

# Prof. Dr. Michael J. Berridge

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Name: Sir Michael John Berridge  
Date of Birth: October 22, 1938  
Place of Birth: Gatooma, Rhodesia  
Address: The Babraham Institute, Laboratory of Molecular Signalling, Babraham Hall, Babraham, Cambridge CB2 4AT, UK

## Education

1960 BSc, University College of Rhodesia and Nyasaland, Salisbury, Rhodesia, 1st Class honors  
1965 PhD, University of Cambridge (Supervisor: Sir Vincent B. Wigglesworth)

## Vocational Experience

1965-1966 Post-doctoral Fellow, University of Virginia (with Prof. D. Bodenstein)  
1966-1967 Post-doctoral Fellow, Case Western Reserve University (with Dr. M. Locke)  
1967-1969 Research Associate, Case Western Reserve University (with Dr. B. Schmidt-Nielsen)  
1969-1972 Senior Scientific Officer, Unit of Invertebrate Chemistry and Physiology (Director Dr. J. E. Treherne), Cambridge University  
1972-1978 Principal Scientific Officer, Unit of Invertebrate Chemistry and Physiology, Cambridge  
1978-1990 Senior Principal Scientific Officer, Unit of Insect Neurophysiology and Pharmacology, Cambridge  
since 1990 Deputy Chief Scientific Officer (Grade 4), Laboratory of Molecular Signalling, Babraham Institute  
1972-1986 Elected Title C Fellow, Trinity College, Cambridge  
since 1986 Elected Title B Fellow, Trinity College, Cambridge  
1984 Elected Fellow of the Royal Society  
since 1994 Honorary Professor of Cell Signalling, University of Cambridge  
1988 Honorary Fellowship - Gonville and Caius

## Awards and Grants

1984 Feldberg Prize  
1986 The King Faisal International Prize in Science  
- Louis Jeantet Prize in Medicine  
1987 William Bate Hardy Prize, Cambridge Philosophical Society  
- Abraham White Scientific Achievement Award, The George Washington University School of Medicine  
1988 Gairdner Foundation International Award  
1989 Albert Lasker Basic Medical Research Award  
- Baly Medal, Royal College of Physicians, London  
1990 Rita Levi Montalcini Award Lecture, Fidia Research Foundation, Washington, DC  
- Dale Medal, Society for Endocrinology  
1991 CIBA-GEIGY/DREW Award in Biomedical Research  
- Royal Medal, The Royal Society  
1993 Degree of Doctor Honoris Causa, Limburgs Universitair Centrum, Belgium  
1994 Dr. H. P. Heineken Prize for Biochemistry and Biophysics  
1995 The Wolf Foundation Prize in Medicine, Israel  
1996 The Massry Prize in Nephrology, Physiology and Related Fields, The Meira and Shaul G. Massry Foundation, USA  
1998 Knight Bachelor  
1999 Ernst Schering Prize, Ernst Schering Research Foundation, Berlin

## Membership of Societies

- Honorary Member, Japanese Biochemical Society  
- Society of General Physiologists  
1989 Academia Europaea  
1991 European Molecular Biology Organization (EMBO)  
1992 Honorary Member, American Physiological Society  
1994 Foreign Correspondent, Académie Royale de Médecine de Belgique  
1995 Honorary Life Member, Society for Experimental Biology  
1998 The Academy of Medical Sciences, London  
1999 Foreign Associate of the National Academy of Science, Washington, DC

## Editorial Work

1971-1985 Co-editor (with Sir Vincent Wigglesworth and Dr. J. E. Treherne), *Advances in Insect Physiology*  
1980-1981 Editorial Board, *Cell Calcium*  
1981-1984 Editorial Advisory Panel, *Molecular and Cellular Endocrinology*  
1987 Editorial Advisory Board, *Journal of Neuroendocrinology*  
1989 Editorial Board, *Molecular Biology of the Cell* (formerly *Cell regulation*)

1989-1992 Advisory Editorial Board, Cancer Cells  
 1990 International Advisory Board, Advances in Second Messenger and Phosphoprotein Research  
 1990 Editorial Board, Journal of Basic and Clinical Physiology and Pharmacology  
 1993 Editorial Board, Journal of Experimental Biology  
 1994 Advisory Editor to Bio Essays  
 1994-1996 Editorial Board, Japan Society for Cell Biology's official journal, Cell Structure and Function

### Major Research Interest

The main area of research interest concerns the mode of action of hormones and neurotransmitters at the cellular level. The problem is to understand how cells detect external signals and translate them into the intracellular signals (cyclic nucleotides and calcium) responsible for triggering a change in cellular activity. Current interest centers around the role of inositol lipids in the action of calcium-mobilizing hormones. Studies are concentrated on the way in which agonists act to stimulate the hydrolysis of these lipids to release both diacylglycerol and inositol trisphosphate (IP<sub>3</sub>). Attention is being focused on the role of IP<sub>3</sub> in controlling the spatiotemporal aspects of calcium signalling with particular emphasis on the neural processes of membrane excitability, learning and memory.

### Award Lectures

1984 Annual Bayer AG Lecture in Pharmacology, Yale University School of Medicine  
 1985 Halliburton Lecture, Kings College, London  
 - Harrison Lecture, Endocrine Society of Australia  
 1986 Nelson Medical Lecture, University of California, Davis  
 1987 Welcome Visiting Professor, The University of Texas Medical School  
 - The N I H Lecture  
 - ICI Prize Lecture, University of Manchester  
 - The Baule Distinguished Lecture in Neurosciences, Syracuse  
 - The Alice and Joseph Brooks International Lecture in Neurosciences, Harvard Medical School  
 1988 16th FEBS Ferdinand Springer Lecture  
 - Royal Society Croonian Lecture  
 - 18th Annual Schueler Distinguished Lecture in Pharmacology, Tulane University  
 - Smith Kline and French Lecture, University of London  
 - 2nd Hillarp Lecture, European Neurosciences Association, Zurich  
 - Ralph Dorman Lecture, Stanford University School of Medicine  
 - Steinhouse Memorial Lecture, University of California, Irvine  
 - Robert E. Olsen Lecture, St. Louis University School of Medicine  
 - Hillarp Memorial Lecture, Bioscience 88, Malmo, Sweden  
 1989 Harold Lampton Lecture, University of Washington, Seattle  
 - Flexner Lecture, Vanderbilt University, Nashville  
 - Chilton Lecture, University of Texas, Dallas  
 - Boxer Lecture, University of Medicine and Dentistry of New Jersey  
 - Samuel Rudin Visiting Professorship, Columbia University  
 1990 Dame Honor B. Fell Lecture, Cardiff  
 - Charnock Bradley Memorial Lecture, University of Edinburgh  
 - John R. Murlin Lecture, University of Rochester  
 - College of Medicine Distinguished Lecturer, University of Iowa  
 - Leslie L. Bennett Lecture, University of California, San Francisco  
 - The Inaugural Albert L. Lehninger Lecture, The Johns Hopkins University, Baltimore  
 - Frank Rose Memorial Lecture, British Association for Cancer Research  
 - Falk Memorial Lecture, NIEHS, Research Triangle Park  
 - The ICI Guest Lecture, Medical Research Society, UK  
 1992 The 19th Annual Calbiochem Lectureship in Chemistry, University of California, San Diego  
 - The Poulsson Lecture, University of Oslo  
 1993 The Donald W. Seldin Lecture, The 12th International Congress of Nephrology, Jerusalem  
 1994 The 14th Dr. Abraham White Memorial Lecture, Syntex, Palo Alto, California  
 - Storer Life Sciences Lecture, University of California, Davis  
 1995 Bidder Lecture, The Society for Experimental Biology  
 - Hugh Davson Distinguished Lectureship, The American Physiological Society  
 1996 Applebaum Distinguished Lecturer, The University of Florida, Gainesville  
 - Annual Review Prize Lecture, The Physiological Society  
 - Dr. Aaron I. Grollman Visiting Lectureship in Basic Medical Sciences, University of Maryland, Baltimore  
 1997 6th Choh Hao Li Memorial Lecturer, University of California, Berkeley  
 1999 Edwin G. Krebs Lecture in Molecular Pharmacology, University of Washington School of Medicine, Seattle  
 - First Fred Fay Lecture, University of Massachusetts Medical School, Department of Physiology