

QUARTERLY REVIEWS OF BIOPHYSICS

CONTENTS

W. REICHARDT and T. POGGIO

Visual control of orientation behaviour in the fly

I. A quantitative analysis 311

II. Towards the underlying neural interactions 377

Recommendations for measurement and presentation of biochemical
equilibrium data. 439

News from IUPAB 457



CAMBRIDGE UNIVERSITY PRESS
Published for the International Union for
Pure and Applied Biophysics

COUNCIL OF IUPAB

- B. Chance (U.S.A.) *President*
S. Ebashi (Japan) *Vice-President*
P. G. Kostyuk (U.S.S.R.) *Vice-President*
F. Lynen (Fed. Rep. Germany) *Hon. Vice-President*
R. D. Keynes (United Kingdom) *Secretary-General*
- | | |
|---------------------------------|--------------------------------|
| J. Coursaget (France) | F. M. Richards (U.S.A.) |
| M. Errera (Belgium) | M. Sela (Israel) |
| A. R. Gopal-Ayengar (India) | J. Tigyí (Hungary) |
| O. Maaløe (Denmark) | H. T. Witt (Fed. Rep. Germany) |
| M. Montal (Mexico) | K. Wuthrich (Switzerland) |
| D. C. Phillips (United Kingdom) | |

Quarterly Reviews of Biophysics is the official organ of the International Union for Pure and Applied Biophysics (IUPAB). It is edited for the Council by: Professor Arne Engström, National Food Administration, Box 622, S-751 26 Uppsala, Sweden; Professor A. Ehrenberg, Department of Biophysics, Arrhenius Laboratory, Stockholm University, Fack S-104 05 Stockholm, Sweden; Professor R. D. Keynes, Physiological Laboratory, Cambridge CB2 3EG, England; Dr G. Felsenfeld, NIAMD Building 2, Room 301, National Institutes of Health, Bethesda, Maryland 20014, U.S.A.

© Cambridge University Press 1976

Permissions. For permission to reproduce material from *Quarterly Reviews of Biophysics*, please apply to the London or New York office of Cambridge University Press.

ISI Tear Service, 325 Chestnut Street, Philadelphia, Pennsylvania 19106, U.S.A. is authorized to supply single copies of separate articles for private use only.

Subscriptions. *Quarterly Reviews of Biophysics* is published quarterly. A complete volume may be purchased at the subscription price (which includes postage) if payment is made before publication of the volume is complete. The subscription price of Volume 9, 1976 is £23.00 net (US \$64.50 in U.S.A. and Canada). Single parts cost £7.00 net (US \$19.50 in U.S.A. and Canada) plus postage. Members of bodies affiliated to the IUPAB may subscribe at the reduced rate of £15.00 (U.S. \$42.00 in U.S.A. and Canada). Orders should be sent to a bookseller or to Cambridge University Press, Bentley House, 200 Euston Road, London NW1 2DB or, in the U.S.A. and Canada, to Cambridge University Press, 32 East 57th Street, New York, N.Y. 10022.

Second class postage paid at New York, N.Y.