

# 1<sup>ST</sup> WORKSHOP ON CHEMOMETRIC ANALYSIS IN LIPIDOMICS UNIVERSITY OF PERUGIA

June 9<sup>th</sup>-10<sup>th</sup>, Bettona (PG) Italy



## Aim of the Workshop

In this workshop, chemometrics will be first introduced to a non-expert audience, with a focus on challenges and potential pitfalls in lipidomics. Introductory lectures will be given by Prof Gabriele Cruciani (Corvin Hansch Award-Molecular Modeling Society, USA in 2001 and Gold Medal Herman Wold Award-Swedish Chemical Society in 2015) and by Prof. Laura Goracci (Professor for the Laboratory of Cheminformatics at the University of Perugia and scientific responsible for the Lipostar software for Lipidomics). Thus, a more advanced discussion on real applications of chemometrics in lipidomics will be promoted, with examples from attendees and organizers. Attendees can also bring their data to have a look together (software to run chemometrics available on site).

## Location

The workshop will be organized at the Molecular Horizon Congress Center located in Bettona, a town of Etruscan origin (20 Km of Perugia, 12 Km of Assisi). The site is in the countryside, surrounded by about 2000 olive trees; the best way to focus on science and on networking!

## Preliminary Program

### June 8<sup>th</sup>

2 pm-6 pm: Arrival

8 pm: dinner

### June 9<sup>th</sup>

9 am- 9:15 am: Welcome (L. Goracci, G. Cruciani)

9:15 am- 11 am: Chemometrics concepts for dummies (G. Cruciani)

11 am- 11:30 am: coffee break

11:30 am- 12:30 am: Unsupervised methods for Artificial Intelligence (G. Cruciani)

12:30 am- 2:30 pm: lunch and free time for discussion

2:30 pm- 3:30 pm: Supervised methods for Intelligence Amplification (G. Cruciani)

3:30 pm- 4:15 pm: Applications of Chemometrics in Lipidomics (L. Goracci)

4:15 pm- 4:45 pm: coffee break

4:45 pm- 6.30 pm: time for your presentations, hands on sessions, exercises.

6:30 pm: Free time and dinner

### June 10<sup>th</sup>

9:00 am- 10 am: chemometrics vs. other AI methods: how to make your selection? (G. Cruciani, L. Goracci)

10 am- 11 am: time for your presentations

11 am- 11:30: coffee break

11:30 am- 12:30 am: Discussion on your datasets

12:30 am-1 pm: Closing remarks

1 pm: farewell lunch

## Local Organizing Committee

Prof. Laura Goracci (University of Perugia)

Prof. Gabriele Cruciani (University of Perugia)

Dr. Jenny Desantis (University of Perugia)

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*How to apply? See next page!*



Workshop venue in Bettona (Perugia, Italy)

## How to reach us?

### By plane:

- Umbria international Aripport (15 min by car from the congress venue: <https://airport.umbria.it/en/home-en>)



- Rome Fiumicino airport (<https://www.adr.it/web/aeroporti-di-roma-en/>) + bus to Perugia or train to Perugia or Bastia station
- Florence Airport (<https://www.aeroporto.firenze.it/en/>) + shuttle+train to Perugia or Bastia station

### By Train:

- <https://www.trenitalia.com/en.html>

### By Bus:

- From Rome Fiumicino Airport: <https://www.sulga.it/>
- Flixbus: <https://global.flixbus.com/>

We will pick you up in Perugia, Bastia or at the Umbria Airport- Contact us if you need support!

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## How to register?

The workshop is opened to 15 participants at different levels of scientific career. To register, please fill the following form **before April 17 2022**:

[https://forms.office.com/Pages/ResponsePage.aspx?id=IH1-Bg\\_nxkKuEIsH6MSgA882-syysKVMi\\_c5D3\\_Zxr5UOFBMSkVSNTM5RkFVOVgzV0ZBRVhDTDE1Si4u](https://forms.office.com/Pages/ResponsePage.aspx?id=IH1-Bg_nxkKuEIsH6MSgA882-syysKVMi_c5D3_Zxr5UOFBMSkVSNTM5RkFVOVgzV0ZBRVhDTDE1Si4u)

Notification of acceptance: **April 26 2022**

## Financial support

Attendees from COST members countries, European RTD organizations and NNC countries are eligible to receive financial support. All eligible participants will also receive a daily allowance of 55 euros.

Long distance (>100 Km) travelers will also receive a flat reimburse of 250 euros for travel.

Meals will be free of charge for all attendees, while accommodation will be free of charge for long distance travelers only (3 nights).

Long distance travelers (10 participants, considering 3 nights staying):

	Accommodation	breakfast	lunch	dinner	Long-distance travel flat rate
June 8 <sup>th</sup>	included			included	250 euros
June 9 <sup>th</sup>	included	included	included	included	
June 10 <sup>th</sup>	included	included	included	included	
June 11 <sup>th</sup>		included			

Short distance travelers (5 participants, considering 2 nights staying):

	Accommodation	breakfast	lunch	dinner
June 8 <sup>th</sup>	not-included <sup>(a)</sup>			included
June 9 <sup>th</sup>	not-included <sup>(a)</sup>	included	included	included
June 10 <sup>th</sup>		included	included	
June 11 <sup>th</sup>				

<sup>(a)</sup> cost for accommodation: 50 euros/night