



# Journées du Département de Microbiologie

1<sup>er</sup> – 2 avril 2010 . 9h00 – 18h00

Auditorium, CIS

Comité d'organisation : Christophe Beloin, Hilde de Reuse, Jean-Marc Ghigo, Tarek Msadek, Patrick Trieu-Cuot

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Institut Pasteur

## jeudi 1<sup>er</sup> avril 2010

09.00 – 09.10	Patrick TRIEU-CUOT : Introduction
<b>Taxonomie, Génomes et Phages</b>	
09.10 – 09.30	Sylvie COUSIN : MLSA and Maldi-Tof tools applied to <i>Lactobacillus</i> for species delineation.
09.30 – 09.50	Céline GOULARD : The <i>Yersinia pestis</i> chromosome encodes four functional Toxin/Antitoxin modules.
09.50 – 10.10	Xavier BELLANGER : Bacterial relaxases for site-specific integration in mammalian chromosomes.
10.10 – 10.30	Patrick FORTERRE : The virocell concept.
10.30 – 11.00	Coffee break
11.00 – 11.20	Eric MORELLO : Bacteriophages-Bacteria interactions in lungs.
11.20 – 11.40	Philippe GLASER : Reductive evolution and host adaptation in streptococci.
11.40 – 12.00	Anne LASSAILLY-BONDAZ : Présentation de la base de données HAL.
12.00 – 12.20	Isabelle SCHMIDT : Présentation de la Direction des Applications de la Recherche et Relations Industrielles (DARRI).
12.20 – 13.55	Lunch – posters session
<b>Régulation</b>	
14.00 – 14.20	Aurelia DELAUNÉ : The essential nature of the WalKR two-component system is linked to cell wall hydrolase activities in <i>Staphylococcus aureus</i> .
14.20 – 14.40	Nuno PEIXEIRO : Structural and functional characterization of transcriptional regulators encoded by hyperthermophilic Archaeal viruses.
14.40 – 15.00	Ana Sofia MACEIRA ANTUNES : CcpA-mediated repression of <i>Clostridium difficile</i> toxin expression.
15.00 – 15.20	Alice CHÂTEAU : <i>Bacillus anthracis</i> master virulence regulator, AtxA, accumulation is controlled at the post-transcriptional and post-translational levels.
15.20 – 15.50	Coffee break – posters session
15.50 – 16.10	Chloé CONNAN : Regulation of toxin production in <i>Clostridium botulinum</i> .
16.10 – 16.20	Olga SOUTOURINA : Global regulation by cysteine in <i>Bacillus subtilis</i> and <i>Staphylococcus aureus</i> .
16.20 – 16.40	Mélanie BERAUD : Differential regulation of the <i>yciGFE(katN)</i> locus by H-NS and counter-silencing by $\sigma^S$ and YncC in <i>Salmonella</i> and <i>Escherichia coli</i> K-12.
16.40 – 17.00	Nicolas SEGHEZZI : Pupylation in <i>Streptomyces</i> : a story of Pup, Dop and Paf.
17.00 – 17.20	Christophe PICHON : The AfaR sRNA regulates the production of the AfaD invasin by pathogenic <i>Escherichia coli</i> .

## vendredi 2 avril 2010

09.00 – 09.20	Nienke BUDELMEIJER : Présentation du Comité d'animation.
<b>Protéines de surface et membranaire</b>	
09.20 – 09.40	Julien GALLAUD : Interactomic analysis points to important ammonia channeling between <i>H. pylori</i> proteins.
09.40 – 10.00	Olaya RENDUELES : Characterization of a new biofilm-specific anti-adhesion polysaccharide in <i>Escherichia coli</i> .
10.00 – 10.20	Mathieu PICARDEAU : Role of Leptospira ImmunoGlobulin-like (Lig) proteins in pathogenic leptospires.
10.20 – 10.50	Coffee break
10.50 – 11.10	Séverine COLLIN : Elucidating the targeting mechanism of an 800 kDa outer membrane protein.
11.10 – 11.30	Jérémy PAILLER : Functional analysis of lipoprotein diacylglycerol transferase (Lgt) of <i>E. coli</i> .
11.30 – 11.50	Michel Yves MISTOU : Glycosylation of surface proteins in Group B Streptococci.
11.50 – 12.10	Jeffrey MELLIN : Iron uptake from heme without breaking the tetrapyrrol ring by deferrochelation.
12.10 – 12.30	Clémence FOURNIER : The <i>Haemophilus influenzae</i> Hxu system for heme uptake from hemopexin.
12.30 – 13.55	Lunch – posters session
<b>Antibiotiques et leurs cibles</b>	
14.00 – 14.20	Ivo G. BONECA : Why is <i>Helicobacter pylori</i> so sensitive to $\beta$ -lactam antibiotics ?
14.20 – 14.40	Meriem EL GHACHI : Characterization of the PBP2/MreC complex and search for new inhibitors.
14.40 – 15.00	Djalal MEZIANE-CHERIF : Drug addict MRSA.
15.00 – 15.20	Emilie TEYSSIÈRES : Characterisation of novel synthetic antibiotics mimicking anti-microbial peptides.
15.20 – 15.40	Coffee break – posters session
15.40 – 16.00	Leyla SLAMTI : Characterization of determinants involved in maintaining the shape of leptospira.
<b>Interactions avec l'hôte</b>	
16.00 – 16.20	Toan NHAM : <i>In vivo</i> tracking of <i>Yersinia pestis</i> .
16.20 – 16.40	Laurent CHÂTRE : Major host mitochondrial instabilities during the human pathogen <i>H. pylori</i> infection.
16.40 – 17.00	Lionel FERRIÈRES : Analysis of protective bacterial interferences using an <i>in vivo</i> zebrafish model of mixed infection.
17.00 – 17.20	Jean-Marc GHIGO : Conclusions
17.30 – ...	Closing cocktail

