Philosophical Transactions: series B publishes original papers in all aspects of the biological sciences, including clinical science. Papers up to 25 000 words long are welcomed, particularly those of an interdisciplinary or multidisciplinary nature. Longer papers and reviews are also invited; authors intending to submit these should consult with the Editor at an early stage in preparation. Papers will be published rapidly (normally within six months of receipt).

The March issue of the journal will include the papers listed below.

P.R. Manger & J.D. Pettigrew
Electroreception and the feeding behaviour of platypus (*Ornithorhynchus anatinus*: Monotremata: Mammalia)

V.D.C. Shields & B.K. Mitchell
Sinigrin as a feeding deterrent in two crucifer-feeding, polyphagous lepidopterous species and the effects of feeding stimulant mixtures on deterrence

V.D.C. Shields & B.K. Mitchell
Responses of maxillary styloconic receptors to stimulation by sinigrin, sucrose and inositol in two crucifer-feeding, polyphagous lepidopterous species

V.D.C. Shields & B.K. Mitchell
The effect of phagostimulant mixtures on deterrent receptor(s) in two crucifer-feeding lepidopterous species

P. Zioupos, J.D. Currey, M.S. Mirza & D.C. Barton
Microcracking around holes in bone: comparison of finite element analysis and optical effects

F.G. Barth, J.A.C. Humphrey, U. Wastl, J. Halbritter & W. Brittinger
Dynamics of arthropod filiform hairs III. Flow patterns related to air movement detection in a spider (*Cupiennius salei* KEYS.)

A.V.Z. Brower
Locomotor mimicry in butterflies? A critical review of the evidence

G.M. Hughes
The gills of *Latimeria chalumnae*: a study in relation to body size

The proceedings of the Royal Society's Discussion Meeting on *Protein folding*, held in October 1994, will be published in the April issue of the journal.
Future issues of the journal will include the papers listed below.

D.M. Burt & D.I. Perrett
Perception of age in adult Caucasian male faces: computer graphic manipulation of shape and colour information

Expression and activity of the newt Msx-1 gene in relation to limb regeneration

J.A.M. Borghans & R.J. De Boer
A minimal model for T-cell vaccination

When species collide: the origin and spread of an asexual gecko species

M.W. Shaw
Simulation of population expansion and spatial pattern when individual dispersal distributions do not decline exponentially with distance

P. Monaghan, M. Bolton & D.C. Houston
Egg production constraints and the evolution of avian clutch size

R.J. Hendry & J.M. McGlade
The role of memory in ecological systems

J.-G.J. Godin & S.A. Davis
Who dares, benefits: predator approach behaviour in the guppy (*Poecilia reticulata*) deters predator pursuit

J.G. Vernon
Low reproductive output of isolated, self-fertilizing snails: inbreeding depression or absence of social facilitation?

N. Thomas & R.A. Thornhill
A theory of tension fluctuations due to muscle cross-bridges

P.L. Hurd, C.-A. Wachtmeister & M. Enquist
Will sensory biases polarize intraspecific signals?

N.B. Metcalfe & B.C. Thomson
Fish recognize and prefer to shoal with poor competitors

T.G. Barraclough, P.H. Harvey & S. Nee
Sexual selection and taxonomic diversity in passerine birds

J. Michalski & R. Arditi
Food web structure at equilibrium and far from it: is it the same?

S.M. Whitney, D.C. Shaw & D. Yellowlees
Evidence that the dinoflagellate ribulose-1,5-bisphosphate carboxylase/oxygenase is related to the Form II large subunit of the photosynthetic purple non-sulphur bacteria

N. Colegrave, T.R. Birkhead & C.M. Lessells
Sperm precedence in zebra finches does not require special mechanisms of sperm competition

Evidence for a sex-segregated migration in the humpback whale (*Megaptera novaeangliae*)
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**M. Lehrer, G. A. Horridge, S. W. Zhang & R. Gadagkar**

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**D. T. J. Littlewood & A. B. Smith**

A combined morphological and molecular phylogeny for sea urchins (Echinoidea: Echinodermata)