

## Atlantic Exposome Summer School ALEXS 2022 Preliminary Programme

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

8:30-9:00..... *Welcome Coffee*

9:00-9:15..... *Introduction by Michel Samson and Arthur David*

#### Session 1: The Exposome Story

**Chair:** Michel Samson (INSERM, IRSET, France)

9:15-10:00..... **Plenary Lecture 1:** "The Exposome Story: From 2005 To 2022"

**Paolo Vineis** (Imperial College, London, UK)

10:00-10:45..... **Plenary Lecture 2:** "Structuring The Exposome Community Through An EU Research Infrastructure (EIRENE)"

**Jana Klanova** (RECETOX, Czech Republic)

10:45-11:15 ..... *Coffee Break*

11:15-12:00..... **Plenary Lecture 3:** "Exposome Research In European Birth Cohorts"

**Léa Maître** (ISGlobal, Spain)

12:00-13:00 ..... **Discussions between the speakers and the students: how to build an academic career in exposomics, what are the new methodologies one should learn**

13:00-14:15 ..... *Lunch*

#### Session 2: External Exposure: From What We Breath To What We Eat

**Chair:** Bénédicte Jacquemin (INSERM, IRSET, France)

14:15-15:00.... **Talk 1:** "Towards A Full Assessment Of The External Urban Exposome"

**Kees de Hoogh** (Swiss TPH, Switzerland)

15:00-15:30 .... **Talk 2:** "Coupling Targeted And Untargeted Analyses To Decipher The Food Chemical Exposome"

**Julien Parinet** (ANSES, Maisons-Alfort, France)

15:30-16:00 .... **Talk 3:** "The Food Chemical Exposome: How To Identify Chemical Mixtures?"

**Amélie Crépet** (ANSES, Maisons-Alfort, France)

16:00-16:30 ..... *Coffee Break*

16:30-17:00..... **Selection of Oral communications**

17:00-18:30..... **Poster Session and Cocktails**

**Thursday 9<sup>th</sup> June**

## **Session 1: Human Biomonitoring: Assessing Chemical Exposure**

**Chair:** Vincent Bessonneau and Arthur David (EHESP, France)

09:00-09:10.....**Talk 1:** "Presentation Of France Exposome: A National Infrastructure To Decipher The Chemical Exposome"

**Michel Samson** (Inserm, France)

09:10-09:40.....**Talk 2:** "Suspect And Non-Targeted Screening Of Exposure Markers Of Emerging Concern From Human Matrices: Main Achievements And Results Of The HBM4EU Project"

**Jean-Philippe Antignac** (LABERCA, Nantes)

9:40-10:10.....**Talk 3:** "French National Human Biomonitoring And European Partnership For The Assessment Of Risks From Chemicals (PARC)"

**Sébastien Denys** (Santé publique France)

10:10-10:30.....**Selection of Oral communications**

10:30-11:00 ..... *Coffee Break*

## **Session 2: The Virome and the Microbiome**

**Chair:** Nathalie Dejuçq-Rainsford (INSERM, IRSET, France)

11:00-11:30.....**Talk 1:** "Virome And Microbiome Comparison: The Example Of Pig Fecal Samples"

**Marie-Agnès Petit** (INRAE, France)

11:30-12:00.....**Talk 2:** "To be determined »

**Charlotte Boullé** (Université Montpellier 1, France)

12:00-12:15.....**Talk 3:** "Sanitary Microbiology And The Environment: Multiple Challenges"

**Pierre Le Cann** (EHESP, France)

12:15-12:30.....**Talk 4:** "To be determined"

**Morgane Danion et Thierry Morin** (ANSES, France)

12:30-14:00 ..... *Lunch*

## **Session 3: Methodological Approaches To Link The Exposome To Health**

**Chair:** Ronan Garlantézec (Université Rennes 1, France)

14:00-14:30.....**Talk 1:** "Environment And Respiratory Health: Towards An Exposome Approach"

**Valérie Siroux** (Grenoble)

14:30-15:00.....**Selection of Oral communications**

15:00-15:30 ..... *Coffee Break*

**15:30-18:00 ..... Parallel Workshops**

15:30-18:00 ..... **Workshop 1** “Applying An Exposome Approach In Epidemiology: A Tutorial Using R”  
**Charline Warembourg** (Inserm, Irset)

15:30-18:00 ..... **Workshop 2** “Open Source And Vendor Software For HRMS-Based Exposomics Data Treatment”  
**Jade Chaker** (EHESP, Rennes), **Sophie Mompelat** (ANSES, Fougères), **Sabine Jourdan** (Bruker, France), **Russel Mortishire-Smith** (Waters, UK)

18:30-19:30.....**3-Minute PhD Competition**

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

8:30-9:00..... *Coffee*

### Session 1: What Toxicology Can Bring To The Exposomics?

**Chair:** Frédéric Chalmel (INSERM, IRSET, France)

09:00-09:30.....**Talk 1:** “Predictive Toxicogenomics For Chemical Risk Assessment”  
**Thomas Darde and Indusha Kugathas** (IRSET, Rennes, France)

9:30-10:30.....**Talk 2:** “From Cohorts To Molecules: Adverse Impacts Of Endocrine Disrupting Mixtures”  
**Jean-Baptiste Fini** (Muséum national d'Histoire naturelle, Paris)

10:30-11:00 ..... *Coffee Break*

### Session 2: Social Exposome, Prevention Programs And Citizen Sciences

**Chair:** Sylvie Ollitrault (EHESP, France)

11:00-11:30.....**Talk 1:** “The Exposome (Concept And Research): Tensions Between Holism And Reductionism”  
**Élodie Giroux** (Université Jean Moulin Lyon 3, France) **and Yohan Fayet** (Centre Léon Bérard, France)

11:30-12:00.....**Talk 2:** “Locally Implemented Prevention Programs May Reverse Weight Trajectories In Half Of Children With Overweight/Obesity Amid Low Child-Staff Ratios: Results From A Quasi-Experimental Study in France”  
**Aymery Constant** (EHESP, Rennes, France)

12:00-12h30 ....**Talk 3:** “Opportunities And Challenges Of Participative Research Projects On Multiple Environmental Exposures”  
**Olivier Laurent** (Institut de radioprotection et de sûreté nucléaire, Paris, France)

12:30-12:45.....Poster and Best Talk Awards

12:45-13:00.....Closing and Thanks

**13:00.....End of ALEXS 2022**