

Graduate Schools
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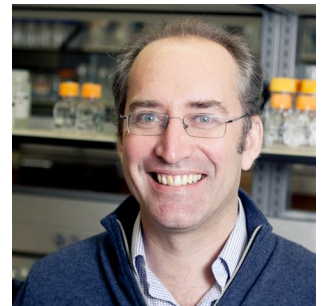
Seminar in Microbiology

Monday, January 6, 2020

Salle de séminaire, E07.3347.a, CMU

11:30 – 12:30

Patrick Eichenberger
New York University, Department of Biology
Center for Genomics & Systems Biology
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Structure and properties of the spore surface in *Bacillus subtilis*

Patrick Eichenberger was trained in the Department of Molecular Biology in Geneva before he moved to the laboratory of Richard Losick where he started to work on *Bacillus*. Since 2004 he has his independent group at NY University and is continuing his work on sporulation and spores in *B. subtilis*. He made important contributions to the bacterial differentiation leading to the formation of endospores.

References:

- Shuster et al., 2019. Expansion of the Spore Surface Polysaccharide Layer in *Bacillus subtilis* by Deletion of Genes Encoding Glycosyltransferases and Glucose Modification Enzymes. *J Bacteriol.* 201. pii: e00321-19
- Shuster et al. 2019. Contributions of crust proteins to spore surface properties in *Bacillus subtilis*. *Mol Microbiol.* 111:825-843.
- Nunes et al., 2018. SpoVID functions as a non-competitive hub that connects the modules for assembly of the inner and outer spore coat layers in *Bacillus subtilis*. *Mol Microbiol.* 110:576-595.
- Arrieta-Ortiz et al., 2015. An experimentally supported model of the *Bacillus subtilis* global transcriptional regulatory network. *Mol Syst Biol.* 11:839.
- McKenney et al., 2013. The *Bacillus subtilis* endospore: assembly and functions of the multilayered coat. *Nat Rev Microbiol.* 2013 Jan;11(1):33-44.