Join Radboud Summer School 2019!

Molecules, Mice and Math: A Statistical Toolbox for the Lab

change perspective

Radboud University
Why do I always repeat my experiments 3 times? Can I reuse the data of my animal pilot experiment? Why is my experiment not significant, although I clearly see an effect? These are a few of the questions that basic laboratory scientists encounter every day. In this course we will address these questions!

We will discuss a range of different topics related to in vivo and in vitro laboratory experiments:
• How can I make a smart and efficient design for my experiment?
• What types of data will I encounter and what is the appropriate statistical analysis?
• Can I perform a statistical analysis that increases the probability that I will have significant results?
• How can I determine the sample size for my experiment?
• What to do with outliers?
• How to handle variation?
• How to visualise your data for publication?

We will make use of SPSS for the analysis. We will also briefly discuss the information you should provide in the method section of a scientific paper.

If you have specific questions about your own data, this course will have time dedicated for questions to an experienced statistician.

Course leader
A.F.J. de Haan, Assistant Professor Biostatistics, Radboud Institute for Health Sciences, Radboudumc

After this course you are able to
• Design laboratory and small animal studies, including sample size calculations
• Identify the type of data that you get out of your experiments
• Select the best way of analysing and interpreting your in vitro and in vivo data
• Write a proper method section for manuscripts

Admission documents
CV

Entry level
Master, PhD, and Postdoc

Number of EC
2 ECTS credits

This course is designed for
Biomedical scientists that perform laboratory experiments and small scale animal studies. It will be extremely valuable for PhD students, but certainly also for master students that are planning to continue doing research in the laboratory.

You can find more details about this course on our website

Course date
Monday 1 July - Friday 5 July 2019

Course fee
€ 885

Deadline application
1 May 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!

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