

Volume 27, Number 3

July 1995

Journal of  
**Biosocial  
Science**

Incorporating *Biology and Society* of the  
Galton Institute

Published by the Biosocial Society

Cambridge, England

Editor: C. G. N. Mascie-Taylor

### Editorial Board

J. A. Beardmore (Swansea, UK)	G. W. Lasker (Detroit, USA)
A. H. Bittles (Perth, Australia)	D. M. Potts (Berkeley, USA)
J. L. Boldsen (Odense, Denmark)	P. F. Selman (Newcastle, UK)
R. A. Chester (Hull, UK)	D. F. Roberts (Newcastle, UK)
D. A. Coleman (Oxford, UK)	L. Rosetta (Paris, France)
E. Haines (Newcastle, UK)	I. Timaeus (London, UK)
G. A. Harrison (Oxford, UK)	S. J. Ulijaszek (Cambridge, UK)
A. G. Hill (Boston, USA)	V. Reynolds (Oxford, UK)

Associate Editor: M. A. Herbertson

### Notice to Contributors

The *Journal of Biosocial Science* publishes original papers, short reports; reviews, lectures, and book reviews dealing with social aspects of human biology, including reproduction and its control, gerontology, ecology, genetics and applied psychology; with biological aspects of the social sciences, including sociology, social anthropology, education and criminology; with social and biological elements of nutrition, growth and development, health and epidemiology; and with biosocial aspects of demography. Preference will be given to material which is clearly interdisciplinary.

Papers are considered for publication on the understanding that they have not been, and will not be, published elsewhere in whole or in part, and that, where customary, they have been approved for publication by the relevant Head of Department. The Editor is not responsible for any loss of or damage to manuscripts or illustrations and his decision on all editorial matters is final. This Journal is covered by *Current Contents*, *Biological Abstracts*, *Psychological Abstracts* and *Population Index*.

**Manuscripts** should be sent in duplicate to the Editor, *Journal of Biosocial Science*, Department of Biological Anthropology, Downing Street, Cambridge CB2 3DZ. They should be clearly typewritten, on one side of the paper only, with a 14 inch margin, and be double-spaced and in the English language. Spelling should follow that of the *Concise Oxford Dictionary*. The Editor reserves the right to make minor literary emendations in the final editing, but manuscripts will not be altered substantially without consultation with the author or marked unless the paper is thought provisionally to be acceptable. The author is responsible for the accuracy of quotations, tabular matter and references. Manuscripts or tables prepared on dot-matrix printers are not acceptable.

**Manuscripts** should bear the title of the paper, name of the Institution where the work was done, the present postal address of the author if different from that of the Institution, and a short running head of not more than 50 letters. Titles should be brief. A short summary should precede the text. Acknowledgments should be made in a separate section. For papers on infant feeding, the use of Labbok & Krasovec's definitions of infant/breast-feeding groups (*Stud. Fam. Plann.* (1990) 21, 226) is recommended.

**Diagrams** must be numbered and should bear the author's name, short title of the paper and figure number on the back. Captions should be typed on a separate sheet.

**Tables** should be typed on separate sheets, be given Arabic numbers and be headed by adequate captions. Their approximate position in the text should be indicated by a note in the margin. They should not exceed in size the equivalent of one page of print. Weights and measurements should be given in metric units. Standard abbreviations should be used ( $\mu\text{g}$ , mg, g, kg; ml, l; mm, cm, m, km, °C, %, <, >, hr, min). Abbreviations should not be followed by, and initials need not be separated by, full points (eg, FPA). Mean values should, where possible, be accompanied by standard errors or similar statistical indications of variance.

**References** in the text should be given in the manner that is standard in the Journal. Titles of journals should be abbreviated according to the *World List of Scientific Periodicals*, 4th edn (1964) and its supplements, and as also given in *World Medical Periodicals*. An unpublished paper should not be cited unless it is already in press.

**Debate.** A *Debate* section is reserved for comments on papers appearing in previous issues. Authors whose papers are involved will be given an opportunity to reply for simultaneous publications. The Editor's decision as to publication of comments is final. Comments, not exceeding 500 words (one printed page), should be sent to the Editor.

**Proofs** will be sent to contributors for minor corrections, and should be returned to the Editor within one week. Major alterations to the text will be accepted only at the author's expense. The date of receipt given at the end of the paper is that on which the script as published was received or agreed.

**Offprints.** A copy of the issue of the Journal in which the paper appears will be supplied free to the author, or, where there are two or more, to the author responsible for ordering offprints. Offprints may be purchased by ordering on the form sent out with the proofs.

© Biosocial Society. With the exception of abstracts of no more than 300 words, no part of this publication may be reproduced or stored in a retrieval system in any form or by any means without the permission of both the Biosocial Society and the author.

# JOURNAL OF BIOSOCIAL SCIENCE

The *Journal of Biosocial Science* is published by the Biosocial Society and distributed by the Portland Press (formerly the Biochemical Society Book Depot).

*Orders, payments and enquiries regarding distribution* should be sent to:

**Journal of Biosocial Science,  
PO Box 32, Commerce Way,  
Colchester CO2 8HP,  
UK**

For 1995 (Volume 27) there will be four issues, published in January, April, July and October.

The subscription rates for 1995 are:

	UK and overseas (surface mail)	USA, Canada and Mexico (by air)
Annual subscription	£66.00	\$126.00
Per part	£22.00	\$33.50

To avoid a break in continuity subscribers are asked to place their orders, either direct or through an agent, by mid-December. Should a Standing Order be required, this should be indicated in the order instructions and an invoice will then be sent automatically in the last quarter of each year.

Limited numbers of earlier issues are available. Volumes 1–10 (1969–78, original price £111.50) are offered to subscribers at the special price of £52.00 (US\$105.00) for the set.

*Manuscripts for publication and books for review* should be sent to:

**The Editor,  
Journal of Biosocial Science,  
Department of Biological Anthropology,  
Downing Street,  
Cambridge CB2 3DZ,  
UK**

Second-class postage paid at South Hackensack, USA.

*Postmaster:* Send address changes to: Royal Mail International, c/o Yellowstone International, 2375 Pratt Boulevard, Elk Grove Village, IL 60007-5937, USA.

# JOURNAL OF BIOSOCIAL SCIENCE

Vol. 27, No. 3

Contributors

July 1995

- D. J. Adamchak** Professor, Department of Sociology, Kansas State University, Manhattan, Kansas, USA p. 319
- M. Afzal** Lecturer, Department of Zoology, Aligarh Muslim University, India p. 333
- Jo Alberti** Freelance teacher and writer, The Open University, Northern Region p. 373
- A. Ankomah** Lecturer, Institute of Population Studies, University of Exeter p. 301
- Badaruddoza** Research Associate, Department of Zoology, Aligarh Muslim University, India p. 333
- S. Bergström** Professor, Department of International Health, University of Oslo, and Department of Obstetrics and Gynaecology, Ullevål Hospital, Oslo p. 253
- E. Bohl** Professor of Mathematics, University of Konstanz, Germany p. 285
- E. Bohler** Medical Doctor, Department of Paediatrics, Ullevål Hospital, Oslo p. 253
- M. A. Chiezah** Department of Sociology, Kansas State University, Manhattan, Kansas, USA p. 319
- Pamela Cotterill** Senior Lecturer, Sociology Division, Staffordshire University p. 374
- John Bond** Professor of Health Services Research, University of Newcastle upon Tyne p. 369
- M. Brockerhoff** Staff Associate, Research Division, The Population Council, New York p. 347
- Ian Diamond** Professor of Demography, Department of Social Statistics, University of Southampton p. 277
- N. Ford** Lecturer, Institute of Population Studies, University of Exeter p. 301
- Jo Garcia** Social Scientist, National Perinatal Epidemiology Unit, Oxford University p. 372
- Elina Hemminki** Research Professor, National Research and Development Centre for Welfare and Health, Health Services Research Unit, Helsinki p. 267
- Judith Kovenock** Carolina Population Center, University of North Carolina, Chapel Hill, NC, USA p. 359
- P. C. Lee** Lecturer, Department of Biological Anthropology, University of Cambridge p. 377
- A. Meier-Koll** Professor of Neuropsychology, Department of Psychology, University of Konstanz, Germany p. 285
- Kazuhiko Moji** Associate Professor, Department of Public Health, University of Nagasaki School of Medicine, Japan p. 339
- Naomi M. Morris** Community Health Sciences, University of Illinois, Chicago, USA p. 359
- F. Novacek** Research Student, Faculty of Mathematics, University of Konstanz, Germany p. 285
- Dorian Pritchard** Lecturer in Human Genetics, University of Newcastle upon Tyne p. 375
- P. S. S. Rao** Director, Schieffelin Leprosy Research and Training Centre, Karigiri, India p. 325
- J. Richard** Professor and Head, Department of Biostatistics, Christian Medical College, Vellore, India p. 325
- J. Rodrigues** Associate Professor of Health Management, Universidade Federal da Paraíba, Brazil p. 339
- B. Schardl** Research Student, Department of Psychology, University of Konstanz, Germany p. 285
- M. Sivaram** Statistician, Department of Biostatistics, Christian Medical College, Vellore, India p. 325
- Paivi Topo** Sociologist, National Research and Development Centre for Welfare and Health, Helsinki p. 267
- J. Richard Udry** Carolina Population Center, University of North Carolina, Chapel Hill, NC, USA p. 359
- Duolao Wang** Doctoral Student, Department of Social Statistics, University of Southampton p. 277
- R. L. Waterhouse** Lecturer, Division of Sociology, Staffordshire University p. 372
- L. Westmarland** Research Student, Department of Sociology and Social Policy, University of Newcastle upon Tyne p. 371
- M. I. Zafar** Associate Professor, Department of Sociology, University of Agriculture, Faisalabad, Pakistan p. 301