

# 2019 Exposome Symposium

Emerging Science and Technology for Effective Prevention and Healthy Outcomes

2nd Annual UNIBS/ISMMS Collaborative Conference

## Day 1: Monday, May 20

- 8:00-8:30 Doors and Registration Open  
*Light Breakfast*
- 8:30-9:00 Welcome and Overview  
**Robert Wright, MD, MPH**, Icahn School of Medicine at Mount Sinai  
**Roberto Lucchini, MD**, University of Brescia, Icahn School of Medicine at Mount Sinai  
**Marina Pizzi, MS**, University of Brescia
- 9:00-9:45 Keynote: The Exposome Concept  
**David Balshaw, PhD**, National Institute of Environmental Health Sciences

### The External Exposome

*Moderators: Laura Borgese, PhD, University of Brescia; Homero Harari, ScD, Icahn School of Medicine at Mount Sinai*

- 9:45-10:30 Database Mining, Spatial Modelling, and Environmental Measures  
**Itai Kloog, PhD**, Ben-Gurion University of the Negev
- 10:30-11:15 Wearable Devices for Exposomics  
**Roel Vermeulen, PhD**, Utrecht University
- 11:15-11:30 Break

### The Internal Exposome

*Moderators: Giuseppe De Palma, MD, PhD, University of Brescia; Manish Arora, BDS, MPH, PhD, FICD, Icahn School of Medicine at Mount Sinai*

- 11:30-12:15 Human Biomonitoring: The Case for Targeted Assays  
**Antonia Calafat, PhD**, Centers for Disease Control and Prevention
- 12:15-13:00 Untargeted Chemical Profiling for the Human Exposome  
**Douglas Walker, PhD**, Icahn School of Medicine at Mount Sinai
- 13:00-14:30 Poster Session  
*Lunch*
- 14:30-15:15 Inflammasome  
**Rosalind Wright, MD, MPH**, Icahn School of Medicine at Mount Sinai

### Data Science and Exposomics

*Moderators: Stefano Calza, PhD, University of Brescia; Robert Wright, MD, MPH, Icahn School of Medicine at Mount Sinai*

- 15:15-16:00 Identifying Small Molecules in Untargeted Exposomics Data  
**Assoc. Prof. Dr. Emma Schymanski**, University of Luxembourg
- 16:00-16:15 Break
- 16:15-17:00 Bioinformatics, Statistical Analysis, and Machine Learning for the Exposome  
**Marc Chadeau-Hyman, PhD**, Imperial College London
- 17:00-17:30 Panel Discussion  
*Day 1 Speakers*

## Day 2: Tuesday, May 21

- 8:00-8:30            Doors Open  
*Light Breakfast*
- 8:30-9:15            Keynote: The Exposome Concept: Lessons Learned  
**Paolo Vineis, MD, PhD**, Imperial College London

### Novel Approaches to Exposomics

*Moderators: Francesco Donato, MD, PhD, University of Brescia; Homero Harari, ScD, Icahn School of Medicine at Mount Sinai*

- 9:15-10:00            Blood Spots and Other Novel Matrices  
**Lauren Petrick, PhD**, Icahn School of Medicine at Mount Sinai
- 10:00-10:45            Tooth Biomarkers and Exposomics  
**Manish Arora, BDS, MPH, PhD, FICD**, Icahn School of Medicine at Mount Sinai
- 10:45-11:00            Break
- 11:00-11:45            Satellite Remote Sensing, Air Pollution, Temperature and Light at Night  
**Massimo Stafoggia, PhD**, Lazio Region Health Service
- 11:45-12:30            Occupation and Exposome  
**Homero Harari, ScD**, Icahn School of Medicine at Mount Sinai
- 12:30-14:00            Poster Session  
*Lunch*

### Applications of Exposomics

*Moderators: Roberto Ranzi, PhD, University of Brescia; Roberto Lucchini, MD, Icahn School of Medicine at Mount Sinai*

- 14:00-14:45            The PHIME Study: From Brescia to Taranto  
**Donatella Placidi, MD**, University of Brescia
- 14:45-15:30            Approaches to Mixtures and EWAS Analysis in Exposomics  
**Chirag Patel, PhD**, Harvard University
- 15:30-16:15            Exposome and Precision Medicine  
**Robert Wright, MD, MPH**, Icahn School of Medicine at Mount Sinai
- 16:15-16:30            Break
- 17:30-17:45            Panel Discussion  
*Day 2 Speakers*
- 17:45-18:00            Closing Remarks

*Educational Credits will be available for European participants and ECM credits for Italian participants.*

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## Call for Poster Submissions

Poster submissions are invited for the 2019 Exposome Symposium to be held in Brescia, Italy, May 20-21, 2019.

This symposium is designed to be an introduction to exposomics as a field, an illustration of the challenges of generating high quality untargeted chemical assays, an illustration of the use of computer science to generate novel exposure data, wearable devices, and other new methods in the field. Finally, the symposium will present both the strengths of including exposomics in human research and the challenges inherent to study design and statistical/bioinformatics analysis of exposomic data.

The poster session is a highlight of symposium. It provides an ideal opportunity for one-on-one personal exchange of research data and ideas in an informal setting with a unique consortium of participants who are experts in various aspects of exposomics. A major goal of this symposium is to provide an ideal networking opportunity for students and beginning researchers. The poster session is a wonderful venue for informal, in-depth discussion, collaboration building, and mentoring of young scientists.

Timeline:

Submission Deadline: **April 1, 2019**

Notification of Acceptance: April 8, 2019

[Submit your abstract here](#)

General Guidelines:

If the poster is accepted, the presenting author must register for the symposium in order to attend and present at the symposium.

Poster Format:

Standard Poster Size: 36 in X 48 in (or 91 cm X 122 cm)

Layout: Landscape or Portrait

Materials: Cloth, or Paper-based (with matte finish or coated paper)

Information to include: Title of poster, Presenter's name, Department, Institution, Email, Purpose of research, Method, Findings, and 3 to 4 key words/themes

To learn more and register for the conference, visit [www.sinaisexposomics.com](http://www.sinaisexposomics.com).