoc

**This course is designed for**  
Biomedical students who are willing to apply the methodology of personalized medicine into their clinical practice, and those interested in advanced techniques and protocols for rational drug design and therapeutics

**You can find more details about this course on our website**

**Course date**  
Monday 12 August - Friday 16 August 2019

**Course fee**  
€ 600

**Deadline application**  
1 June 2019

**Discounts**  
- 10% discount for early bird applicants. The early bird deadline is 1 March 2019.
- 15% discount for students and PhD candidates from partner universities. Please note that these discounts can be combined if you apply before 1 March 2019.

**Apply now!**
What is the RSS experience?

RSS is more than just a course!

Radboud Summer School offers you a unique opportunity to meet other students and researchers from all over the world with different cultural and academic backgrounds. You will also get to know Radboud University and the city of Nijmegen.
Our social programme includes a welcome reception, guest lecture and farewell drinks. And for a small fee you can join our BBQ, River Cruise on a pancake boat, a Pub Quiz, Sports Activities or a City Game.

Want to know more?
Have a look at what participants have said about their experience on our website!

Contact
T. +31-248187706
E: Radboudsummerschool@ru.nl
F: RadboudSummerSchool
I: Radboudsummerschool

www.ru.nl/radboudsummerschool