



INFECTION, GENETICS AND EVOLUTION

Journal of Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases (MEEGID)

AUTHOR INFORMATION PACK

TABLE OF CONTENTS

●	Description	p.1
●	Audience	p.2
●	Impact Factor	p.2
●	Abstracting and Indexing	p.2
●	Editorial Board	p.2
●	Guide for Authors	p.4



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DESCRIPTION

Infectious diseases constitute one of the main challenges to medical science in the coming century. The impressive development of molecular megatechnologies and of bioinformatics have greatly increased our knowledge of the evolution, transmission and pathogenicity of infectious diseases. Research has shown that host susceptibility to many infectious diseases has a genetic basis. Furthermore, much is now known on the molecular epidemiology, evolution and virulence of pathogenic agents, as well as their resistance to drugs, vaccines, and antibiotics. Equally, research on the genetics of disease vectors has greatly improved our understanding of their systematics, has increased our capacity to identify target populations for control or intervention, and has provided detailed information on the mechanisms of insecticide resistance.

However, the genetics and evolutionary biology of hosts, pathogens and vectors have tended to develop as three separate fields of research. This artificial compartmentalisation is of concern due to our growing appreciation of the strong coevolutionary interactions among hosts, pathogens and vectors.

Infection, Genetics and Evolution and its companion congress **MEEGID** (for **Molecular Epidemiology** and **Evolutionary Genetics** of Infectious Diseases) are the main forum acting for the cross-fertilization between **evolutionary science** and biomedical research on infectious diseases.

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Email: Michel.Tibayrenc[at]ird.fr

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Dustin Brisson, Dept. of Biology, University of Pennsylvania, 433 South University Avenue, Philadelphia, PA 19104-6018, USA

Daniel Cadar, Collaborating Centre for Arbovirus and Hemorrhagic Fever Reference and Research, Bernhard Nocht Institute for Tropical Medicine, World Health Organization (WHO), Bernhard-Nocht-Strasse 74, 20359, Hamburg, Germany

Frederick M. Cohan, Dept. of Biology, Wesleyan University, Middletown, CT 06459, USA

Keith Crandall, Computational Biology Institute, George Washington University, 45085 University Drive, Ashburn, VA 20147-2766, USA

Thierry de Meeus, UMR 177 IRD-CIRAD "INTERTRYP", Institut de Recherche pour le Développement (IRD), Campus International de Baillarguet, 34398, Montpellier Cedex 5, France

William G. Dundon, Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, Animal Production and Health Laboratory, International Atomic Energy Agency (IAEA), Vienna, Austria

Fernando González-Candelas, Instituto "Cavanilles" de Biodiversidad y Biología Evolutiva, Depto. de Genética, Universidad de Valencia, C/ Catedrático Jose Beltran, 2, E-46980, Valencia (Paterna), Spain

Jue Hou, Benaroya Research Institute at Virginia Mason, 1201 9th Ave, Seattle, WA 98101, USA

Tomasz Jagielski, Inst. of Microbiology, Fac. of Biology, Medical University of Warsaw, 1, ILJI MIECZNIKOWA Str., 02-096, Warsaw, Poland

Sebastian Lequime, Rega Institute - Department of Immunology and Microbiology, KU Leuven, Herestraat 49, 3000, Leuven, Belgium

Fabio Luciani, UNSW Australia, Sydney, Australia

Igor Mokrousov, Lab. of Molecular Microbiology, St. Petersburg Pasteur Institute, 14, Mira st., 197101, St. Petersburg, Russian Federation

Serge Morand, Inst. des Sciences de l'Evolution, Université de Montpellier, Case Courier 064, F-34095, Montpellier, France

Dimitrios Paraskevis, National Retrovirus Reference Center, Dept. of Hygiene and Epidemiology, National and Kapodistrian University of Athens, Mikras Asias 75 street (Goudi), 115 27, Athens, Greece

Martine Peeters, Retrovirus Lab., Institut de Recherche pour le Développement (IRD), Montpellier, France

Marcos Perez-Losada, Computational Biology Institute, Innovation Hall, The George Washington University, 45085 University Drive, Suite 305, Ashburn, 20147, USA

Tung Phan, Dept. of Pathology & Lab. Medicine, School of Medicine, Indiana University, 702 Barnhill Drive, Room 0969, Indianapolis, IN 46202-5120, USA

Shoukat Qari*, Office of Public Health Preparedness and Response, Office of Applied Research, Centers for Disease Control and Prevention (CDC), 1600 Clifton Road, MS K-72, Atlanta, GA 30333, Georgia, USA

*Shoukat Qari is serving in his personal capacity. The views expressed are his own and do not necessarily represent the views of the Centers for Disease Control and Prevention or the United States Government.

Benjamin Rosenthal, US Dept. of Agriculture, Animal Parasitic Diseases Lab., Henry A. Wallace-Beltsville Agricultural Res.Cntr., BARC-East Bldg. 1180, Beltsville, MD-20705, USA

Matthew Scotch, Center for Environmental Security, the Biodesign Institute and Security & Defense Systems Initiative, Arizona State University, Tempe, USA

Marie-Anne Shaw, School of Biology, University of Leeds, Woodhouse Lane, LS2 9JT, Leeds, UK

Manuela Sironi, Bioinformatics Scientific Institute IRRCCS E. Medea, Via Don L.Monza, 23842, Bosisio Parini (LC), Italy

Shuo Su, College of Veterinary Medicine, Nanjing Agricultural University, No.1, Weigang, 210095, Nanjing, Jiangsu Province, China

Loubna Tazi, School of Medicine, Dept. of Medical Microbiology & Immunology, University of California, Davis, USA

Rasmi Thomas, US Military HIV Research Program (MHRP), Walter Reed Army Institute of Research, Bldg 503, Silver Spring, MD 20910, USA

Thierry Wirth, ISYEB, UMR-CNRS 7205, Museum National d'Histoire Naturelle, 16 rue Buffon, , 75231, Paris cedex 05, France

Xu Xiaojing, Medical College of Georgia, Georgia Prevention Institute, 1120 15Th Street, Augusta, 30912, USA

Jianpeng Xu, Joint Genome Institute, Lawrence Berkeley National Laboratory, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA

Yong-Gang Yao, Kunming Institute of Zoology, Chinese Academy of Sciences (CAS), No.32 Jiaochang Donglu, Kunming, 650223, Yunnan, China

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INTRODUCTION

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