



## Cell, Developmental and Evolutionary biology meets Environmental Change: Lessons and Impacts

MAY 10, 2022

9:00 a.m.-9:20 a.m. Introduction by Gilles Bloch, CEO of AVIESAN and by other representatives

### Session 1: How natural environmental cues control cell biology and development

**Chairpersons: Evelyn Houlston, Yohanns Bellaiche**

- ✓ 9:20-9:50 a.m.: “Animal physiology and development under the light of sun and moon”. **Kristin TESSMAR-RAIBLE**, MFPL/Centre for Molecular Biology/ Rhythms of Life Platform, University of Vienna, Austria
- ✓ 9:50-10:20 a.m.: “Metabolic molecular strategies to cope with light at night: lessons from the Arctic”. **Steven BROWN**, Chronobiology and Sleep Research Group, Institute of Pharmacology and Toxicology, University of Zurich, Switzerland

#### 10:20-10:50 p.m Coffee break

- ✓ 10:50-11:20 a.m.: “Eco-evo-devo and the environmental regulation of insect development”. **Patricia BELDADE**, cE3c: Centre for Ecology, Evolution, and Environmental Changes, Faculty of Sciences, University of Lisbon, Portugal
- ✓ 11:20-11:50 a.m.: “Adaptation to the environment through symbiosis - a model systems' approach”. **Annika GUSE**, Centre for Organismal Studies (COS), Heidelberg University, Germany
- ✓ 11:50 a.m.-12:20 p.m.: “Cell type evolution and animal adaptation to environmental inputs: offerings from the sea urchin larva”. **Maria Ina ARNONE** Department of Biology and Evolution of Marine Organisms, Stazione Zoologica Anton Dohrn, Napoli, Italy
- ✓ 12:20-12:50 p.m.: “Pattern and process in the fossil record: can we deduce evolutionary mechanism?”. **Graham BUDD**, Department of Earth Sciences, Palaeobiology, Geocentrum,



Uppsala, Sweden (*via Zoom*)

**12:25-2:00 p.m Lunch break**

## **Session 2: Cell biology and development in extreme environments and upon disruption of the environment consecutive to human activity**

**Chairpersons: Sakina Mhaouty-Kodja, Frédérique Clément**

- ✓ 2 :00-2:30 p.m.: “Effects of endocrine disrupting chemicals on brain development: from molecular mechanisms to human health”. **Joëlle RUEGG**, Department of Organismal Biology, Environmental Toxicology, Evolutionsbiologiskt Centrum EBC, Uppsala, Sweden
- ✓ 2:30-3:00 p.m.: “Endocrine disruption and the chemical exposome as seen by a structural biologist”. **William BOURGUET**, Center for Structural Biology, CNRS UMR5048 / INSERM U1054, Montpellier, France
- ✓ 3 :00-3:30 p.m.: “Intricate influences of the social environment and insecticide exposure on larva development and social organization in bumble bees”. **Guy BLOCH**, Dept. of Ecology, Evolution, and Behavior, The Federmann Center for the Study of Rationality, The Hebrew University of Jerusalem, Israel

**3:30-4:00 p.m Coffee break**

- ✓ 4 :20-4:30 p.m.: “Impact of disrupted daily cycles on female reproduction”. **Valérie SIMONNEAUX**, Institute of Cellular and Integrative Neuroscience, Strasbourg, France
- ✓ 4 :30-5:00 p.m.: “Climate change impacts on marine planktonic ecosystems”. **Chris BOWLER**, Ecology and Evolutionary Biology Section, Institute of Biology of the Ecole Normale Supérieure (IBENS), Paris, France
- ✓ 5 :00-5:30 p.m.: “The impact of gravity in life”. **Jack van LOON**, University of Amsterdam, and European Space Agency (ESA), Technology Center (ESTEC), Noordwijk, The Netherlands