

Volume 11, Number 2

April 1979

---

Journal of  
**Biosocial  
Science**

---

Published by The Galton Foundation

7 Downing Place, Cambridge, England

# JOURNAL OF BIOSOCIAL SCIENCE

The *Journal of Biosocial Science* is published by the Galton Foundation and distributed by the Biochemical Society Book Depot.

*All orders, payments and enquiries regarding distribution* should be addressed to:

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

For 1979 (Volume 11) there will be four issues, published in January, April, July and October.

The subscription rates for 1979 are: Annual subscription £17.50 (US \$37.50)  
Per part £4.50 (US \$10.00)

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.

*Concessionary rates for members of relevant Societies:* enquiries should be addressed to:

**The Executive Secretary,  
Journal of Biosocial Science,  
7 Downing Place,  
Cambridge CB2 3EL,  
UK**

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

**The Editor,  
Journal of Biosocial Science,  
7 Downing Place,  
Cambridge CB2 3EL,  
UK**

Second-class postage pending at New York, N.Y. 10022, U.S.A.

## Editor

D. F. Roberts

## Editorial Advisory Panel

Tess Adkins  
W. Brass  
D. R. Brothwell  
Robert Chester  
P. R. Cox  
Peter Diggory

E. Grebenik  
G. A. Harrison  
Hans Kalmus  
John Peel  
D. M. Potts

J. S. Price  
M. P. M. Richards  
E. T. O. Slater  
R. Snowden  
Barbara Thompson  
A. M. Thomson

## Consultant

Alan S. Parkes

## Notice to Contributors

The *Journal of Biosocial Science* publishes original papers, reviews, lectures, proceedings and major 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; 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* and *Biological Abstracts*.

**Manuscripts** should be sent in duplicate to the Editor, *Journal of Biosocial Science*, 7 Downing Place, Cambridge CB2 3EL. They should be clearly typewritten, on one side of the paper only, with a 1¼ 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** 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.

**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 (e.g. 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 section headed *Debate* is reserved for comments on papers appearing in previous issues. Authors whose papers are involved will be given an opportunity to reply at similar length for simultaneous publication. Discussion of any particular paper will not normally be continued beyond the first comment or comments and the author's reply. 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. Special attention should be given to the checking of tables, mathematical formulae and figures. Major alterations to the text will be accepted only at the author's expense. Overseas contributors are advised to arrange for a proof-reader in Great Britain. The date of receipt given at the end of the paper is that on which the script as published was received or agreed.

**Offprints.** 25 offprints together with 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. Additional offprints may be purchased if ordered on the form sent out with the proofs.

© Galton Foundation. 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 Galton Foundation and the author.

# JOURNAL OF BIOSOCIAL SCIENCE

Vol. 11, No. 2

April 1979

## Contributors

- Akbar Aghajanian** Post-doctoral Fellow, Department of Sociology, Duke University, Durham, North Carolina, USA p. 219
- C. Azimi-Garakani** Research Student, Department of Genetics, University College of Swansea p. 193
- P. M. Basson** Assistant Professor, Department of Humanities and Social Studies, Yarmouk University, Jordan p. 201
- J. A. Beardmore** Professor of Genetics, University College of Swansea p. 193
- W. Z. Billewicz** Statistician, MRC Reproduction and Growth Unit, Newcastle upon Tyne p. 141
- Dora Briggs** Lecturer in Educational Administration, School of Education, Flinders University, Adelaide, Australia p. 179
- D. Brothwell** Senior Lecturer, Institute of Archaeology, 31–34 Gordon Square, London p. 227
- Lak Bulusu** Statistician, Medical Statistics Division, Office of Population Censuses and Surveys, London p. 117
- Dallas Fernando** Senior Research Officer, Marga Institute, Colombo, Sri Lanka p. 133
- John Fox** Statistician, Medical Statistics Division, Office of Population Censuses and Surveys, London p. 117
- R. J. Gandy** Area Statistician, Leicestershire Area Health Authority (Teaching) and Honorary Research Associate, Department of Community Health, Leicester University p. 173
- Leo Kinlen** Part-time Medical Statistician, Medical Statistics Division, Office of Population Censuses and Surveys p. 117
- Herman Lehmann** Professor Emeritus, University of Cambridge p. 229
- G. E. O. Ogun** Lecturer in Statistics, University of Nigeria, Nsukka p. 209
- A. E. Okorafor** Senior Lecturer in Economics and Demography, University of Nigeria, Nsukka p. 209
- Ingrid Swenson** Assistant Professor, School of Nursing, University of North Carolina, Chapel Hill, NC, USA p. 153
- Christabel M. Young** Research Fellow, Department of Sociology, Faculty of Arts, Australian National University, Canberra p. 159
- Farhat Yusuf** Senior Lecturer in Demography, School of Economic and Financial Studies, Macquarie University, Sydney, Australia p. 179