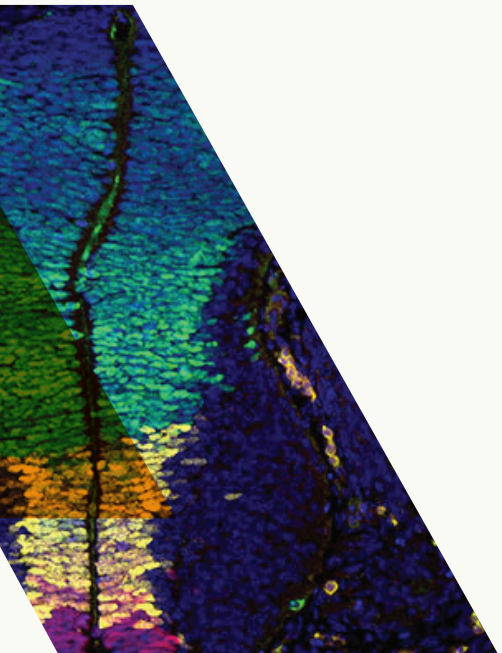




# Workshop 'Plasticity and Constancy in Development and Evolution'

Ben-Gurion University of the Negev  
May 9-10, 2022



## Monday, May 9th

9:30-10:00

Registration and Refreshments

10:00-10:15

Greetings and Opening Remarks

10:15-11:45

**Plasticity and Constancy - a Molecular and an Ancient Perspective**

**Denis Duboule and Colleagues**, University of Geneva

"A molecular approach of constancy and flexibility during vertebrate development"

**Edward Halper**, University of Georgia

"Stability and change: some ancient and modern perspectives"

11:45-12:00

Coffee Break

12:00-13:30

**Stability and Dynamics of Cell Identity in Development**

**Adrian Bird**, University of Edinburgh

"Proteins that interpret genomic signals to stabilise cell identity"

**James Briscoe**, Francis Crick Institute

"About time: The dynamics of nervous system development"

13:30-14:30

Lunch break

14:30-16:45

## **Plasticity and Constancy - Philosophical and Scientific Perspectives**

**Ute Deichmann**, Ben-Gurion University of the Negev

"The idea of constancy in development and evolution - scientific and philosophical perspectives"

**Philippa Lang**, Emory University

"Boundaries of change and development in ancient atomistic theory"

**Jeremy Gunawardena**, Harvard Medical School

"Plasticity and constancy as learning and memory: a cognitive perspective on cellular behaviour"

16:45-17:15

Coffee Break

17:15-18:45

**Ariel Chipman**, The Hebrew University of Jerusalem

"Serial homology and segmental identities in arthropod development and evolution"

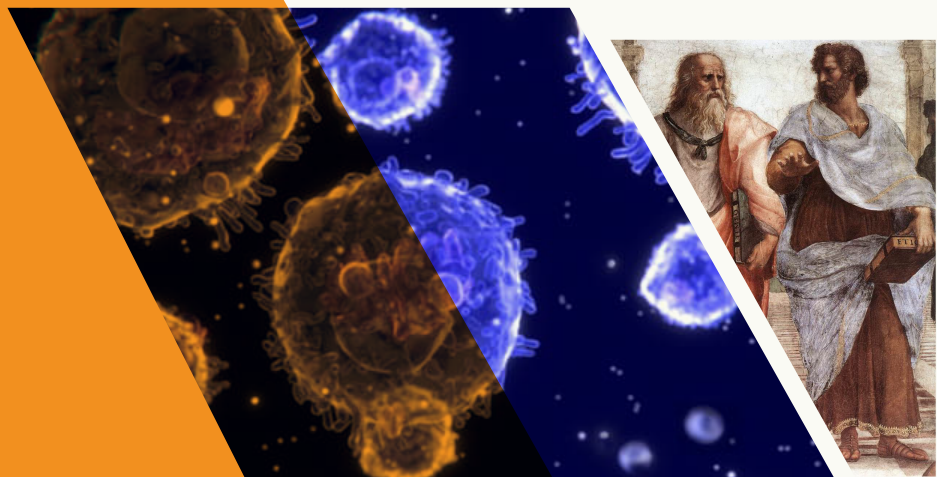
**Eileen Furlong**, EMBL, Heidelberg

"Understanding the impact of developmental perturbations with a new level of resolution"

18:45

Musical Interlude

Dinner for Invited Speakers and Guests



**Tuesday, May 10th**

**9:30-11:45**

**Gene Regulation and the Continuity of Cells in Evolution and Development**

**Ellen Rothenberg**, California Institute of Technology

"Continuities between adaptive and innate immune-cell developmental programs: a clue to evolutionary history?"

**Benny Shilo**, Weizmann Institute

"Generation and timing of graded responses to morphogen gradients"

**Alexander Stark**, University of Vienna

"Decoding transcriptional regulation in *Drosophila*"

**11:45-12:15**

Coffee Break

**12:15-13:45**

**A Genomic View on Developmental Disease**

**Stas Shvartsman**, Princeton University

"Causality in developmental abnormalities associated with mutations in cell signaling systems"

**Ramon Birnbaum**, Ben-Gurion University of the Negev

"Genomic view of gene regulatory elements and their role in human disease"

**13:45-14:45**

Lunch

**14:45-17:00**

**The Regulatory Genome, Evolutionary Novelty, and Aristotle's View on Evolution**

**Joseph Parker**, California Institute of Technology

"Cell type evolution and the emergence of organ function"

**Douglas Erwin**, Smithsonian Museum, Washington D.C.

"Bodyplans and evolvability: How does the structure of the regulatory genome deliver novelty while ensuring continuity?"

**Andrew German**, Ben-Gurion University of the Negev

"Aristotle vs. Evolutionary Theory: Identifying the most difficult question"

**17:00-17:15**

Coffee

**17:15-17:45**

Round Table Discussion

**19:30**

Dinner and evening lecture for invited speakers and guests

