ZSL Scientific Medal Winners

2021   Maria Dornelas, University of St Andrews, for outstanding contributions to our understanding of quantifying biodiversity, community ecology and macroecology

Kayla King, University of Oxford, for outstanding contributions to our understanding of evolutionary ecology and host-parasite interactions

Elouise Leadbeater, Royal Holloway University London, for outstanding contributions to our understanding of social insects

2020   Dan Nussey, University of Edinburgh, for outstanding contributions to evolutionary ecology and senescence in wild animals

Emily Shepard, University of Swansea, for outstanding contributions to our understanding of movement ecology and bird flight

Chris Venditti, University of Reading, for outstanding contributions to evolutionary biology

2019   David Edwards, University of Sheffield, for outstanding contributions to tropical ecology

Emily Rayfield, University of Bristol, for outstanding contributions to palaeobiology

Martin Stevens, University of Exeter, for outstanding contributions to sensory ecology and evolution

2018   Rob Ewers, Imperial College London, for outstanding contributions to our understanding of patterns of forest cover and forest biodiversity from local to global scales

Katie Hampson, University of Glasgow, for outstanding contributions to our understanding of the ecology of infectious diseases, infection dynamics across spatial scales and the impacts of control efforts

Steve Simpson, University of Exeter, for outstanding contributions to marine biology, fish ecology, bioacoustics and the effects of climate change on marine ecosystems

2017   Anjali Goswami, Natural History Museum, for outstanding contributions to palaeobiology, biodiversity science and macroecology

Andrea Manica, University of Cambridge, for outstanding contributions to individual movement strategies, population genetics and spatial ecology
Richard Pearson, University College London, for outstanding contributions to the study of the impacts of climate change on biodiversity

2016 Ashleigh Griffin, University of Oxford, for outstanding contributions to behavioural and evolutionary ecology

Sarah Reece, University of Edinburgh, for outstanding contributions to ecological and evolutionary perspectives to the study of malaria parasites

Claire Spottiswoode, University of Cambridge, for outstanding contributions to behavioural ecology, and in particular, our understanding of parasitic and mutualistic interactions between species

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 phylogentics 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  HCJ 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  BJ 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.

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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 steam 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.