



# BIOS Online Seminars

## Digital Skills on Computational Biology for Health Professionals

15<sup>th</sup> & 16<sup>th</sup> of October 2020

web-based - free of charge - funded by the European Union

### What's waiting for you?

Dear interested reader, BioS course participants and alumni,

Within the framework of the Erasmus days, the BioS project offers further online seminars on modules 1 to 3 to deepen and apply the knowledge acquired in the course. We would like to invite you to join us:

The BioS project offers three online seminars on the topics:

- INTRODUCTION TO BIOINFORMATICS
- COMMERCIAL PERSONALIZED GENOMICS SERVICES IN PATIENT CARE
- COMPUTATIONAL STATISTICS FOR CLINICAL DOCTORS

The online seminars give you the opportunity to acquire valuable knowledge for your professional career, to discuss live with experts highly topical issues and to connect with peer learners all around Europe.

### Online Seminar 1:

**Systemic interpretation of data from different – omic layers and derivation of diagnostic, personalized signatures of molecular biomarkers, assisting medical decision.**

**e-nios, module 1, Thursday 15th of October, 13.00 – 15.00 CEST**

In this online seminar the audience is introduced to the secrets of multi-omic analysis and robust systemic interpretation. This process manages to reveal those active, functional, molecular modules, providing consistent, mechanistic understanding of the myriad of interactions occurring, and enables in-silico extraction of signatures of molecular biomarkers, for a more accurate and robust clinical diagnosis/prognosis. The interpretation of the various types of omics data streams is effected through the web platform BioInfoMiner of e-NIOS, integrating the results of diverse analytic workflows showcasing how to extract predictive signatures for several diseases, without requiring advanced programming skills. Two examples of the data-driven interpretation and extraction of diagnostic signatures both at the gene and variant level will be performed on case studies including data from patients suffering from different cancer types.



Online Seminar 2:  
BIOS PROJECT- COMPUTATIONAL  
STATISTICS FOR CLINICAL DOCTORS – HOW  
TO EVALUATE DIAGNOSTIC INFORMATION?

BGU, module 2, Friday, 16th of October,  
10.00 – 12.00 CEST

In this online seminar, the theoretical material taught during the BioS course is transformed into practical and applicable skills by working with contemporary examples. You will learn how to use predictive methods, such as COVID19 PCR tests, how to interpret results, and how evidence affects the test credibility.

Online Seminar 3:  
BIOS PROJECT – COMMERCIAL  
PERSONALIZED GENOMICS SERVICES IN  
PATIENT CARE – THE ROLE OF TUMOR  
GENETIC PROFILING, MOLECULAR IMAGING  
AND TARGETED THERAPIES IN THE  
TREATMENT OF NON-SMALL CELL LUNG  
CANCER

GOC, module 3, Friday, 16th of October,  
13.00 – 15.00 CEST

In this online seminar, the role of tumor genetic profiling, molecular imaging and targeted therapies in the treatment of non-small cell lung cancer will be presented.

## Registration

To participate in the BioS Online Seminar, please register under:

[https://docs.google.com/forms/d/e/1FAIpQLSfBTZyQs3pFRskynuEkocOzqzW\\_vc5TeTodxWDIG375VvrgDg/viewform](https://docs.google.com/forms/d/e/1FAIpQLSfBTZyQs3pFRskynuEkocOzqzW_vc5TeTodxWDIG375VvrgDg/viewform)

After registration, you receive the direct link to the online seminar.

More information: [www.bios-project.eu](http://www.bios-project.eu)

Contact: [laura.dorn@stw.de](mailto:laura.dorn@stw.de)

