

## TO APPEAR IN PHILOSOPHICAL TRANSACTIONS SERIES B

*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 proceedings of the Royal Society's Discussion Meeting on *New uses for new phylogenies*, held in December 1994, will be published in the July issue of the journal and will include the papers listed below.

M.J. Benton

Testing the time axis of phylogenies

A.B. Smith, D.T.J. Littlewood & G.A. Wray

Comparing patterns of evolution: larval and adult life-history stages and small subunit ribosomal RNA of post-Palaeozoic echinoids

R.R. Hudson & N.L. Kaplan

The coalescent process and background selection

S. Nee, E.C. Holmes & P.H. Harvey

Inferring population history from molecular phylogenies

E.C. Holmes, S. Nee, A. Rambaut, G.P. Garnett & P.H. Harvey

Revealing the history of infectious disease epidemics using phylogenetic trees

P.M. Sharp, D.L. Robertson & B.H. Hahn

Cross-species transmission and recombination of 'AIDS' viruses

N.H. Barton & I. Wilson

Genealogies and geography

R.S. Thorpe, A. Malhotra, H. Black, J.C. Daltry & W. Wüster

Relating geographic pattern to phylogenetic process

J.B. Losos

Community evolution in greater Antillean *Anolis* lizards: phylogenetic patterns and experimental tests

M.S. Hafner & R.D.M. Page

Molecular phylogenies and host-parasite cospeciation: gophers and lice as a model system

E.P. Martins

Phylogenies and comparative data: a microevolutionary perspective

W.M. Fitch

Uses for evolutionary trees

A. Meyer, P.A. Ritchie & K.-E. Witte

Predicting developmental processes from evolutionary patterns: a molecular phylogeny of the zebrafish (*Danio rerio*) and its relatives

C. Moritz

Uses of molecular phylogenies for conservation

Two issues of the journal will be published in August 1995. The first will be the proceedings of the Royal Society's Discussion Meeting on *Evolution of eukaryotic cellular processes*. A second issue will include papers on: evolutionary history of sauropod dinosaurs (P. Upchurch); oscillations and waves in *Dictyostelium discoideum* (Y. Tang & H.G. Othmer); proprioceptors controlling head position in squid (T. Preuss & B.U. Budelmann); abundance, range and body size of British birds (R.D. Gregory); and retinal oligodendrocytes (E.C.G.M. Hampson & S.R. Robinson).



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