

COURSE

Big Data Analysis in the Life Sciences

20 – 23 October 2025

Wageningen Campus, the Netherlands



BACKGROUND COURSE

Technological and scientific advances have pushed the Life Sciences into the BIG data era. The increased volume and heterogeneity of available data challenges scientists to master techniques for comprehensive data analysis. Extracting meaningful (biological) information from large datasets is increasingly becoming a challenge in all fields of life sciences. Thus, the ability to select and deploy analysis tools and algorithms has become an indispensable skill for all researchers. In this course, we aim to introduce participants to techniques for comprehensive data analysis of large, heterogeneous datasets and extract relevant information for elucidating biological design principles. The course is modular and focuses on data generation, mining, analysis, data integration, and visualization.

COURSE AIM

To introduce participants to techniques for comprehensive data analysis of big data and to integrate heterogeneous data sets in order to extract relevant information for elucidating the living system. The course is modular and focuses on data generation, mining, analysis, data integration, and visualization.

TARGET GROUP

Anyone working with big datasets in the life sciences who has an interest in learning more about tools and possibilities for big data analysis. The course is introductory.

Required knowledge: Basic knowledge of statistics.

Prerequisite: Experience in computer programming would be useful but is not mandatory. Computer practicals will require using R. An R tutorial will be sent in advance to ensure that all participants have the required starting level.

COURSE LECTURERS

Lecturers are from the **Laboratory of Systems & Synthetic Biology (SSB)** and from the **Division of Human Nutrition and Health (HNH)** from Wageningen University & Research:

- Dr **Jasper Koehorst**, SSB
- Dr **Edoardo Saccenti**, SSB
- Dr **Cristina Furlan**, SSB
- Prof. **Maria Suarez Diez**, SSB
- Dr **Guido Hooiveld**, HNH

COURSE FEES

Affiliation	Early Bird Fee**	Regular fee
WUR PhD candidates*	€ 250	€ 300
Other PhD candidates / Postdocs & staff affiliated with VLAG	€ 475	€ 525
Other academic staff / Non-profit	€ 675	€ 725
Industry / For-profit	€ 1400	€ 1450

*Affiliated with one of the Wageningen Graduate Schools, with an approved TSP
**Early bird registration deadline is 22 August 2025.

INFORMATION & REGISTRATION

