



MICROBIOME

<https://www.cost.eu/actions/CA18131/>



ML4Microbiome Workshop

Advances in the analysis of human microbiome and transcriptomics data

Faculty of Natural Sciences, University of Tirana, Tirana (AL)

COST Action CA18131

WG4 Leader: Domenica D'Elia

ML4Microbiome Workshop – 24 May 2022





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Start	22/02/2019
End	21/02/2023

Statistical and machine learning techniques in human microbiome studies

<https://www.ml4microbiome.eu/>

COST Action CA18131

WG4 Leader: Domenica D'Elia

ML4Microbiome Symposium – 14 October 2021





Growing **ideas**
through **networks**

The longest-running
European Framework for
Cooperation in Science &
Technology

- Connect high-quality scientific communities across Europe (and beyond) on societal & scientific challenges
- Provide networking opportunities
- To increase research impact on:
 - policy makers
 - regulatory bodies
 - national decision makers
 - private sector



<https://www.ml4microbiome.eu/about-us/>

Aim

To first optimize and then standardize best practice of ML techniques for human microbiome research

Action Details

- **MoU - 112/18**
- **CSO Approval date - 13/11/2018**

	Start	Now
Countries	24	34
Participants	57	113
ITC*	54%	55%

* **COST** Inclusiveness Target Countries (ITCs): Albania, Bosnia and Herzegovina, Bulgaria, Cyprus, Czech Republic, Estonia, Croatia, Hungary, Lithuania, Latvia, Luxembourg, Malta, Moldova, Montenegro, Poland, Portugal, Romania, Slovenia, Slovakia, Republic of North Macedonia, Republic of Serbia and Turkey.



Action Leadership Positions

Action Chair

Dr Marcus CLAESSION 

Action Vice Chair

Dr Randi J. BERTELSEN 

WG 1 - State-of-the-art evaluation and update

Prof Jaak TRUU 

WG 2 - Establishing benchmark datasets and ML DREAM Challenge

Dr Leo LAHTI 

WG 3 - Optimisation and standardisation

Dr Magali BERLAND 

WG 4 - Dissemination and training

Dr DOMENICA D'ELIA 

Science Communication Coordinator

Dr Dimitrios VLACHAKIS 

STSM Coordinator

Dr Tatjana LONČAR-TURUKALO 

ITC Conference Manager

Dr Tatjana LONČAR-TURUKALO 

Working Group 4: Dissemination & Training

1 Aims & goal

- Bridging existing gaps between ML and microbiome experts by fostering the sharing of knowledge and experience
- Disseminate the results of the Action in peer-reviewed journals, on the web-portal, at international conferences and through end-user workshops
- Organise training & share educational material both in the form of text and videos

2 Achievements

- Several Papers already published
- Publication of a Topic Issue in Frontiers
- 2 Training Schools (2019 & 2021), today Symposium and tomorrow Workshop
- Active & complete Website available
- LinkedIn & Twitter

3 Upcoming challenge

- YouTube Channel
- Publication of events reports
- Stakeholders Meeting (2022)
- Continue with dissemination at any level....



MICROBIOME

WG Leader: Domenica D'Elia
Vice: Aldert Zomer



- COST STSM submission site
<https://e-services.cost.eu/stsm>
- COST Vademecum at
<https://https://www.cost.eu/wp-content/uploads/2020/06/Vademecum-V8-1-May-20202.pdf>
- contact turukalo@uns.ac.rs
- contact your local Management Committee member:
<https://www.cost.eu/actions/CA18131/#tabs|Name:management-committee>



<https://www.cost.eu/actions/CA18131/>

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ML4Microbiome Workshop

<https://sites.google.com/fshn.edu.al/ml4microbiomeworkshop/home>

Speakers:

- *Dr **Magali Berland**, MetaGenoPolis, Paris-Saclay University, INRAE, France*
- *Assoc. Prof. Dr **Leo Lahti**, University of Turku, Finland*
- *Dr **Marta B. Lopes**, NOVA University of Lisboa, Portugal*
- *Dr **Aldert Zomer**, Utrecht University, Netherlands*



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Thank you for your Participation



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