

**ACTA
GENETICAE MEDICAE
ET GEMELLOLOGIAE**

ACTA GENETICAE MEDICAE ET GEMELLOLOGIAE

Rivista Internazionale Trimestrale di Genetica Medica e di Gemellologia

Organo ufficiale del

Permanent Committee for the International Congresses
of Human Genetics
e della Società Italiana di Genetica Medica

Direttore

LUIGI GEDDA

Roma

Comitato di Redazione

M. F. Ashley-Montagu, Princeton - J. Bauer, Los Angeles - F. Buschke, S. Francisco
M. Caullery, Paris - C. W. Cotterman, Ann Arbor - H. Cummins, New Orleans
† G. Dahlberg, Uppsala - H. F. Dorn, Bethesda - N. Ford-Walker, Toronto
A. Franceschetti, Genève - J. François, Gand - E. Gandini, Ferrara - A. Gesell, New
Haven - L. Gianferrari, Milano - H. Grebe, Frankenberg-Eder - W. W. Greulich, Stan-
ford - E. Hanhart, Ascona - † F. J. Kallmann, New York - H. Kalmus, London - † T.
Kemp, København - G. Koch, Münster - G. Korkhaus, Bonn - M. Lamy, Paris - W.
Lehmann, Kiel - R. Luchsinger, Zürich - C. F. Mayer, Washington - A. Maltarello,
Roma - † H. H. Newman, Hendersonville - D. C. Rife, Columbus - J. E. Schulte,
Maastricht - † G. C. Schwesinger, Ventura - H. W. Siemens, Leiden - K. A. Stiles,
East Lansing - P. Stocks, London - H. H. Strandkov, Chicago - U. Teodori, Firenze
M. Torrioli, Roma - R. Turpin, Paris - L. J. Unger, New York - O. v. Verschuer,
Münster - P. J. Waardenburg, Arnhem - R. Warner, Buffalo - A. S. Wiener, Brooklyn

VOLUME XVI

1967

ROMA

TIPOGRAFIA POLIGLOTTA VATICANA

L. Gedda, F. Calabresi, G. Del Porto, A. Del Porto-Mercuri, A. Alfieri, G. Torrioli-Riggio, L. Romei (Roma): On a Case of Rare Chromosomal Aberration	I
<i>Su di un raro caso di aberrazione cromosomica. — Sur un cas de rare abérration chromosomique. — Über einen seltenen Fall von Chromosomenanomalie.</i>	
L. Gedda, G. Torrioli-Riggio, L. Romei, A. Alfieri, F. Calabresi, G. Del Porto, R. Gentile (Roma): A Case of Familial Chromosomal Aberration with A Group Mosaic	8
<i>Aberrazione cromosomica familiare con mosaico del gruppo A. — Abérration chromosomique familiale avec mosaïque du groupe A. — Familiäre Chromosomenanomalie mit Mosaik der Gruppe A.</i>	
M. Bartalos (Washington): On the Concepts of Chronon and Chronaxy and their Implications in Neoplasia	21
<i>Sui concetti di cronon e di cronassia e loro implicazioni nelle neoplasie. — Sur les concepts de chronon et de chronaxie et leur implications dans les néoplasies. — Über die Begriffe « Cronon » bzw. « Chronaxie » und deren Beziehungen mit Neoplasien.</i>	
I. Emerit, P. Vernant, P. Corone, J. de Grouchy (Paris): Malformations Extracardiaques associées à des Cardiopathies Congénitales	27
<i>Malformazioni extracardiache associate a cardiopatie congenite. — Extracardiac malformations associated to congenital heart diseases. — Ausserherzenmissbildungen in Verbindung mit angeborenen Kardiopathien.</i>	
I. Stone (Staten Island): The Genetic Disease, Hypoascorbemia	52
<i>L'ipoascorbemia come malattia genetica. — L'hypoascorbémie comme maladie génétique. — Die Erbkrankheit Hypoascorbämie.</i>	
J. François, F. Haustrate-Gosset, D. Donck (Ghent): Macular Dystrophy in Deafmutism	63
<i>La distrofia maculare nel sordomutismo. — La dystrophie maculaire dans la surdimutité. — Dystrophia macularis in Verbindung mit Taubstummheit.</i>	

P. Parisi, M. Di Bacco (Roma): Le Impronte Digitali nei Gemelli.	71
<i>Fingerprints in twins. — Les empreintes digitales chez les jumeaux. — Fingerabdrücke bei Zwillingen.</i>	
A. Bardhan (Delhi): A Short Note on the Birth Order, Parental Age and the Incidence of Oral Clefts	101
<i>Ordine di genitura, età parentale e frequenza delle malformazioni orali. — Ordre de naissance, âge parental et fréquence des malformations orales. — Geburtsordnung, Alter der Eltern und Häufigkeit der Mundmissbildungen.</i>	
News	106
Recensioni	107

L. Gedda (Roma): Concetti e Problemi della Genetica Medica	109
<i>Concepts and problems of medical genetics. — Concepts et problèmes de la génétique médicale. — Konzepte und Probleme der Medizingenetik.</i>	
J. François, M. T. Matton-Van Leuven, P. Kluyskens (Ghent): Cytogenetic Study of Otosclerosis	124
<i>Studio citogenetico dell'otosclerosi. — Etude cytogénétique de l'otosclérose. — Zytogenetische Untersuchung der Otosklerose.</i>	
J. Spital, G. Schellong, W. Scholz (Münster): Dysostosis Cleidocranialis in einer Sippe mit Zwillingen	159
<i>Dysostosi cleidocranica in una famiglia con gemelli. — Cleidocranial dysostosis in a family with twins. — Dysostose cleidocranienne chez une souche avec des jumeaux.</i>	
× U. Villani (Reggio Emilia): Tumore Concordante del Testicolo in una Coppia di Gemelli Monozigoti	172
<i>Concordant tumour of the test in a MZ twin pair. — Tumeur concordante du testicule chez un couple de jumeaux MZ. — Konkordante Geschwulst der Hode bei EZ Zwillingen.</i>	
B.M. Das (Assam): Somatic Variability in South Goalpara, Assam	178
<i>Variabilità somatica nel Goalpara Meridionale (India). — Variabilité somatique dans le Goalpara Méridional (Inde). — Somatische Variabilität im Süden-Goalpara (Indien).</i>	
F. Durante, G. Umani-Ronchi (Roma): Il Sistema Gm nella Popolazione del Lazio	190
<i>Gm system in Latium. — Le système Gm dans le Latium. — Das Gm System im Latium.</i>	
M. K. Bhasin (Delhi): A Study of the Distribution of Mid-Digital Hair among Newars of Nepal	199
<i>Studio della distribuzione del pelo sulle dita nei Newars del Nepal. — Etude sur la distribution du poil sur les doigts chez les Newars du Nepal. — Untersuchung über die Fingergliedbehaarung bei den Newars im Nepal.</i>	
H. J. Muller: In Memoriam	214

- L. Gedda, D. Casa, G. Brenci (Roma): Chronon and the Problem of Anticipation (On two family cases of diabetes) 217

Il cronon ed il problema dell'anticipazione (Su due casi familiari di diabete). — Le chronon et le problème de l'anticipation (Sur deux cas familiaux de diabète). — Das Chronon und das Problem der Antizipation. (Über zwei Familienfälle von Diabetes).

- A. R. Kaplan, R. Fischer, A. Karras, F. Griffin, W. Powell, R. W. Marsters, E. V. Glanville (Cleveland): Taste Tresholds in Twins and Siblings . . . 229

Soglie del gusto in gemelli e siblings. — Seuils du goût chez des jumeaux et siblings. — Geschmacksschwellen bei Zwillings- und Geschwisterpaaren.

- F. Immeyer (Hamburg): Lippen-Kiefer-Gaumenspalten bei thalidomidgeschädigten Kindern 244

Cheilognatopalatoschisi in embriopatici da talidomide. — Cleft lip and palate in thalidomide-induced embryopathies. — Chéilognatopalatoschise chez des embryopathiques à thalidomide.

- W. Geets (Bruxelles): Influence des Radiations Ionisantes sur le Développement du Système Nerveux 275

Influenza delle radiazioni ionizzanti sullo sviluppo del sistema nervoso. — Influence of ionizing radiations on the development of the nervous system. — Einfluss der ionisierenden Strahlungen auf die Entwicklung des Nervensystems.

- T. R. Wilson (Manchester): Strain and Sex Differences in Gastric Ulceration in Restrained Rats 310

Differenze di ceppo e di sesso nell'ulcerazione gastrica in ratti in costrizione. — Différences de souche et de sexe dans l'ulcération gastrique chez des rats en contrainte. — Geschlechts und Stammesunterschiede in der Magenulzeration bei Ratten in Einengung.

J. C. Sharma (Chandigarh): Taste Sensitivity to Phenylthiocarbamide among three Mongoloid Populations of the Indian Border 317

Il gusto per la PTC in tre popolazioni mongoloidi della frontiera indiana. — Le goût pour la PTC chez trois populations mongoloïdes de la frontière indienne. — Geschmacksempfindlichkeit für PTC bei drei mongoloïden Populationen an der indischen Grenze.

Permanent Committee for the International Congresses of Human Genetics
Announcement 325

L. Gedda (Roma): Médecine et Eugénisme	329
<i>Medicina ed eugenica — Medicine and eugenics — Medizin und Eugenik.</i>	
D. C. Rife (Gainesville): The Inheritance of Red Hair	342
<i>Ereditarietà dei capelli rossi — Hérité des cheveux roux — Die Erbllichkeit roter Haare.</i>	
L. Gedda, M. L. Restivo-Manfridi, L. Romei (Roma): Quadro Elettroencefalografico in una Famiglia con due Fratelli affetti da Retinopatia Pigmentosa, Ipoacusia, Polidattilia	350
<i>Electroencephalographic picture in a family with two brothers affected by pigmentary retinopathy, hypoacusia and polydactylia — Tableau encéphalographique chez un famille avec deux frères atteints de rétinopathie pigmentaire, hypoacusie et polydactilie — EEG-Bild einer Familie, in der zwei Brüder an Retinopathia pigmentosa, Schwerhörigkeit und Polydactilia leiden.</i>	
M. Meyer-Robisch, G. Schwanitz (Nürnberg): Familiäre D/E-Translokation	365
<i>Traslocazione D/E familiare — Familial D/E translocation — Translocation D/E familiare.</i>	
N. Ricci, B. Ventimiglia, B. Dallapiccola (Ferrara): Studio Citogenetico di 140 Pazienti affetti da Sindrome di Down	376
<i>Cytogenetic study of 140 patients with Down's syndrome — Etude cytogénétique de 140 individus atteints de syndrome de Down — Zytogenetisch Untersuchung von 140 Patienten mit Down'schem Syndrom.</i>	
B. Dallapiccola, N. Ricci (Ferrara): I Dermatoglifi nella Sindrome di Down Tipica ed Atipica	384
<i>Dermatoglyphics in typical and atypical Down's syndrome — Les dermatoglyphes dans les syndrome de Down typique et atypique — Die Hautleistenzeichnung beim typischen und atypischen Down'schen Syndrom.</i>	
A. Rasore-Quartino (Genova): Gemelli MZ con Mongolismo Concordante	395
<i>Concordant MZ mongoloid twins — Jumeaux MZ mongoloïdes concordants — EZ - Paare mit konkordantem Mongolismus.</i>	

H. K. Goswami (Narsingharh): Studies on Twins. I: Typhoid Favours Cotwins	402
<i>Studi gemellari. I: Malattia tifoide — Etudes de jumeaux. I: La maladie typhoïde — Zwillingsuntersuchungen. Typhuserkrankung.</i>	
U. Bigozzi, M. Bigazzi, R. Guazzelli, F. Melani (Firenze): Gozzo con Ipotiroidismo dovuto a Difetto Familiare di Desiodazione delle Iodotirosine	410
<i>Goitre and hypothyroidism: familial defect of deiodation of iodotyrosines — Goitre et hypothyroïdisme: un défaut familial de désiodation des iodotyrosines — Kropf mit Hypothyreoidismus durch familiären Jodmangel der Jodthyrosine.</i>	
K. C. Malhotra (Poona): The Incidence of Inherited Defects of Colour-Vision in Eight Endogamous Groups of Maharashtrian Brahmins	417
<i>Frequenza delle discromatopsie in otto gruppi endogamici di Bramini Maharashtrian — Fréquence des discromatopsies chez huit groupes endogamiques de Brahmins Maharashtrian — Das Vorkommen erblicher Farbsehfehler bei acht endogamen Gruppen von Maharaschtra Brahminen.</i>	
R. S. Bali (Saugar): Heritable Behaviour of Dermal Configurations of Toes in Relation to Sex	422
<i>Eredità dei dermatoglifi delle dita del piede in rapporto al sesso — Hérité des dermatoglyphes des orteils en rapport au sexe — Die Geschlechtsgebundenheit in der Vererbung der Zehenleistenzeichnung.</i>	
Index Generalis 1967	429

Direttore responsabile: Prof. LUIGI GEDDA
 Autorizzazione del Tribunale di Roma N. 2481 — 9 gennaio 1952

TIPOGRAFIA POLIGLOTTA VATICANA

EUGENICS QUARTERLY

Published by the AMERICAN EUGENICS SOCIETY, Inc.
230 Park Avenue, New York 17, N. Y.

Vol. 14, No. 4

December 1967

Contents

*Some Observations on Recent Changes in American Fertility
Based on Sample Survey Data*, David Golberg

*The Level of Nonwhite Fertility in the United States, 1930
and 1920*, Melvin Zelnik

Colorblindness Among Korean Students, Yung Sun Rang,
Suk Woo Lee, Suzy, Park, and Wan Kyoo Cho

Some Effects of Being Able to Control Sex of Offspring,
Edward Pohlman

The Oneida Community Experiment in Stirpiculture, Hilda
Herrick Noyes and George Wallingford Noyes

Brief Reports

*A Note on Changes in Age at Marriage of Females and
Their Effect on the Birth Rate in India*, Prem P. Talwar

Genetics and Schizophrenia, Arnold R. Kaplan

*The Concept of Adaptation in the Study of Human Popu-
lations*, Joel Cracraft

Reply to Cracraft's Comments, Pete E. Lestrel

Communication

*Report on a Conference: The Transmission of Schizophre-
nia*, Arnold R. Kaplan

Book Reviews: Demography, Clyde V. Kiser, *Genetics*,
Arnold R. Kaplan

Periodical Abstracts

Genetics, Gordon Allen

EDITORIAL BOARD

Frederick Osborn, *Chairman*

Gordon Allen

Frank Lorimer

Richard H. Osborne, *Acting Editor*

Consulting Editors: JAN BÖÖK, F. CLARKE FRASER

CLYDE V. KISER, LEIGHTON VAN NORT, L. D. SANGHVI, JEAN SUTTER

EUGENICS QUARTERLY is published March, June, September, and December at 3110 Elm Ave., Baltimore 11, Md., for the American Eugenics Society, Inc., Room 1523, 230 Park Avenue, New York 17, N. Y. **EUGENICS QUARTERLY** is mailed to all members of the Society and to non-member subscribers. Subscription price, \$ 7.00 per year. Inquiries about membership in the American Eugenics Society should be addressed to the Secretary of the Society, 230 Park Avenue, New York 17, N. Y. Single copies, \$ 2 plus postage. Second-class postage paid at Baltimore, Maryland © 1961 by the AMERICAN EUGENICS SOCIETY, INC. All rights reserved.

TWINS IN HISTORY AND SCIENCE

LUIGI GEDDA

Professor of Medical Genetics
Rome University -
Director
Istituto di Genetica Medica e Gemellologia
"Gregorio Mendel"
Rome, Italy

Translated by
MARCO MILANI-COMPARETTI

With a Foreword by
ROBERT M. STECHER, M.D.

CHARLES C THOMAS • PUBLISHER • SPRINGFIELD • ILLINOIS



CONTENTS

Twins in Mythology and
the Arts

History and Science of
Twins

Twins in Plant and
Animal Life

Frequency of the
Twinning Phenomenon

Etiologic Background
Factors in Twinning

The Genetics of
Twinning

Embryology of Twinning

Twin Pregnancy: Its
Physiology and Pathology

Anatomical Studies of
Twins

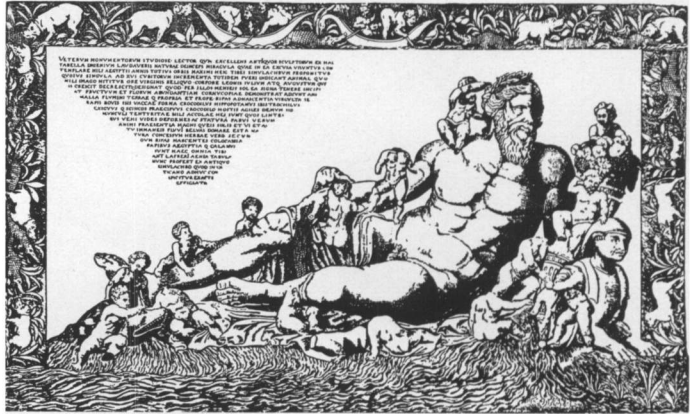
pages 240
154 illustrations
IX color tables
\$ 12,50

TWINS IN HISTORY AND SCIENCE

"Professor Gedda has successfully assembled the world's knowledge of twins and of twinning. He has presented the data completely, he has discussed it authoritatively and he has produced an inspiring book which promises to arouse interest anew in the English speaking world in the subject of twins".

From the Foreword by ROBERT M. STECHER, M. D.

CHARLES C THOMAS • PUBLISHER • SPRINGFIELD • ILLINOIS



Proceedings of the Second International Congress of Human Genetics

- Volume I** Introduction and History of the Congress
From Mendelian to Molecular Genetics in Man
Population Genetics, Mutation and Natural Selection
Methods in Human Genetics
Twins and Human Genetics
Inheritance of Normal Quantitative and Qualitative Human Traits
Microbial and Biochemical Genetics
- Volume II** Genetic and Biochemical Aspects of Human Serum Factors
Blood Groups
Clinical Genetics
Chromosome Genetics
Cancer, Leukemia and Ionizing Radiations
- Volume III** Malformations
Dermatoglyphics
Neurological Genetics
Psychological and Behavioral Genetics
Psychiatric Genetics
Hereditary Diseases of the Sense Organs
Genetic Counseling and Public Health

Lit. 22.000 - \$ 36.00

(1 volume: Lit. 10.000 - \$ 16.00)

Published by «Istituto Gregorio Mendel» - Rome 1963