



Program of the International Conference on Holobionts

Paris April 19-21, 2017

Wednesday April 19

12h00 – 13h50 Registration

14h00 Welcome by Jean-Christophe Simon

Session 1 : Holobionts and evolution

- 14h15 **Eugene Rosenberg & Ilana Zilber-Rosenberg (invited)**: Genetic variation and evolution of holobionts
- 14h45 **Nancy Moran (invited)**: Levels of selection and symbioses, with examples from insects
- 15h15 **Antton Alberdi**: Theoretical and practical insight into how symbiotic microorganisms might increase acclimation and adaptation capacity of complex organisms
- 15h35 **Sylvain Charlat**: How long does *Wolbachia* remain on board?
- 15h55 **Chris Creevey**: Divergent microbial functional isoforms drive niche specialisation and hologenomic homeostasis in the rumen microbiome
- 16h15 **Ellen Decaestecker**: Life history and eco-evolutionary dynamics in light of the gut microbiota
- 16h35 **Frédéric Delsuc**: Evolution of the gut microbiome in wild versus captive mammals
- 16h55 Coffee break/Poster**
- 17h25 **Yoav Soen**: Darwinian selection induces Lamarckian adaptation in a holobiont model
- 17h45 **Edouard Jurkevitch**: “Specialist” vs “Generalist” gut microbiomes are linked to host range in frugivorous fruit flies
- 18h05 **Oren Levy**: Symbiotic algae enslave the cnidarian biological clock to their own rhythm
- 18h25 **Justin Maire**: Good fences make good neighbors: Immune compartmentalization strategy in insect symbiosis
- 18h45 **Wolfgang Miller**: Unorthodox transmission modes of endosymbionts in hybrids and the symbiotic origin of speciation
- 19h05 Free evening**

Thursday April 20

- 9h00 **Jeroen Raes (invited)**: Towards population-level microbiome monitoring: the Flemish gut flora project
- 9h30 **Julie Réveillaud**: Metagenomic investigation of deep-sea vent tubeworm endosymbionts from Mid-Cayman Rise reveals new insights into metabolism and diversity
- 9h50 **Marc-André Sélosse**: The evolution of interdependency by neutral evolution in holobionts
- 10h10 **Sébastien Duperron**: Deep-sea mussels and their symbionts: recent findings and open questions
- 10h30 Coffee break/Poster**

Session 2 : Emerging approaches to holobiont research

10h50	<u>Kellye Eversole</u> : From simple to complex: phytobiomes and the vision for agriculture in 2050
11h10	<u>Cervin Guyomar</u> : Multi-scale characterization of symbiont diversity in the pea aphid complex through metagenomic approaches
11h30	<u>Arnaud Meng</u> : A transcriptomic approach to study marine plankton holobionts
11h50	<u>Marcelino Suzuki</u> : Genomic analysis of the main bacterial symbiont of the polycyclic guanine alkaloid-producing sponge <i>Crambe crambe</i>
12h10	<u>Etienne Yergeau</u> : Understanding and manipulating the plant holobiont
12h30	lunch

Session 3 : Microbiota and host health

14h00	Joël Doré (invited) : <i>Homo sapiens symbioticus</i> : an endangered species ?
14h30	<u>Kostas Bourtzis</u> : Harnessing insect symbiosis for the population control of agricultural pest and disease vector species
14h50	<u>Kelly Brener-Raffalli</u> : Integrative analysis of the coral holobiont thermotolerance under contrasted thermal environment
15h10	<u>Emma Gibbin</u> : Using nanoscale imaging technologies to understand differential susceptibility to coral bacterial infection.
15h30	<u>Stéphane Hacquard</u> : Multi-kingdom microbial consortia maintain microbial Homeostasis in roots and promote plant health
15h50	<u>Jacqueline Moltzau-Anderson</u> : NOD2 influences intestinal resilience and fungal signatures after antibiotic perturbation
16h10	Coffee break/Poster
16h40	Kevin Theis (invited) : Medicine through a hologenomic lens
17h10	<u>Lindsay Newbold</u> : Helminth burden and ecological factors associated with wild host gastrointestinal microbiota
17h30	<u>Laure Segurel</u> : Biodiversity of the human gut microbiome: influence of diet and parasitism
17h50	Poster session
18h50-21h30	cocktail buffet

Friday April 21

Session 4 : Mechanisms for holobiont assembly

9h00	Paul Schulze-Lefert (invited) : Structure and function(s) of the plant root microbiota
9h30	<u>Manuel Blouin</u> : A core microbiota of plant and earthworm interaction? Phylogenetic and functional aspects
9h50	<u>Didier Bouchon</u> : The woodlice holobiont: an all in one toolbox for animal-microbe interactions of ecological relevance
10h10	<u>Isabel Casillas-Barragán</u> : The inner help: bleached <i>Exaiptasia pallida</i> (Anthozoa, Actiniaria) farms and allocates remaining endosymbionts ensuring the inheritance of <i>Symbiodinium</i> spp. to offspring
10h30	Coffee break/Poster

10h50	Angélique Gobet : Seasonal and diet-driven assembly of a core microbiota associated to macroalgal digestion in the marine herbivore holobiont
11h10	Tim Lachnit : Bacteriophages in the freshwater polyp <i>Hydra</i> and their role in holobiont maintenance
11h30	Simon Le Bloa : New insights of the <i>Rimicaris exoculata</i> holobiont model
11h50	Jeroen van de Water : Stability and functionality of the microbial communities associated with temperate gorgonians and the precious red coral <i>Corallium rubrum</i>
12h10	Nathan Vannier : The microbiota heritability in a clonal plant: toward the concept of meta-holobiont

12h30 lunch

Session 5 : Metabolic interactions between host and microbiota

14h00	Pita Galan (invited) : Marine sponges: life in a sea of microbes
14h30	Haichar Feth el Zahar : Plant nutrient resource strategies control the rhizosphere microbiota structure and functions
14h50	David Giron : Influence of insect microbial symbionts on plant nutritional status, immunity and morphology: consequences for plant exploitation
15h10	Alejandro Manzano-Marín : The newcomers: distantly related bacteria have settled as co-obligate symbionts in aphids
15h30	Peter Mergaert : Are antimicrobial peptides enabling metabolic integration of endosymbionts?
15h50	Julian Taffner : Understanding the role of Archaea for plant holobionts
16h10	Magali Zbinden : Transtegumental absorption of ectosymbiotic bacterial by-products in the hydrothermal shrimp <i>Rimicaris exoculata</i> : An unusual way of eating
16h30	Jacques Beckmann & Thierry Heulin (invited) : From genetics to hologenetics

17h00 Conclusion- End of the conference



Posters

- Wafa Achouak: Denitrifying process in the rhizosphere under plant species control
- Pascal Alonso: Rice varieties loss within a centennial Chinese agro-system: Impact on rice microbiota and disease emergence
- Jean-Christophe Auguet: Collateral damages of the corallivorous gastropod *Drupella cornus* on coral microbial associates
- Margot Bärenstrauch: Oxylipins at the core of a phytopathogen-endophyte interaction
- Laure Bellec: Prokaryote-nematode interactions in marine extreme environments
- Yvan Bettarel: The viral imprint in coral holobiont
- Caroline Birer: Bacterial metabarcoding and MS metabolomics on insect cuticle: the case of parabiosis in French Guiana “Ant gardens”
- Helge B. Bode: Natural products from symbiotic bacteria are essential for nematode development and growth
- Bouvier Thierry: Changes in the abundance and structure of the bacterial community associated to the hard coral *A. formosa* during an antibiotic treatment
- Marius Bredon: Insights into the lignocellulose degradation from the woodlice holobiont
- Jean-François Briand: Regulation of the epibiotic bacterial community of the Mediterranean Phaeophyceae *Taonia atomaria* by its surface metabolome
- Martijn Callens: Context-dependency of host-microbiota interactions in *Daphnia magna*
- Marine Cambon: Renewing the gut microbiota of insect larva with a bacterial community from the soil: a protocol on *Tenebrio molitor*
- Felipe Campos-Cerda: How far does a holobiont extend? The effect of constructed environments on the host's microbiota
- Isabel Casillas-Barragán: Assembly and disassembly mechanisms of a holobiont system
- Marlène Chiarello: Bottlenose dolphins and killer whales harbor a unique skin microbiome that varies among individuals
- Camille Clerissi: Specificity and stability of microbial communities associated to healthy and diseased *Crassostrea gigas* oysters
- Maarten De Cock: Symbiont diversity and feeding strategies in insect agricultural pests
- Samuel Dupont: Involvement of the environment and genetic background in the composition and dynamics of microbial communities hosted by the hemolymph of the Pacific oysters
- Simon Fellous: The ecology of fly-bacteria-yeast symbiosis: laboratory interactions and their relevance to in-natura processes
- Clémence Frioux: Metabolic network topology to elucidate respective roles of species in a symbiotic community
- Béatrice Gaume: Coral photosymbiosis: linking phylogenetic identity to single cell metabolic activity in mixed symbiont populations
- Chloé Groh: Isoprenoids in plant-bacteria interactions
- Morgane Guégan: Dynamics of *Aedes albopictus* mosquito holobiont in response to temperature changes
- Heidi Kaech: Dual RNAseq to understand costs of symbiont-conferred resistance to parasitoids
- Hetty Kleinjan: Deciphering the impact of symbiotic bacteria during freshwater acclimation in the brown macroalga *Ectocarpus subulatus*: from culture dependent-approach towards integrated ‘omics’
- Joy Lachat: Identification and characterization of bacterial colonization functions in the beanbug *Riptortus pedestris*-*Burkholderia insecticola* symbiosis

Pierre Le Ber: FRANCE GENOMIQUE: A National, world-class infrastructure for genomics and bioinformatics

Benjamin Linard: Accessing the insect holobiont through metagenomic sequencing of gut content or preserving ethanol

Ana Lokmer: Pacific oyster holobiont in an unknown world

Tamsin Lyons: Effect of early life dietary supplementation, with linseed oil, on the ruminal microbiome of lambs

Dali Ma: Lactobacillus plantarum confers robustness to host fitness traits in nutritional duress

Emilie Macke: Genotype-dependent gut microbiota drives zooplankton resistance to toxic cyanobacteria

Anaïs Massé: Functional study of host - microborer interactions in the scleractinian coral holobiont

Hugo Mathé-Hubert: A model of the evolution of endosymbiosis grounded in cross-level exchanges of energy and information

Caroline Michaud: Phylosymbiosis in host-associated gut microbial communities in lower termites

Tsubasa Ohbayashi: The stinkbug–Burkholderia symbiotic system: an ideal model of insect-microbe symbiosis

Anna Oliver: The tree microbiome as part of the extended phenotype?

Benoît Perez-Lamarque: Modeling the host-microbiota coevolution using maximum likelihood inference

Isabelle Pieretti: Development of a multigenic metabarcoding of prokaryotic microbiota: application to Bacteria and Archaea of agronomical interest encountered in the rice rhizosphere of Camargue

Bérénice Piquet: Does apoptosis and cell growth play a role in the host symbionts regulation in the hydrothermal vent mussel Bathymodiolus?

Silvio Pitlik: How holobionts get sick: the pathobiome paradigm

Barbara Porro: Genetic diversity of the symbiont as a driver of the holobiont differentiation in the temperate sea anemone *Anemonia viridis*?

Aura Raulo: Social behavior and gut-microbiota in red-bellied lemurs (*Eulemur rubriventer*): In search of the role of immunity in the evolution of sociality

Maité Ribère: Vertical and horizontal factors shape the microbiome of newborns: a midwife's perspective

Philippe Roumagnac: Spatial metagenomics illuminate the impact of agriculture on the distribution and prevalence of plant viruses at the ecosystem scale

Melanie Sapp: Protists are an integral part of the *Arabidopsis thaliana* microbiome

Dagmara Sirová: Hunters or gardeners? Digestive mutualism in rootless aquatic carnivorous plants

Karen Siu-Ting: A hologenomic assessment of the gut microbiome of poison arrow frogs and their potential role in toxin sequestration by the host

Aimeric Teyssier: The effect of urbanisation on the gut microbiota on the house sparrows

Eve Toulza: An integrative approach to decipher the summer mortality syndrome affecting Pacific oysters

Anne Tourneroche: Molecular interactions between endophytic bacteria and fungi from brown algae in the context of quorum sensing

Matteo Vecchi: Water-bear with me for a moment: the tardigrade microbiota

Chloé Vigliotti: Structuring genetic and taxonomic diversity in gut microbes

Birgit Wassermann: The microbiome of prominent Brassicaceae: health issues for plants and humans

Joël White: Host-microbiome interactions in a changing world: studying the impacts of urbanisation and climate change on the gut microbiota of two wild species

Danielle J. Whittaker: Can symbiotic bacteria influence mate choice in a vertebrate?

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