



Scientific Medal Winners

- 2007** **Dr Simon Hay**
University of Oxford, for research on spatial and temporal aspects of mosquito-borne disease epidemiology to support the more rational implementation of disease control and intervention options.
- Dr Loeske Kruuk**
University of Edinburgh, for improving our understanding of the role of genes and environment in shaping the biological diversity and evolutionary dynamics.
- 2007** **Professor Tim Coulson**
Imperial College London, for his major contributions to the field of quantitative population biology and the application of demographic analyses to ecological and evolutionary questions.
- Professor Sunetra Gupta**
University of Oxford, for her research on strain structure among pathogens, and for contributions to our understanding of the evolution, maintenance and dynamics of parasite population diversity.
- 2006** **Dr Angus Buckling**
University of Oxford, for his research on the evolutionary ecology of pathogenic microbes and their hosts in order to better understand the causes and consequences of coevolution between bacteria and their parasitic viruses.
- Professor Matt Keeling**
University of Warwick, for his use of mathematical methodologies to analyse a wide range of topics in disease epidemiology and evolution, including childhood infections, Foot and Mouth Disease and host-pathogen evolutionary dynamics.
- Professor Stuart West**
University of Edinburgh, for his research on the evolution of social behaviour, such as cooperation and conflict within or between species, relatedness and the allocation of resources to male versus female reproduction.
- 2005** **Dr Daniel T. Haydon**
for utilising mathematical models to clarify our understanding of population biology and improving our understanding of spatial coupling and disease spread in wild and domesticated animal populations
- Professor Andy Purvis**
for his contribution to the fields of macroecology, conservation biology and phylogeny estimation, in particular providing us with the methodology needed to understand more about relatedness and its conservation applications.
- 2004** **Professor Ian Owens**
for his work applying cross-taxonomic comparative methods to help understand more clearly the selective forces and phylogenetic constraints that have shaped avian biology

Professor Ben Sheldon

in recognition of his use of bird models to explore the evolutionary biology of reproductive decision-making, the application of quantitative genetics to ecology, and the integration of life-history analysis with sexual selection

2003 Professor Mike Bruford

for his role in developing and exploiting emerging molecular genetic techniques to reveal the structure of natural populations, and for applying his results to conservation biology

Dr Edward Holmes

in recognition of his analyses of gene sequences data and phylogenetic analysis to reveal the evolution and population dynamics of disease-causing viruses

2002 Per Erik Ahlberg

in recognition of his work in palaeontology

Professor Laurence D. Hurst

in recognition of his work in the evolution and structure of genetic systems

2001 Dr Alan Cooper

in recognition of his work in phylogeography

2000 Dr Austin Burt

in recognition of his research in evolutionary biology

1999 Professor Russell Foster

in recognition of his research in vertebrate physiology

Dr Tim Guilford

in recognition for his research in animal behaviour

Professor Andrew Read

in recognition of his research in the evolutionary ecology of parasites

1998 Dr Nicholas Dale

in recognition of his research in electro-physiology.

Dr Chris Thomas

in recognition of his research in population ecology.

Dr Leigh W. Simmons

in recognition of his research in insect behavioural ecology.

1997 Dr Ian L Boyd

for contributions to our understanding of the ecology and physiology of marine mammals.

Dr Innes C Cuthill

for contributions to the study of bird behaviour and visual perception.

1996 Professor Peter WH Holland

for highly original contributions to our understanding of molecular evolution, with particular reference to duplicated gene families in Chordata.

Dr David G Reid

for his elegant studies of the taxonomy and phylogenetics of littorinid molluscs.

Dr William J Sutherland

for his pioneering theoretical and empirical research linking animal behaviour with population distributions, and for applying his work to our understanding of conservation issues.

1995 Dr Adrian VS Hill

for outstanding contribution to knowledge of the mechanisms of genetic susceptibility to parasitic infection, particular malaria.

Dr John R Speakman

for distinguished contribution to the study of animal energetics.

1994 Dr John D Altringham

for distinguished contribution to muscle physiology.

Dr BT Grenfell

for distinguished contribution to population demography and epidemiology in vertebrates.

Dr Anne E Magurran

for outstanding work on the maintenance of biological diversity and on the role of predation in the evolution of social behaviour.

1993 Dr HCJ Godfray

for contribution to population biology at the interfaces between ecology, evolution and behaviour.

1992 Dr Nick H Barton

for contribution to quantitative population genetics.

1991 Dr BJ Finlay

for research into the physiological ecology of protozoans and their bacterial symbionts.

Dr Anne E Keymer

for broad-ranging work on the ecology, immunology and evolutionary biology of parasites.

1990 Dr CP Ellington

for outstanding contribution to the mechanics and physiology of insect flight.

- 1989** **Dr JC Smith**
for work on early embryonic development.
- 1988** **Dr DJ Patterson**
for his broad contributions to protozoology, on particular to knowledge of evolution and systematics of the protozoa.
- Dr RM Sibly**
for his applications of optimality theory to the study of both animal behaviour and life-history
- 1987** **Dr NB Davies**
for work on the behavioural ecology of birds, amphibians and insects.
- 1986** **Dr GA Boxshall**
for elegant contributions to the systematics of the copepoda and other crustaceans.
- Dr PH Harvey**
for work in evolutionary biology, ranging from population genetics to evolution.
- Dr JMV Rayner**
for innovations in the study of the mechanics of animal flight.
- 1985** **Dr JP Brockes**
for work on development of the nervous system.
- Dr RC Tinsley**
for contribution to the systematics and biology of anuran amphibians and their parasites and the interactions between the two.
- 1984** **Dr JP Croxall**
for contributions to knowledge of the ecology, population dynamics and energetics of seabirds in relation to the trophodynamics of the marine ecosystem.
- Dr IA Johnston**
for research on the comparative physiology of teleost muscle.
- 1983** **Dr TH Clutton-Brock**
for research into behaviour and ecology of red deer on the island of Rhum.
- Professor JP Hearn**
for work on reproductive and developmental biology of New World primates.
- 1982** **Professor RM Anderson**
for work on parasite ecology.
- Dr PJ Butler**
for work on respiratory physiology.

Dr J Cooke
for work on amphibian development.

1981 Dr MP Hassell
for his work on population ecology, in particular on arthropod predator-prey systems.

Dr JR Krebs
for his work on the behavioural ecology of birds.

1980 Dr JM Elliott
for his work on the ecology of benthic steam invertebrates and fishes.

1979 Dr M Burrows
for his work on the anatomy and physiology of insect nervous system.

1978 Dr GA Lincoln
for his work on the influence of environment on reproductive performance in birds and mammals.

1977 Dr DWT Crompton
for his work on the acanthocephala and on other parasitic worms in relation to the ecology and physiology of the host environment.

Dr RL Gardner
for his work on experimental mammalian embryology.

Dr PA Lawrence
for his work on developmental pathways in insect development.

1976 Dr PPG Bateson
for his work on ethology and on experimental and developmental psychology and neurology.

Dr BK Follet
for his work on seasonal breeding cycles in higher vertebrates, particularly on photoperiodism in birds.

1975 Dr WD Hamilton
for his work on evolutionary biology.

Dr SHP Maddrell
for his work on secretory mechanisms in insects.

1974 Dr PF Baker
for work on ionic transport across cell membranes.

Dr H Kruuk
for his work on the behaviour and ecology of gulls and carnivores

- 1973** **Professor HC Macgregor**
for his work on cell and molecular biology.
- Dr JN Brady**
for his work on ecology, physiology and pure and applied entomology.
- 1972** **Dr C Patterson**
for his work on fossil fishes in a wide field.
- Dr M Rudwick**
for his work on fossil branchiopods.
- 1971** **Professor DL Lee**
for his work on parasitology, in particular on helminths and protozoans.
- Dr PL Miller**
for his work in neurophysiology, in particular the nervous control of insect respiration.
- 1970** **Dr D Noble**
for his work on the physiology of nerve and muscle.
- Professor J Phillips**
for his work on comparative endocrinology.
- 1969** **Professor R Alexander**
for his work on the mechanical biophysics and morphology of fish.
- Dr RV Short**
for his work on the physiology of reproduction, particular in the field of chemical assay of sex hormones.
- Professor TRE Southwood**
for his work on the ecology of insects.
- 1968** **Dr GA Horridge**
for his work on the anatomy and physiology of nervous systems of invertebrates.
- DR Martin Wells**
for his work on brain and behaviour in cephalopods.
- 1967** **Dr JB Gurdon**
for his work on nuclear transplantation.
- Dr JE Treherne**
for his work on insect physiology.
- Professor L Wolpert**
for his work on cell biology and embryology.
- 1966** **Dr Anne McLaren**

for her work on the physiology of reproduction in mammals.

Dr J Miller

for his work on the physiology of the thymus gland.

Professor T Shaw

for his work on comparative physiology.

1965

Dr EH Ashton

for his work on primate anatomy.

Mr BB Boycott

for his work on cephalopod and vertebrate nervous systems.

Dr RM Laws

for his work on ecology and physiology of large mammals.

1964

Mr J Shaw

for his work in the general field of osmotic and ionic regulation.

1963

Dr Leslie Brent

for his work on the field of transplantation immunology.

Dr Janet Harker

for her work on the physiology of the sense of time and the basis of periodic activities in lower animals.

Dr PH Greenwood

for his work on the biology, taxonomy and palaeontology of fishes.

1962

Dr JWL Beament

for his work on the physical and chemical approaches to biological problems.

Dr NA Mitchison

for his work on immunology and tissue transplantation.

1961

Mr AJ Cain

for his work on taxonomy.

Mr RA Hinde

for his work on behaviour and territory of birds.