

ZSL Scientific Medal Winners

2015 **Heather Ferguson**, University of Glasgow, for outstanding contributions to infectious disease ecology

Kevin Foster, University of Oxford, for outstanding contributions to our understanding of evolution and genetics of social behaviour, and the theory of social behaviour and evolution

Virpi Lummaa, University of Sheffield, for outstanding contributions to evolutionary ecology and biology

2014 **Andy Gardner**, University of St Andrews, for outstanding contributions to our understanding of the evolution of animal behaviour

Patrik Nosil, University of Sheffield, for outstanding contributions to evolutionary genetics and speciation

Tommaso Pizarri, University of Oxford, for outstanding contributions to the evolutionary ecology of sexual behaviour

2013 **Iain Couzin**, Princeton University, for research on the collective behaviour and structural dynamics of animal groups

David Hosken, University of Exeter, for contributions to our understanding of sperm competition and evolution

Judith Mank, University College London, for research on evolutionary genetics, gene function and gene expression

2012 **Jane Reid**
University of Aberdeen, for contributions to evolutionary ecology and conservation biology

Jason Wolf
University of Bath, contributions to our understanding of the evolutionary genetics

2011 **Tom Little**
University of Edinburgh, for contributions to our understanding of the evolution of host–parasite interactions and the fitness effects of immune responses.

Jon Slate
University of Sheffield, for contributions to our understanding of the use of genetic markers and linkage mapping to study natural populations.

- 2010** **Edward Feil**
University of Bath, for the development of new analytical techniques that have led to new insights into bacterial molecular evolution and epidemiology
- Rebecca Kilner**
University of Cambridge, for outstanding contributions to behavioural ecology and the analysis of evolutionary processes
- Andrew Rambaut**
University of Edinburgh, for the development of influential computational approaches for the analysis of molecular evolution
- 2009** **Greg Hurst**
University of Liverpool, for research on the evolution, ecology and genetics of intracellular bacteria that target host development and reproduction.
- Oliver Pybus**
University of Oxford, for the development and use of formal techniques that compare gene sequence data from contemporary populations to establish population genetic and population history.
- 2008** **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.
- 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** **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.
- 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** **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.
- 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.

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 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

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 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

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 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

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

Laurence D. Hurst

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

2001 Alan Cooper

in recognition of his work in phylogeography

2000 Austin Burt

in recognition of his research in evolutionary biology

- 1999** **Russell Foster**
in recognition of his research in vertebrate physiology
- Tim Guilford**
in recognition for his research in animal behaviour
- Andrew Read**
in recognition of his research in the evolutionary ecology of parasites
- 1998** **Nicholas Dale**
in recognition of his research in electro-physiology.
- Chris Thomas**
in recognition of his research in population ecology.
- Leigh W. Simmons**
in recognition of his research in insect behavioural ecology.
- 1997** **Ian L Boyd**
for contributions to our understanding of the ecology and physiology of marine mammals.
- Innes C Cuthill**
for contributions to the study of bird behaviour and visual perception.
- 1996** **Peter WH Holland**
for highly original contributions to our understanding of molecular evolution, with particular reference to duplicated gene families in Chordata.
- David G Reid**
for his elegant studies of the taxonomy and phylogenetics of littorinid molluscs.
- 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** **Adrian VS Hill**
for outstanding contribution to knowledge of the mechanisms of genetic susceptibility to parasitic infection, particular malaria.
- John R Speakman**
for distinguished contribution to the study of animal energetics.
- 1994** **John D Altringham**
for distinguished contribution to muscle physiology.

BT Grenfell

for distinguished contribution to population demography and epidemiology in vertebrates.

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 H CJ Godfray

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

1992 Nick H Barton

for contribution to quantitative population genetics.

1991 B J Finlay

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

Anne E Keymer

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

1990 CP Ellington

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

1989 JC Smith

for work on early embryonic development.

1988 DJ Patterson

for his broad contributions to protozoology, on particular to knowledge of evolution and systematics of the protozoa.

RM Sibly

for his applications of optimality theory to the study of both animal behaviour and life-history

1987 NB Davies

for work on the behavioural ecology of birds, amphibians and insects.

1986 GA Boxshall

for elegant contributions to the systematics of the copepoda and other crustaceans.

PH Harvey

for work in evolutionary biology, ranging from population genetics to evolution.

JMV Rayner

for innovations in the study of the mechanics of animal flight.

1985 JP Brockes

for work on development of the nervous system.

RC Tinsley

for contribution to the systematics and biology of anuran amphibians and their parasites and the interactions between the two.

1984 JP Croxall

for contributions to knowledge of the ecology, population dynamics and energetics of seabirds in relation to the trophodynamics of the marine ecosystem.

IA Johnston

for research on the comparative physiology of teleost muscle.

1983 TH Clutton-Brock

for research into behaviour and ecology of red deer on the island of Rhum.

JP Hearn

for work on reproductive and developmental biology of New World primates.

1982 RM Anderson

for work on parasite ecology.

PJ Butler

for work on respiratory physiology.

J Cooke

for work on amphibian development.

1981 MP Hassell

for his work on population ecology, in particular on arthropod predator-prey systems.

JR Krebs

for his work on the behavioural ecology of birds.

1980 JM Elliott

for his work on the ecology of benthic stream invertebrates and fishes.

- 1979 M Burrows**
for his work on the anatomy and physiology of insect nervous system.
- 1978 GA Lincoln**
for his work on the influence of environment on reproductive performance in birds and mammals.
- 1977 DWT Crompton**
for his work on the acanthocephala and on other parasitic worms in relation to the ecology and physiology of the host environment.
- RL Gardner**
for his work on experimental mammalian embryology.
- PA Lawrence**
for his work on developmental pathways in insect development.
- 1976 PPG Bateson**
for his work on ethology and on experimental and developmental psychology and neurology.
- BK Follet**
for his work on seasonal breeding cycles in higher vertebrates, particularly on photoperiodism in birds.
- 1975 WD Hamilton**
for his work on evolutionary biology.
- SHP Maddrell**
for his work on secretory mechanisms in insects.
- 1974 PF Baker**
for work on ionic transport across cell membranes.
- H Kruuk**
for his work on the behaviour and ecology of gulls and carnivores
- 1973 HC Macgregor**
for his work on cell and molecular biology.
- JN Brady**
for his work on ecology, physiology and pure and applied entomology.

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

1966 Anne McLaren
for her work on the physiology of reproduction in mammals.

J Miller
for his work on the physiology of the thymus gland.

T Shaw
for his work on comparative physiology.

1965 EH Ashton
for his work on primate anatomy.

BB Boycott
for his work on cephalopod and vertebrate nervous systems.

RM Laws
for his work on ecology and physiology of large mammals.

1964 J Shaw
for his work in the general field of osmotic and ionic regulation.

1963 Leslie Brent
for his work on the field of transplantation immunology.

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

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

1962 JWL Beament
for his work on the physical and chemical approaches to biological problems.

NA Mitchison
for his work on immunology and tissue transplantation.

1961 AJ Cain
for his work on taxonomy.

RA Hinde
for his work on behaviour and territory of birds.