

## Publications

### Peer review

Schmitt S, Heuret P, Troispoux V, Beraud M, Cazal J, Chancerel É, Cravero C, Guichoux E, Lepais O, Loureiro J, Marande W, Martin-Ducup O, Vincent G, Chave J, Plomion C, Leroy T, Heuertz M, Tysklind N. (2024). **Low-frequency somatic mutations are heritable in tropical trees *Dicorynia guianensis* and *Sextonia rubra***, *Proc Natl Acad Sci USA.*, 2024 Mar 5;121(10):e2313312121., DOI: 10.1073/pnas.2313312121

Fouteau S, Bui Van V, Rouy Z, Beraud M, Cruaud C, Cayol JL, Chifflet S, Chu Van T, Pham The T, Vallenet D, Oliveira PH, Mari X, Pradel N. (2022). **Complete Genome Sequence of *Tepidibacter* sp. Strain 8C15b, Isolated from Bank Sediments of Haiphong Bay, Vietnam.** *Microbiol Resour Announc.* 2022 Jul 21;11(7):e0013222. DOI: 10.1128/mra.00132-22.

Matallana-Surget S, Jagtap PD, Griffin TJ, Beraud M, Wattiez R. (2017). **Chapter 17: Comparative metaproteomics to study environmental changes.** In: "IN METAGENOMICS: PERSPECTIVES, METHODS, AND APPLICATIONS". Muniyandi Nagarajan, Elsevier, *in press*, Paperback ISBN: 9780081022689

Levi-Meyrueis C, Monteil V, Sismeiro O, Dillies M-A, Kolb A, Monot M, Dupuy B, Duarte S, Jagla B, Coppee J-Y, Beraud M, Norel F (2015). **Repressor activity of the RpoS/  $\sigma^S$ -dependent RNA polymerase requires DNA binding.** *Nucleic Acids Research* **43**: 1456–1468. DOI: 10.1093/nar/gku1379

Beraud M, Kolb A, Monteil V, D'Alayer J, Norel F. (2010). **A proteomic analysis reveals differential regulation of the  $\sigma(S)$ -dependent *yciGFE(katN)* locus by YncC and H-NS in *Salmonella* and *Escherichia coli* K-12.** *Mol Cell Proteomics* **9**: 2601–2616. DOI: 10.1074/mcp.M110.002493

### Thesis

Beraud M. (2010). **Le locus *yciGFE(katN)* du régulon  $\sigma^S$ : Régulation différentielle chez *E. coli* et *Salmonella* par H-NS et le régulateur YncC.**

## Talks

### Scientific

(2017) Evaluation of the SWATH-MS potential for comparative metaproteomics of complex ecosystems; 2<sup>nd</sup> IMS, Italy

(2013-2016) Annual meeting MRM, Belgium

(2010) Le locus *yciGFE(katN)* du régulon RpoS: Régulation différentielle chez *E. coli* et *Salmonella* par H-NS et le régulateur YncC ; Soutenance publique de thèse

(2010) Differential regulation of the *yciGFE(katN)* locus by H-NS and anti-silencing by RpoS and YncC in *Salmonella* and *E. coli*, K12; Retraite du département de Microbiologie, Institut Pasteur, Paris

(2009) Regulation of *yciGFEkatN* by YncC in *Salmonella* : An H-NS controlled feedforward regulatory loop in the RpoS regulon ; Rencontres doctorales B3MI

### **Popularisation**

(2016) V. Cyriaque and M. Beraud, "Les communautés," *presented at the Nuit des chercheurs 2016, Mons, Belgique.*

(2014-2015) D. Gillan and M. Beraud, "Les bactéries actrices de notre environnement," *presented at the Printemps des Sciences 2014 & 2015, Mons, Belgique.*

### **Posters**

#### **Scientific**

(2017b) Beraud M, Gillan DC, Wattiez R. Targeted metaproteomic analysis suggests the use of oxidative stress to survive zinc exposure, *presented at the 2<sup>nd</sup> International Metaproteomics Symposium, Alghero, Italy.*

(2017a) Beraud M, Giambarresi G, Wattiez R, Gillan D. SWATH-MS increases coverage in metaproteomics. Application to a Zn-stressed marine synthetic community, *presented at the BAGECO14- Bacterial Genetics and Ecology, Aberdeen, UK.*

(2016c) Beraud M, Giambarresi G, Gillan D, Wattiez R. Fishing out rare bacterial proteomes using SWATH-MS in synthetic microbial communities, *presented at the Annual congress of Belgian Society of Microbiology 2016, Bruxelles, Belgium.*

(2016b) Cyriaque V, Gillan D, Beraud M, Billon G, Wattiez R. Evolution and comparison of the metamobilome in metal-contaminated sediment microbial communities, *presented at the ISME16, Montreal, Canada.*

(2016a) Beraud M, Giambarresi G, Gillan D, Wattiez R. Fishing up rare bacterial proteomes using SWATH-MS in synthetic microbial communities, *presented at the ISME16, Montreal, Canada.*

(2014) Beraud M, Kunath B, Roosa S, Liénard F, Wattiez R, Gillan DC. The construction of a synthetic marine microbial community and comparison with shotgun metaproteomics *presented at the ISME15, Seoul, South Korea.*

(2008) Beraud M, Kolb A, Monteil V, D'Alayer J, Norel F. Analysis of the RpoS-dependent proteome in Salmonella using ProteinChip SELDI-TOF technology and characterization of the YncC regulator, *presented at the StaPa, Congress, Paris.*

(2007) Beraud M, D'Alayer J, Monteil V, Kolb A, Norel F. Characterization of the rpoS-dependent regulator YncC in Salmonella enterica serovar Typhimurium, *presented at the B3MI Annual Congress, Denis Diderot University, Paris.*

### **Popularisation**

(2015) Beraud M. Challenge dans la création de communautés microbiennes synthétiques, *presented at the Matinée des chercheurs 2015, Mons, Belgique.*

### **Awards**

(2010) Ministerial Research Ph.D. fellowship (Paris VII-University)

(2007) Scholarship (Paris XI-University)