Graduate Schools
Infection Immunity and Cancer, UniGe & UniL: CUS
Biology & Medicine, CMU

Seminar in Microbiology

Monday, April 24, 2017

Salle de séminaire, E07.3347.a, CMU

11:30 – 12:30

Kevin M. Devine

Smurfit Institute of Genetics,
Trinity College Dublin, Ireland

Cell wall anionic polymer metabolism in *Bacillus subtilis* as viewed through the porthole of the PhoPR two-component signal transduction system

Recent key publications:

Salzberg et al. 2015. Genome-wide analysis of phosphorylated PhoP binding to chromosomal DNA reveals several novel features of the PhoPR-mediated phosphate limitation response in Bacillus subtilis. J Bacteriol. 197:1492-506.

Botella et al., 2014. PhoR autokinase activity is controlled by an intermediate in wall teichoic acid metabolism that is sensed by the intracellular PAS domain during the PhoPR-mediated phosphate limitation response of Bacillus subtilis. Mol Microbiol. 94:1242-59.

Noone et al., 2014. A highly unstable transcript makes CwlO D,L-endopeptidase expression responsive to growth conditions in Bacillus subtilis. J Bacteriol. 196:237-47.

Salzberg et al., 2013. The WalRK (YycFG) and σ(I) RsgI regulators cooperate to control CwlO and LytE expression in exponentially growing and stressed Bacillus subtilis cells. Mol Microbiol. 87:180-95.

Noone et al., 2012. Signal perception by the secretion stress-responsive CssRS two-component system in Bacillus subtilis. J Bacteriol.194:1800-14.

Botella et al., 2011. Cell envelope gene expression in phosphate-limited Bacillus subtilis cells. Microbiology 157:2470-84.

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