

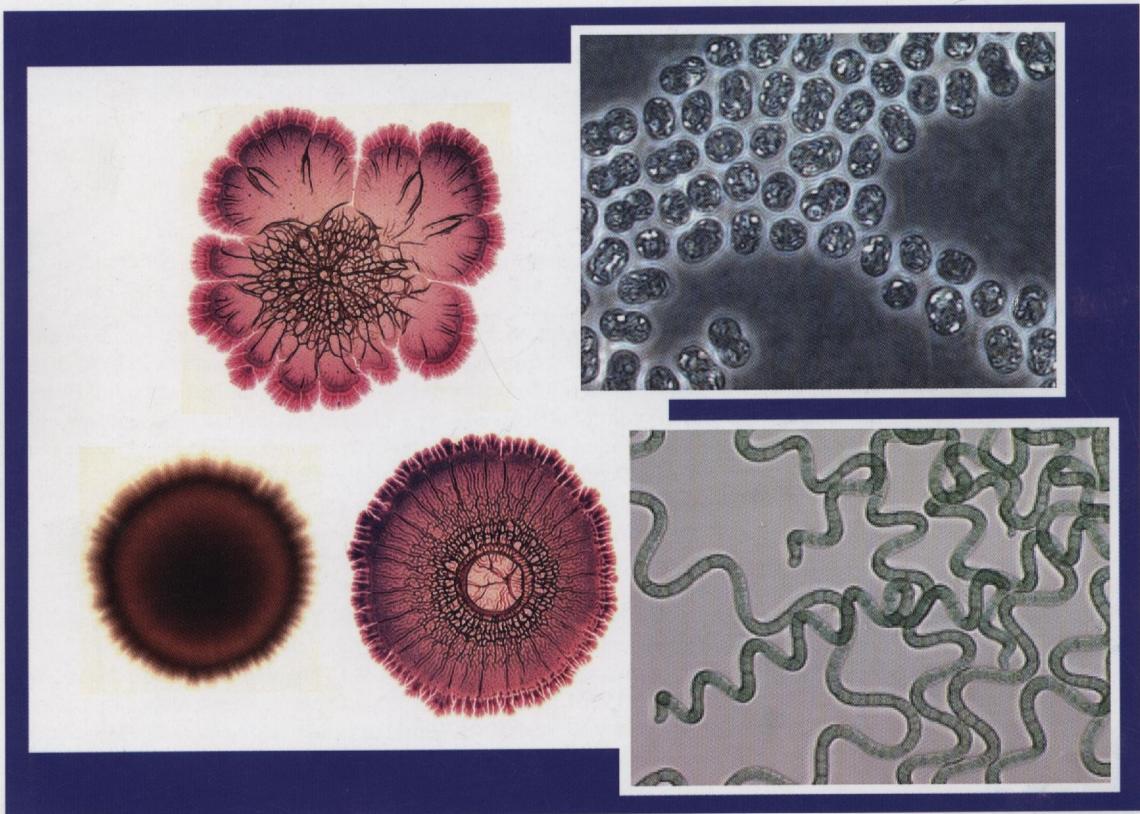


INSTITUT PASTEUR

ISSN 0923-2508

Research in Microbiology

Established in 1887 as the 'Annales de l'Institut Pasteur'



ELSEVIER

Vol. 160



CONTENTS

Cited/abstracted in: Biological Abstracts/Biosis, CNRS/Pascal, Current Contents (Life Sciences), Excerpta Medica/EMbase, Index Medicus/Medline, Science Citation Index, Scopus.

REVIEW

Homologous recombination and dynamics of rhizobial genomes

Ma del Carmen Orozco-Mosqueda, J. Altamirano-Hernandez, R. Farias-Rodriguez, E. Valencia-Cantero, G. Santoyo 733

ORIGINAL ARTICLES

*Ecology and population dynamics***Terminal-restriction fragment length polymorphism analysis of biphenyl dioxygenase genes from a polychlorinated biphenyl-polluted soil**

S. Capodicasa, S. Fedi, M. Carnevali, L. Caporali, C. Viti, F. Fava, D. Zannoni 742

Quantitative PCR of *pmoA* using a novel reverse primer correlates with potential methane oxidation in Finnish fen

T.T. Tuomivirta, K. Yrjälä, H. Fritze 751

*Physiology and metabolism***Hydroxytyrosol from tyrosol using hydroxyphenylacetic acid-induced bacterial cultures and evidence of the role of 4-HPA 3-hydroxylase**

P.-P. Liebgott, A. Amouric, A. Comte, J.-L. Tholozan, J. Lorquin 757

Oxidation of elemental sulfur, tetrathionate and ferrous iron by the psychrotolerant *Acidithiobacillus* strain SS3

D. Kupka, M. Liljeqvist, P. Nurmi, J.A. Puhakka, O.H. Tuovinen, M. Dopson 767

Exploring the acidotolerance of β-galactosidase from *Lactobacillus delbrueckii* subsp. *bulgaricus*: an attractive enzyme for lactose bioconversion

M. Rhimi, N. Aghajari, B. Jaouadi, M. Juy, S. Boudebouze, E. Maguin, R. Haser, S. Bejar 775

Phenotypic changes in ciprofloxacin-resistant *Staphylococcus aureus*

L.R. Mesak, J. Davies 785

*Pathogenic and non-pathogenic interactions***Identification of a polymorphic collagen-like protein in the crustacean bacteria *Pasteuria ramosa***

L. Mouton, E. Traunecker, K. McElroy, L. Du Pasquier, D. Ebert 792

RpoS- and Crp-dependent transcriptional control of *Salmonella Typhi* *taiA* and *hlyE* genes: role of environmental conditions

J.A. Fuentes, M.R. Jofré, N.A. Villagra, G.C. Mora 800

Gene cloning and characterization of *Streptococcus intermedius* fimbriae involved in saliva-mediated aggregation

T. Yamaguchi, M. Matsumoto, Y. Sugimoto, S. Soutome, T. Oho 809

Characterization of intestinal bacteria tightly bound to the human ileal epithelium

S. Fakhry, N. Manzo, E. D'Apuzzo, L. Pietrini, I. Sorrentini, E. Ricca, M. De Felice, L. Baccigalupi 817

*Proteomics***Differential immunoproteomics enables identification of *Metarhizium anisopliae* proteins related to *Rhipicephalus microplus* infection**

L. Santi, W.O. Beys da Silva, A.F.M. Pinto, A. Schrank, M.H. Vainstein 824

Proteomic analysis of *Marinobacter hydrocarbonoclasticus* SP17 biofilm formation at the alkane-water interface reveals novel proteins and cellular processes involved in hexadecane assimilation

P.-J. Vaysse, L. Prat, S. Mangenot, S. Cruveiller, P. Goulas, R. Grimaud 829

Proteomic investigation of enzymes involved in 2-ethylhexyl nitrate biodegradation in *Mycobacterium austroafricanum* IFP 2173

E. Nicolau, L. Kuhn, R. Marchal, Y. Jouanneau 838

Author index 848**Keyword index** 852