



# Join Radboud Summer School 2020!

Integrative X-omics Analyses Empowering Personalized Healthcare

*change perspective*

Radboud University



# Integrative X-omics Analyses Empowering Personalized Healthcare

Molecular indicators for health, disease and response to treatment are increasingly guiding personalized healthcare. At the same time, single biomarkers will never fully reflect the interplay between the genetic make-up and environmental exposure. This asks for a more holistic view on human health, and integrated analyses of large-scale molecular and clinical data.

This course will lay a firm basis for such an integrative approach. It provides a comprehensive overview of state-of-the-art biomarker discovery strategies using -omics analysis platforms, gives practical cues to the most fit-for-purpose experimental approaches, based on real-life examples.

The basic principles and workflows of genomics, proteomics, metabolomics and data analysis, integration and stewardship will be covered.

The course will contain demonstrations and hands-on computer practical's of commonly used open-source analysis and visualization packages.

Special attention will be paid to the different analysis to integrate X-omics data from different levels, ranging from pure statistical integration approaches (including machine learning) to knowledge-based data integration.

## After this course you are able to

- Design an X-omics experiment and able to choose the most adequate -omics technologies.
- Master basic analysis workflows for -omics data.
- Understand the advantages and disadvantages of different data integration strategies.

## Course leaders

- P.A.C. 't Hoen, Professor of Bioinformatics, Center for Molecular and Biomolecular Informatics, Radboud University Medical Center
- A.J. van Gool, Professor Personalized Healthcare, Laboratory Medicine, Radboud University Medical Center



## This course is designed for

Translational researchers who would like to set-up or are starting a molecular biomarker profiling study in human individuals.

## Academic level

Master and PhD

## Course date

6 - 10 July 2020

## Course fee

€ 600

## 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



## Social Events

During our events you will have the opportunity to meet other international students, researchers and professionals from various academic disciplines and countries which offers you a great opportunity to increase your international network

## Detailed course information

[www.ru.nl/summerschool/xomics](http://www.ru.nl/summerschool/xomics)



# 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

+31 24 8187706

[radboudsummerschool@ru.nl](mailto:radboudsummerschool@ru.nl)

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