



ZSL Scientific Medal

Winners

- 2024** **Cristina Banks-Leite**, Imperial College London, for outstanding contributions to our understanding of biodiversity change in human-modified tropical landscapes
- Sally Keith**, Lancaster University, for outstanding contributions to the field of macrobehavior, and to our understanding of thermal tolerance of reef corals across latitudinal gradients
- Stephen Montgomery**, University of Bristol, for outstanding contributions to neurobiology, and links between behavioural evolution and neural architecture
- 2023** **Tim Newbold**, University College London, for outstanding contributions to our understanding of the global biodiversity impacts of climate change and land-use change
- Laura Ross**, University of Edinburgh, for outstanding contributions to our understanding of the evolution and evolutionary consequences of unusual reproductive strategies and inheritance in animals
- 2022** **Kathryn Elmer**, University of Glasgow, for outstanding contributions to our understanding of the genomic mechanisms underlying adaptive evolutionary change
- Stephanie King**, University of Bristol, for outstanding contributions to our understanding of communication in dolphins and the evolution of sociality and cognition
- Matthew Struebig**, University of Kent, for outstanding research on the impacts of land-use change on biodiversity in south-east Asia
- 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 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 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.

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.