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One of the most fundamental issues in biology is the nature of evolutionary transitions from single cell organisms to multicellular ones. Not surprisingly for microscopic life in a fluid environment, many of the processes involved are related to transport and locomotion, for efficient exchange of chemical species with the environment is one of the most basic features of life. This is particularly so in the case of flagellated eukaryotes such as green algae, whose members serve as model organisms for the study of transitions to multicellularity. In this talk I will summarize recent theoretical and experimental work addressing a number of interrelated aspects of evolutionary transitions in the Volvocine green algae, which range from unicellular *Chlamydomonas* to *Volvox*, with thousands of cells. Phenomena to be discussed include allometry of nutrient uptake, phenotypic plasticity, flagellar synchronization, hydrodynamic bound states, and the dynamics of adaptive phototaxis. For more details, see <http://www.cgmc.univ-lyon1.fr/Semovi/13octobre2010.php>

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One of the principal questions in the study of animal-bacterial interactions is: What are the cellular and molecular differences between beneficial and pathogenic associations? The study of several invertebrate symbioses has demonstrated that, although the outcomes are different, beneficial and pathogenic associations share much of the same molecular language. This presentation will focus upon contributions to the field made by the study of the relationship between the Hawaiian bobtail squid *Euprymna scolopes* and its luminous bacterial partner *Vibrio fischeri*. In this symbiosis, the bacteria are acquired anew each generation and form persistent interactions along the apical surfaces of host epithelia, a pattern of symbiosis that is perhaps the most widespread among animals. The mechanisms underlying the processes of host-symbiont recognition, induction of partner development, and the maintenance of a balanced relationship will be highlighted.

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PUBLICATIONS

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"ArthropodaCyc": a BioCyc database powered by CycADS to study and compare the metabolism of arthropods (<https://hal.inrae.fr/hal-02749029>)

Patrice Baa-Puyoulet, Augusto Vellozo, Jaime Huerta-Cepas, Gérard Febvay, Toni Gabaldon, Marie-France Sagot, Hubert Charles, Stefano Colella

20/08/2022

PUBLICATIONS

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"False heat," big testes, and the onset of natal dispersal in European pine Martens (*Martes martes*) (<https://hal.science/hal-02025587>)

Jeremy Larroque, Sandrine Ruet, Jean-Michel Vandel, Sébastien Devillard

12/06/2022

PUBLICATIONS

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"La machine de la missions est bloquée": indiens, missionnaires et machines dans le Chaco boréal (1925-1935) (<https://hal.science/hal-02876791>)

Marie Morel

03/06/2024

PUBLICATIONS

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"One code to find them all": a perl tool to conveniently parse RepeatMasker output files (<https://hal.sorbonne-universite.fr/hal-01332104>)

Marc Bailly-Bechet, Annabelle Haudry, Emmanuelle Lerat

12/06/2022

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"Si la photo est bonne" – Issues and diffusion of Missionary Photography (Chaco boreal-Europe, 1898-1938) (<https://hal.science/hal-02876787>)

Marie Morel

03/06/2024

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« ArthropodaCyc » : une collection de bases de données enrichies à l'aide de CycADS pour étudier et comparer le métabolisme des arthropodes. (<https://hal.inrae.fr/hal-03506713>)

Patrice Baa-Puyoulet, Stefano Colella, Augusto Vellozo, Jaime Huerta-Cepas, Gérard Febvay, Federica Calevro, Toni Gabaldon, Marie-France Sagot, Hubert Charles

29/07/2022

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Marion Valeix, chercheuse en écologie comportementale, donne une conférence grand public au Musée des Confluences

09/05/2022

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