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Statistical and machine learning techniques in human microbiome studies

WG4 Training results

Aldert Zomer & Domenia D'Elia

Cork, Ireland, June 8th, 2023



Objectives

To disseminate the results of the Action in peer-reviewed journals, on the web-portal, at international conferences and through end-user workshops. WG4 will also organise training courses and workshops in microbiome-related ML methodologies recommended by Action members.

Tasks:

- T4.1: Disseminate evaluation, optimisation and standardisation progress.
- **T4.2: Organise training courses and workshops.**



Milestones

- **M4.1: Initial workshop (Y1Q4), training courses (Y2Q3/Y3Q3) and YouTube tutorials (Y4Q3)**
- Major Deliverables:
- **D4.1-3: Reports on the workshops & training courses of best practice in ML/Stats for microbiome studies.**
- **D4.4: Educational material shared: tutorials on paper and video (including a YouTube channel).**



Training schools given

- 2019 Sarajevo “Train the trainers”
 - Local coordination of the training school was done by Kanita Karađuzović – Hadžiabdić. The TS took place 2-4 September 2019 with 13 trainers and 37 trainees
- 2021 Uppsala Virtual Training School
 - “Local” coordination was done by Erik Bongcam-Rudloff. The TS was “live” on the 27th and 28th of September and the 4th, 7th and 8th of October but **all material is also available online as videos**. 12 trainers and 36 trainees.
- 2022 Barcelona Training School
 - Local coordination was done by Victor Moreno. The TS took place 5-7th October. 26 participants, 8 trainers.
- 2023 Utrecht Training School
 - Local coordination by Aldert Zomer. The TS took place 6-8 March. 25 trainees, 7 trainers.



Some observations

- Total number of people trained : 125 (excluding local participants). 19 trainers:

Aldert Zomer

Aleksandra Gruca

Alise Ponsero

Benchraka Chouaib

Debora Santo

Dimitrios Vlachakis

Doris Vandeputte

Eliana Ibrahim

Gianvito Pio

Ilze Elbere

Jasminka Hasic Telalovic

Leo Lahti

Magali Berland

Marcus Claesson

Matti Ruuskanen

Ori Davidov

Rajesh Shigdel

Tatjana Loncar Turukalo

Tuomas Borman



Workshops

- Ireland 2023 (yesterday)
- Turku 2022
- Tirana 2022
- EMBnet online 2021 (2x)
- Heraklion 2019
- Nijmegen Radboud Summer School (Leo Lahti & team) 2021



Concluding

- **T4.2: Organise training courses and workshops.**
- **M4.1: Initial workshop (Y1Q4), training courses (Y2Q3/Y3Q3) and YouTube tutorials (Y4Q3)**
- Major Deliverables:
- **D4.1-3: Reports on the workshops & training courses of best practice in ML/Stats for microbiome studies.**
- **D4.4: Educational material shared: tutorials on paper and video (including a YouTube channel).**
- **All achieved. One extra TS was given thanks to the extension**