Metabolomics: molecules of life, an introduction

Reza Salek [1]

- Chemical biology
- Beginner
- 0.5 hour

Join Reza Salek on an introductory tour of metabolomics. This webinar will help you understand what metabolomics is and how it can be used to inform biological research. It will also introduce the basics of the analytical technologies and data analysis methods commonly used in metabolomics.

This webinar was recorded on 8 February 2017. It is best viewed in full screen mode using Google Chrome.

See the EMBL-EBI training pages for a list of upcoming webinars [2].

Learning objectives:

- Describe what metabolomics is
- List some advantages and disadvantages of metabolomics methods

Learn more

Metabolomics is a complex and collaborative field. The experimental design, technologies and analysis methods used are highly dependent on the biological system you are studying and the questions you are trying to answer.

For advice, you can tap into the collective knowledge of the metabolomics community by asking questions on metabolomics forums [3].

Training in metabolomics is available through EMBL-EBI [4]. Many other courses are listed on the Metabolomics Society [5], European Metabolomics Training Coordination Group [6] (EmTraG) and Metabolomics Workbench [7] websites.

You might also be interested in our fee online courses Metabolomics: an introduction [8] and MetaboLights: Quick tour [9].

Your feedback

Please tell us what you thought about this webinar. Your feedback is invaluable and helps us to improve our courses and thus enhance your learning experience.

Contributors
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Reza Salek was awarded his PhD in Molecular Biophysics and Biochemistry from University College London, UK. Currently, he is managing and coordinating a large EU infrastructure project on metabolomics standards COSMOS (Coordination of Standards in Metabolomics) as well MetaboLights, the first open-access, general-purpose metabolomics repository curation efforts. COSMOS aims to set and promote community standards that will make it easier to disseminate metabolomics data through life science e-infrastructures. In the past Reza Salek has worked as scientific investigator at the Medical Research Council HNR unit in the Lipid Signalling group. Reza Salek is also a research visitor and former research associate at the University of Cambridge, Biochemistry Department. In addition, he is member of the Cambridge Systems Biology Centre, Cambridge Neuroscience and Cambridge Cancer Centre. In the past he has been involved in large national and international consortiums and metabolomics projects on breast cancer biomarker discovery based on integrated NMR and mass spectrometry metabolomics (MetaCancer- [10]) and animal models and clinical trials on Type 2 diabetes (GSK) and animal models of neurological disorders (Babraham Institute) during his work at Cambridge University, gaining insight working both within academic and industrial environments. Reza is also the main organizer of the “EMBO Practical Course on Metabolomics Bioinformatics for Life Scientists” for 2013 and 2014.

Source URL: https://www.ebi.ac.uk/training/online/course/metabolomics-molecules-life-introduction

Links
[1] https://www.ebi.ac.uk/training/online/trainers/reza.salek
[8] https://www.ebi.ac.uk/training/online/course/introduction-metabolomics
[9] https://www.ebi.ac.uk/training/online/course/metabolights-quick-tour-0