

Inserm

From science to health









POPULATION GENETICS OF ESCHERICHIA COLI

Beyond its major role in the discovery of the basic principles of genetic and molecular biology thanks to a couple of strains such as "K-12", Escherichia coli is a key component of the bird and mammal, including human, gut microbiota as well as water and sediments. Commensal, saprophyte but also opportunistic pathogen, E. coli has been ranked this year by WHO first in the critical priority group of antibiotic-resistant bacterial pathogens. A better characterization of the ecological and evolutionary forces shaping the population structure of the species is mandatory for the understanding of the emergence of resistance and virulence.

On the occasion of Erick Denamur' retirement, this symposium will be a "tour de table" of what has been done during the last 25 years on the Bichat campus within his lab, in close relationships with various colleagues. Structured in three main sessions, the symposium will tackle commensalism, virulence and resistance aspects. It will terminate by an historical perspective.

Tuesday 3rd of December 2024 at 10 a.m UPC Bichat Campus, between the Sacré Coeur and the flea market 16 rue Henri Huchard, 75018 PARIS

Registration : <u>https://sondage.app.u-paris.fr/338192</u>



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science pour la santé _____ From science to health







Welcoming

10h Erick Denamur

Ivan Matic Institut Cochin

10h15 - 12h15 - Session 1

10h15 Eduardo Rocha Institut Pasteur

10h45 Olivier Tenaillon Institut Cochin

^{11h15} François Blanquart

Collège de France

11h45Victoire de Lastours & Guilhem RoyerIAMEHôpital Mondor

12h15 Lunch

13h30 - 15h30 - Session 2

13h30 Eric Oswald Université de Toulouse Welcoming Introduction

Phylogenomics of the E. coli species

The E. coli long-term evolution experiment

The commensal lifestyles of E. coli

E. coli bloodstream infections: clinical and bacterial aspects

E. coli and colibactin

14h00 Eugen Pfeifer

14h30 Aude Bernheim Institut Pasteur

15h00 Imane El Meouche

15h45 - 16h30 - Session 3

15h45 Laurent Poirel Université de Fribourg (Suisse)

16h15 Ivan Matic Institut Cochin

16h30 Coffee break

17h00 - 18h00 - Keynote session

17h00 Erick Denamur

18h Closing Phage and phage plasmids as AMR gene vectors

Anti-phage defense systems in *E. coli*

Tolerance in natural E. coli isolates

The antibiotic resistance of *E. coli* since the beginning of the 20th

Synthesis

Le colibacille de Escherich à IAME

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