

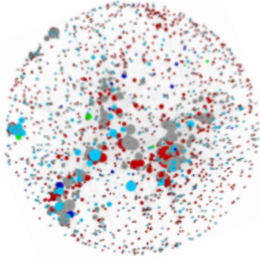


# Colloque “The metamorphosis”

November 7<sup>th</sup>, 2024

**Museum National d'Histoire Naturelle**  
**Auditorium de la Grande Galerie de l'Evolution**  
36, rue Geoffroy Saint-Hilaire  
75005 Paris





# Scientific Program

09h00 : **Welcome**

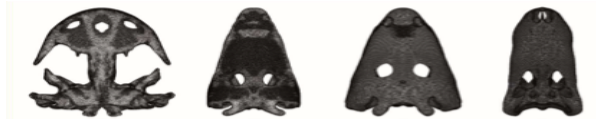
09h30 - 10h00 : **Introduction**

- **Jian-Sheng SUN** (*Director Dept. “Adaptation du Vivant”, MNHN, Paris*) - 5 min  
*A few words from the MNHN direction, DGD-REVE or DGD Recherche*
- **Laurent SACHS** (*PhyMA, MNHN, Paris*) - 5 min  
*A few words on metamorphosis*
- **Perig PITROU** (*CNRS, Maison Française d’Oxford*) - 15 min + 5 min de discussion  
*Metamorphosis as a Human Practice*

10h00 - 10h50 : **Session 1 – Metamorphosis: what we learn from the past ?**

Moderator : **Jean-Sébastien STEYER** (*CR2P, MNHN, Paris*)

- **Nadia FRÖBISCH** (*Museum für Naturkunde, Berlin*) - 15 min + 5 min discussion  
*Evolution and development of extinct and extant amphibians*
- **Jean-Sébastien STEYER** (*CR2P, MNHN, Paris*) - 10 min + 5 min discussion  
*Temnospondyl metamorphosis detected by phylogeny ?*
- **André NEL** (*MNHN, Paris*) - 10 min + 5 min discussion  
*Metamorphosis in insects in the fossil record*



10h50 - 11h05 : **Coffee break**

11h05 - 12h20 : **Session 2 – Metamorphosis: a widespread complex developmental strategy**

Moderator : **Olivier MARQUIS** (*MJZ, MNHN, Vincennes*)

- **Annemarie OHLER** (*ISYEB, MNHN, Paris*) - 10 min + 5 min discussion  
*Variability of developmental strategies among amphibians*
- **Rodolphe ROUGERIE** (*ISYEB, MNHN, Paris*) - 10 min + 5 min discussion  
*Metamorphosis of moths (Saturnidae)*
- **Coralie MARTIN** (*MCAM, MNHN, Paris*) - 10 min + 5 min discussion  
*Parasite life cycle*
- **Céline ELLIEN** (*BOREA, MNHN, Paris*) - 10 min + 5 min discussion  
*Metamorphosis of amphidromous fishes of the Indo-Pacific islands*
- **Nadia AMEZIANE** (*ISYEB, MNHN, Concarneau*) - 10 min + 5 min discussion  
*Metamorphosis in sea cucumbers*

12h20 - 14h00 : **Lunch**



### 14h00- 15h30 : Session 3 – Metamorphosis, adaptive polymorphism and ecology

Moderator : Violaine LLAURENS (*Collège de France, Paris*)

- **Mathieu DENOEL** (*University of Liege, Belgique*) - 15 min + 5 min discussion  
*To be or not to be a tiny paedomorphy : food, sex, and metamorphosis in a changing world*
- **Patrick MARTIN** (*Conservatoire National du Saumon Sauvage, Chanteuges*) - 15 min + 5 min discussion  
*Smoltification and conservation of long river salmon*
- **Julie COLLET** (*CBGP, Montferrier sur Lez*) - 15 min + 5 min discussion  
*Independent evolution of pre- and post-metamorphosis traits*
- **Violaine LLAURENS** (*ISYEB, MNHN, Paris*) - 10 min + 5 min discussion  
*Butterfly polymorphism*
- **Frederic OLIVIER** (*BOREA, MNHN, Concarneau*) - 10 min + 5 min discussion  
*Plasticity of metamorphosis in Arctic bivalves*



### 15h30 - 15h50 : Coffee break

### 15h50 - 17h05 : Session 4 – Metamorphosis at cellular and molecular scale

Moderator: Sylvie DUFOUR (*BOREA, MNHN, Paris*)

- **Aurea OROZCO-RIVAS** (*UNAM, Queretaro, Mexico*) - 15 min + 5 min discussion  
*Thyroid Hormone and Axolotl metamorphosis*
- **Andreas HEYLAND** (*University Guelph, Canada*) - 15 min + 5 min discussion  
*Metamorphosis and echinoderms*
- **Jean-Philippe CHAMBON** (*Université de Montpellier*) - 15 min + 5 min discussion  
*Ciona intestinalis Metamorphosis*
- **Nicolas BUISINE** (*PhyMA, MNHN, Paris*) - 10 min + 5 min discussion  
*Corticoids and thyroid hormones cross-talk during amphibian metamorphosis*

### 17h05 - 17h20 : Conclusion

Contributor : Laurent SACHS (*PhyMA, MNHN, Paris*)



**Registration free but required via the following link or Code QR :**

<https://docs.google.com/forms/d/e/1FAIpQLScG1OzEwtndr1GmL4v1srQWN4M5bw89XpCPU4yervg9mDSEEQ/viewform>



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