

## Jessica M. Labonté Curriculum vitae

Department of Marine Biology  
Texas A & M University at Galveston  
200 Seawolf Parkway, Bldg. 3029 Galveston, TX, 77551  
e-mail : labontej@tamug.edu  
Phone : (409) 740-4921

### EDUCATION

- 2013 Ph.D. in microbiology**  
University of British Columbia, Vancouver, BC, Canada  
Department of Microbiology and Immunology  
Thesis : Diversity of ssDNA viruses in marine environments
- 2005 M.Sc. in microbiology**  
Université Laval, Québec, QC, Canada  
Département de biochimie et microbiologie  
Thesis: Characterization of the virulent phage 2972 infecting *Streptococcus Thermophilus*
- 2003 B.Sc. in microbiology**  
Université Laval, Québec, QC, Canada and Université Paul Sabatier, Toulouse, France  
Département de biochimie et microbiologie

### PROFESSIONAL APPOINTMENTS

- 2016-present Assistant Professor**  
Texas A&M University at Galveston
- 2012-2016 Postdoctoral research scientist**  
Bigelow Laboratory for Ocean Sciences  
Single Cell Genomic Center
- 2014-2016 Research scientist**  
Colby College

### PUBLICATIONS

**Labonté, J. M.**, M. A. Lever, K. J. Edwards, and B. N. Orcutt. 2017. Influence of igneous basement on deep sediment microbial diversity on the Eastern Juan de Fuca Ridge Flank. *Frontiers in Microbiology*, 8:1434. doi: 10.3389/fmicb.2017.01434

Stepanauskas, R., E. A. Fergusson, J. Brown, N. J. Poulton, B. Tupper, **J. M. Labonté**, E. D. Becraft, J. M. Brown, M. G. Pachiadaki, T. Povilaitis, B. P. Thompson, C. J. Mascena, W. K. Bellows, and Arvydas Lubys. 2017. Improved genome recovery and integrated cell-size analyses of individual uncultured microbial cells and viral particles. *Nature Communications*. doi: s41467-017-00128-z

**Labonté, J. M.**, B. K. Swan, B. Paulos, H. Luo, S. Koren, S. J. Hallam, M. B. Sullivan, T. Woyke, E. K. Wommack, and R. Stepanauskas. 2015. Single cell sequence based analysis of virus-host interactions in marine surface bacterioplankton. *ISME J.* 9, 2386–2399. doi: 10.1038/ismej.2015.48

**Labonté, J. M.**, S. J. Hallam, and C. A. Suttle. 2015. Previously unknown evolutionary groups dominate the ssDNA gokushoviruses in oxic and anoxic waters of a coastal marine environment. *Frontiers in Microbiology*. doi:10.3389/fmicb.2015.00315

**Labonté, J. M.**, E. K. Field, M. Lau, E. Van Heerden, T. L. Kieft, T. C. Onstott, and R. Stepanauskas. Single cell genomics indicates horizontal gene transfer and viral infections in a deep subsurface Firmicutes population. *Frontiers Microbiol.* doi:10.3389/fmicb.2015.00349

**Labonté, J. M.** and C. A. Suttle. 2013. Metagenomic and whole-genome analysis reveals new lineages of gokushoviruses and biogeographic separation in the sea. *Frontiers Microbiol.* doi: 10.3389/fmicb.2013.00404

**Labonté, J. M.** and C. A. Suttle. 2013. Previously unknown and highly divergent ssDNA viruses populate the oceans. 2013. *ISME J.* 7, 2169–2177. doi: 10.1038/ismej.2013.110

**Labonté, J. M.**, K. E. Reid, and C. A. Suttle. 2009. Phylogenetic analysis indicates evolutionary diversity and environmental segregation of marine podovirus DNA polymerase gene sequences. *Appl Environ Microbiol* 75:3634-3640. doi: 10.1128/AEM.02317-08

Deveau H., R. Barrangou, J. E. Garneau, **J. Labonté**, C. Fremaux, P. Boyaval, D. a Romero, P. Horvath, and S. Moineau. 2008. Phage response to CRISPR-encoded resistance in *Streptococcus thermophilus*. *J Bacteriol* 190:1390-400. doi: 10.1128/JB.01412-07

Le Bourgeois, P., M. Bugarel, N. Campo, M. L. Daveran-Mingot, **J. Labonté**, D. Lanfranchi, T. Lautier, C. Pages, and P. Ritzenthaler. 2007. The unconventional Xer recombination machinery of *Streptococci/Lactococci*. *PLoS Genet.* doi: 10.1371/journal.pgen.0030117

Lévesque C., M. Duplessis, **J. Labonté**, S. Labrie, C. Fremaux, D. Tremblay, and S. Moineau. 2005. Genomic organization and molecular analysis of virulent bacteriophage 2972 infecting an exopolysaccharide-producing *Streptococcus thermophilus* strain. *Appl Environ Microbiol* 71:4057-4068. doi: 10.1128/AEM.71.7

Martinez C., T. J. Avis, J. N. Simard, **J. Labonté**, R. R. Bélanger, and R. J. Tweddell. 2006. The role of antibiosis in the antagonism of different bacteria towards *Helminthosporium solani*, the causal agent of potato silver scurf. *Analysis* 69-75.

## **TEACHING EXPERIENCE**

### **Texas A&M University at Galveston**

- Seminar in Marine Biology MARB 482 (Fall 2016-2017 and Spring 2018)
- Applied Bioinformatics MARB489/689 (Spring 2017-2018)
- Geomicrobiology MARB6590 (co-taught with TAMU-CC Spring 2018)

### **Colby College at Bigelow Laboratory for Ocean Sciences**

- Biological Oceanography (Winters 2013 and 2015) (TA)

### **University of British Columbia**

- Experimental microbiology MICB 421 (Winters 2009 and 2010) (TA)
- Environmental Microbiology Laboratory MICB 401 (Fall 2006) (TA)

### **Université Laval**

- General Biochemistry Techniques (Fall 2004) (TA)
- Microbiology Techniques (Winter 2004) (TA)