

## ACTA GENETICAE MEDICAE ET GEMELLOLOGIAE

## TWIN RESEARCH Published by The Mendel Institue, Rome Official Journal of the International Society for Twin Studies

EDITOR-IN-CHIEF

Luigi Gedda

The Mendel Institute, Rome

EDITORIAL BOARD

Gregory R. Alexander

Department of Maternal and Child Health University of Alabama at Birmingham, Birmingham

Gordon Allen

Bethesda, Maryland

Frank Barron

Laboratory for the Psychological Study of Lives University of California, Santa Cruz

**Kurt Benirschke** 

Zoological Society of San Diego, California

Kare Berg

Institute of Medical Genetics, University of Oslo

Isaac Blickstein

Department of Obstetrics and Gynecology

Kaplan Hospital, Israel

Jan A. Böök

Institute of Medical Genetics University of Uppsala, Sweden

Joe C. Christian

Department of Medical Genetics Indiana University, Indianapolis

E. Defrise-Gussenhoven

Laboratory of Human Genetics Free University of Brussels

Lindon J. Eaves

Department of Human Genetics Medical College of Virginia, Richmond

Aldur W. Eriksson

Anthropogenetic Institute Free University of Amsterdam

Manning Feinleib

National Center for Health Statistics

Hyattsville, Maryland

David W. Fulker

Institute for Behavioral Genetics University of Colorado, Boulder

Irving I. Gottesman

Washington University Medical Center

St. Louis, Missouri

Isaac Halbrecht

B. Gattegno Research Institute of Human Reproduction and Fetal Development Hasharon Hospital, Petah Tiqva, Israel

Mogens Hauge

Institute of Clinical Genetics University of Odense, Denmark Joseph M. Horn

Department of Psychology University of Texas, Austin

Zdenek Hrubec

National Cancer Institute Bethesda, Maryland

Yoko Imaizumi

Institute of Population Problems Ministry of Health and Welfare, Japan

Eijii Inouye

Institute of Brain Research, University of Tokyo

Lyssy F. Jarvik

Department of Psychiatry

University of California, Los Angeles

Louis Keith

Department of Obstetrics and Gynecology Northwestern University, Chicago

R.D.G. Leslie

St. Bartholomew's Hospital, London

**Gerhard Koch** 

Institute of Human Genetics

University of Erlangen-Nürnberg, FRG

Einar Kringlen

Institute of Behavioral Sciences in Medicine University of Oslo

Jérôme Lejeune

Institute of Progenesis, University of Paris

F. Leroy

Department of Obstetrics and Gynecology

Free University of Brussels

lan MacGillivray

Bristol, UK

Ashley Montagu

Princeton, New Jersey

Walter E. Nance

Department of Human Genetics Medical College of Virginia, Richmond

Koichi Nonaka

Department of Hygiene

University School of Medicine, Japan

Jean-Claude Pons

Service de Gynécologie-Obstetrique I Groupe Hospitalier Cochin, Paris

John D. Rainer

Department of Psychiatry Columbia University, New York

Francisco M. Salzano

Institute of Biosciences, UF RGS

Porto Alegre, RS, Brasil

Krishan Sharma

Department of Anthropology Panjab University, India

Acta Geneticae Medicae et Gemellologiae is published quarterly by The Mendel Institute, Piazza Galeno 5, 00162 Rome, Italy.

Subscription price: Volume 45 (1996), 4 issues of approx. 100 pages each: US S 300.00. Airmail supplement: US \$ 30.00 (Oceania US \$ 40.00).

Indexed by: Current Contents/Life Sciences - Social Sciences index • Psychological Abstracts • Biological Abstracts • Excerpta Medica • Institute of Scientific Information USSR.

Printed in Italy

Autorizzazione del Tribunale di Roma - Registro Stampa N. 345/83 del 7.12.1983

Direttore responsabile: Luigi Gedda

© 1992 by Associazione Istituto di Genetica Medica e Gemellologia Gregorio Mendel

We are honoured to publish a choice of the Proceedings from the International Symposium on "Genomic Imprinting" held in Florence, 20-22 November 1994, in our journal Acta Geneticae Medicae et Gemellologiae. The phenomenon of genomic imprinting, discussed and tested on animals by molecular genetics, can also be traced in some hereditary diseases in man.

The different pahts of the methylation of gametes which determine the genomic imprinting might be found in other diseases not necessarily linked to hereditary factors and even in normal characters. Human and medical genetics are, then, deeply interested in studying the phenomenon. Hereditary diseases should, therefore, considered not only as the product of a specific genotype but also as the product affected by the remaining genome. A phenomenon which we hypothesized several years ago and that we called "Genius familiaris morbi".

I would like to thank Prof. M.L. Giovannucci Uzielli for publishing the Proceedings of the Symposium in our journal.

Luigi Gedda