Seminar in Microbiology
Monday, 12th September, 2016
Salle de séminaire, E07.3347.a, CMU

11:30 – 12:30

Prof. Dr. Josep Casadesús
Departamento de Genética, Facultad de Biología,
Universidad de Sevilla, ES

Luria and Delbrück revisited: non mutational preadaptation to lethal selection.

Josep Casadesús’ group explores how epigenetic mechanisms contribute to the regulation of phenotypic heterogeneity, antibiotic protection and regulation of gene expression. A particular focus is on the role of DNA adenine methylation in these mechanisms, investigated using the methyltransferase Dam as model that is encoded in the Gram-negative pathogen Salmonella enterica where it contributes to variety of virulence- and stress-related phenotypes. Recent work has determined how Dam-regulated genes affect the S. enterica cell envelope, especially modifications of the lipopolysaccharide (LPS) and peptidoglycan (PG) layers.

Selected recent publications:

Contact: P.VIOLLIER & P. LINDER