12h00-14h00 : Accueil des participants + panier repas

14h00-14h15 : Ouverture

14h15-15h00 : Won-Jae Lee (Université de Seoul, Corée du sud)
Role of DUOX in *Drosophila* gut immunity.

SESSION 'MICROBIOTE'
Modérateurs : Dominique Ferrandon, François Leulier

15h00-15h20 : Richard Galinier
ssRNA viruses discovery in the freshwater snail *Biomphalaria*, the intermediate host of intestinal Schistosomiasis.

15h20-15h40 : Morgane Guégan
Impact de la température sur l'interaction entre le moustique tigre et son microbiote bactérien.

15h40-16h00 : Robin Guilhot
The ecology of fly-bacteria-yeast symbiosis: no relevance of laboratory interactions to *in-natura* processes.

16h00-16h30 : pause

SESSION 'EVOLUTION DES INTERACTIONS SYMBIOTIQUES'
Modérateurs : Jean-Michel Drezen, Aziz Heddi

16h30-16h50 : Natacha Kremer
Regulation of *Wolbachia* density in *Drosophila melanogaster.*

16h50-17h10 : Justin Maire
Compartimentalisation immunitaire dans les endosymbioses d'insectes : comment conserver la paisibilité du voisinage ?

17h10-17h30 : Carlos Vargas-Chávez
Exploring host-symbiont interactions through whole genome sequencing of the rice weevil *Sitophilus oryzae.*

17h30-17h50 : Jean-Michel Drezen
Arsenal de gènes de l'immunité dans le génome d'une guêpe endoparasitoïde koinobionte.

17h50-18h10 : Julien Varaldi
Domestication of viral genes in the genus *Leptopilina*, parasitoids of *Drosophila.*

18h10-22h30 : APERO POSTER
RDC bâtiment Pasteur

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9h00-9h45 : Katja Dierking (Université de Kiel, Allemagne)
The Good, the Bad, and the Tasty: Interactions between *C. elegans* and naturally associated microbes.

SESSION 'REGULATEURS DE LA REPONSE IMMUNITAIRE' (partie 1)
Modérateurs : Bruno Lemaitre, Anna Zaidman-Remy

9h45-10h05: Christine Paillard
Pathogen recognition, mucosal immune factors and modulation of apoptosis and NF-kB play a role in disease resistance in the European abalone.

10h05-10h25 : Bernard Charroux
Intestinal and systemic responses to bacteria are respectively controlled by cytosolic and extracellular peptidoglycan degrading enzymes in *Drosophila.*

10h25-10h45 : C. Leopold Kurz
Peptidoglycan sensing by octopaminergic neurons modulates *Drosophila* oviposition.

10h45-11h15 : pause

SESSION 'RELATIONS HOTE / MICRO-ORGANISME(S)' (partie 1)
Modérateurs : Christine Paillard, Aziz Heddi

11h15-11h35 : Aude Lucasson
An integrative approach to decipher the summer mortality syndrome affecting Pacific oysters.

11h35-11h55 : Tristan Rubio
Diversity of virulence mechanisms among oyster pathogens highlights the pivotal role of the cellular immune response as the main anti-bacterial rampart.

11h55-12h15 : Dominique Ferrandon
Systemic microsporidian infection + environment = back to enterocytes.

12h15-12h35 : Vincent Raquin
Innovative transcriptomic analysis of individual *Aedes aegypti* midguts identifies novel host factors during early dengue virus Infection.

12h35-12h55 : Samuel Liegeois
Revisiting the social life of bacteria *in vivo*: deciphering mechanisms of *P. aeruginosa* evasion of *Drosophila* Tep4-mediated opsonisation.

12h55-14h30 : Repas

SESSION 'RELATIONS HOTE / MICRO-ORGANISME(S)' (partie 2)
Modérateurs : Simon Fellous, Natacha Kremer

14h30-14h50 : Florent Masson
Spiroplasma poulsonii as a new model for endosymbiont genetics.

14h50-15h10 : Dali Ma
Gut microbiota buffers the variabilities in host fitness traits in the presence of nutritional stress.

15h10-15h30 : David Duneau
Stochastic variation during the initial phase of bacterial infection predicts the probability of survival in *D. melanogaster.*

15h30-15h50 : Renata Matos
D-Alanine esterification of teichoic acids contributes to *Lactobacillus plantarum* mediated *Drosophila* growth promotion upon chronic undernutrition.

15h50-16h30 : pause + photo de groupe

SESSION 'IMMUNO-ECOLOGIE'
Modérateurs : Christine Braquart-Varnier, Yannick Moret

16h30-16h50 : Christine Braquart-Varnier
V.I.P.s: Vivipary, Immune Priming and symbiosis.

16h50- 17h10 : Virginie Cuvillier
Oocyte immune protection in a marine invertebrate species.

17h10-17h30 : Guillaume Tetreau
Unraveling the molecular basis of trans-generational immune priming (TGIP) in the mealworm beetle.

17h30-17h50 : Julien Dhinaut
Une alimentation en caroténoïde réduit l'immunopathologie et le vieillissement à travers un effet immunodéprimant chez un modèle insecte.

17h50-18h10 : Fanny Vogelweith
Aging and immunity: does it depend on gender, mating and social environment in a group-living earwig?

20h00-23h00 : Dîner de gala
Adresse à préciser

SESSION 'EFFECTEURS DE L'IMMUNITE'
Modérateurs : Philippe Bulet, Frédérick Arnaud

9h00-9h20 : Delphine Destoumieux-Garzon
Salt stable β-defensins preserved from molecular evolution in marine phyla.

9h20-9h40 : David Duval
Les biomphalysines, une nouvelle famille d'effecteurs partageant des analogies structurales avec les beta- toxines bactériennes.

9h40-10h00 : Vincent Grass
Intersection of dengue virus and the *Aedes aegypti* defense pathways at the cell intrinsic level.

10h00-10h20 : Sergio López-Madrigal
Identification and dynamics of the immune cells in the cereal weevil *Sitophilus oryzae.*

10h20-10h50 : pause

SESSION 'REGULATEURS DE LA REPONSE IMMUNITAIRE' (partie 2)
Modérateurs : Delphine Destoumieux-Garzon, Marlène Dreux

10h50-11h10 : Maxime Lafont
Evidence for antiviral immune priming and immune memory in a Lophotrochozoan, the Pacific oyster *Crassostrea gigas.*

11h10-11h30 : Philippe Bulet
Identifying stressors and effectors of the honeybee immune response, through mass spectrometry, may represent a promising solution for bee health monitoring: HematoBeeTest Project.

11h30-11h50 : Bin Wan
Internalisation of *Leptopilina boulardi* venosomes in *Drosophila melanogaster* lamellocytes: specificity and mechanism.

11h50-12h10 : David Duval
Bataille moléculaire entre petits ARNs au sein de l'interaction hôte/parasite, *Biomphalaria glabrata/Schistosoma mansoni.*

12h10-12h30 : clôture du congrès

12h30-14h00 : panier repas