



## International Workshop Origins of Metazoans

### PROGRAMME

#### November 7<sup>th</sup>

• 9:00 AM – 9:30 AM	Meeting opening/registration Introduction by Aviesan
• 9:30 AM – 10:00 AM	<b>Abder El Albani</b> (Poitiers, France), Fossils from Gabon show early steps toward multicellularity 2.1 billion years ago
10:00 AM – 11:00 AM	<b>Session 1: Multicellularity and early metazoan -</b> <i>Chair: Evelyn Houliston</i>
• 10:00 – 10:30 AM	<b>Inaki Ruiz-Trillo</b> (Barcelona, Spain), How did animals evolve? A view from our closest unicellular relatives
• 10:30 – 11:00 AM	<b>Graham Budd</b> (Uppsala, Sweden), The changing world of the Cambrian explosion
11:00 AM – 12:45 AM	<b>Session 2: Gene expression and the metazoan basal ancestor -</b> <i>Chair: Vincent Laudet</i>
• 11:00 – 11:30 AM	<b>Gert Worheide</b> (Munich, Germany), A solution to the conundrum of non bilaterian relationships?
• 11:30 – 12:00 PM	<b>Mark Q Martindale</b> (Florida, USA), Ctenophore development
• 12:00 – 12:15 PM	<b>Heather Marlow</b> (Paris, France), The Genomic Basis of Cell Type Diversity in <i>Nematostella vectensis</i>
• 12:15 – 12:30 PM	<b>Thibaut Brunet</b> (Berkeley, USA), The pre-metazoan origin of animal cell contractility
• 12:30 – 12:45 PM	<b>Andrej Ondracka</b> (Barcelona, Spain), Regulation of the coenocytic cell cycle in the ichthyosporean <i>Sphaeroforma arctica</i>
12:45 PM – 1:45 PM	<b>Lunch buffet</b>
2:00 PM – 3:00 PM	<b>Session 3: Sponges versus Ctenophores -</b> <i>Chair: Vincent Laudet</i>
• 2:00 – 2:30 PM	<b>Bernie Degnan</b> (Brisbane, Australia), Origin of the animal regulatory genome
• 2:30 – 3:00 PM	<b>André Le Bivic</b> , (Marseille, France), Epithelial organization and polarity complexes in early metazoans
3:00 PM - 4:30 PM	<b>Session 4: Posters &amp; Drinks</b>

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4:30 PM - 6:30 PM

Session 5: **Metazoan developmental models** -  
*Chair: Brigitte Galliot*

- 4:30 – 5:00 PM **Bernd Schierwater** (Hannover, Germany) and **Robert Desalle** (New York, USA), An uninvolved observer's view of the base of the metazoan ToL
- 5:00 – 5:30 PM **Evelyn Houliston** (Villefranche-sur-Mer, France), Regulation of gamete release in hydrozoans
- 5:30 – 5:45 PM **Luis Porras** (Munich, Germany), Early animal evolution and the essentialist swamp
- 5:45 – 6:00 PM **Jaroslav Ferenc** (Basel, Switzerland), Mechanochemical crosstalk in *Hydra* self-organization
- 6:00 – 6:15 PM **Jake Warner** (Nice, France), Regeneration is a partial re-deployment of the embryonic gene regulatory network
- 6:15 – 6:30 PM **Patricia Alvarez-Campos** (Paris, France), Transcriptome characterization of the stolonizing syllid annelids, an emerging model for studying the evolution of reproduction and regeneration

**November 8<sup>th</sup>**

8:45 AM – 10:00 AM

Session 6: **Stem cells and neuronal cells in metazoan evolution** -  
*Chair: André Le Bivic*

- 8:45 – 9:15 AM **Brigitte Galliot** (Geneva, Switzerland), The developmental and non-developmental faces of regeneration in early metazoan evolution
- 9:15 – 9:45 AM **Celina Juliano** (California, USA), Stem cells and regeneration in *Hydra*
- 9:45 – 10:00 AM **Emmanuelle Renard** (Marseille, France), Revisiting animal germline stemness at the light of eukaryotic life cycle evolution

10:00 AM – 10:30 AM

**Coffee Break**

- 10:30 – 11:00 AM **Ulrich Technau**, (Vienna, Austria), Self-organisation and plasticity in aggregates of *Nematostella vectensis*
- 11:00 – 11:30 AM **Detlev Arendt**, (Heidelberg, Germany), Cell types in sponges and their evolution in early Metazoa
- 11:45 AM – 12:00 PM Conclusions: **Vincent Laudet** (Banyuls-sur-Mer, France)