

**CURRICULUM VITAE**  
**G. BURNSTOCK, PhD, DSc, FAA, FRCS (Hon), FRCP (Hon), FMedSci, FRS**

DATE OF BIRTH: 10th May 1929

PLACE OF BIRTH: London, England

PRESENT CITIZENSHIP: Australian

MARITAL STATUS: Married with three daughters

DEGREES:

BSc (Special) King's College, University of London (Prof. Danielli)	1953
PhD King's College and University College London, University of London (Supervisors: Prof. J.Z. Young and Dr. Peggy Brown)	1957
MSc (Honorary) Melbourne University	1962
DSc Melbourne University	1971
MRCP (Hon) London	1987
FRCS (Hon) England	1999
FRCP (Hon) London	2000

APPOINTMENTS:

National Institute for Medical Research, Mill Hill, London (with Dr. W. Feldberg)	1956-1957
Department of Pharmacology, Oxford University (with Dr. E. Bülbring)	1957-1959
Department of Physiology, University of Illinois (with Dr. C.L. Prosser)	
Rockefeller Travelling Fellowship	1959
University of Melbourne, Australia	
Senior Lecturer, Department of Zoology	1959
Reader in Physiological Zoology	1962
Professor of Zoology and Chairman of Department	1964-1975
Associate Dean (Biological Sciences)	1969-1972
Visiting Professor, Department of Pharmacology, University of California, Los Angeles	1970
Department of Anatomy and Developmental Biology, University College London:	
Head of Department	1975-1997
Professor of Anatomy	1975-2004
Vice-Dean (Faculty of Medical Sciences) UCL	1980-1983
Convener, Centre for Neuroscience, UCL	1979-
Director, Autonomic Neuroscience Institute, Royal Free & University College Medical School	1997-2004
President, Autonomic Neuroscience Centre, Royal Free & University College Medical School	2004-
Emeritus Professor, Department of Anatomy & Developmental Biology, University College London	2004-

## OTHER APPOINTMENTS

	Contract Professor (University of Siena)	1985-1987
	Visiting Professor, Royal Society of Medicine Foundation, New York	1988
	Chairman of Scientific Advisory Board, Eisai London Ltd.	1990-
1997	Professor Emeritus, Department of Pharmacology, University of Melbourne	1993-
	Contract Professor (University of Milan)	1993-1994
	Non-Executive Director, Royal National Orthopaedic Hospital	1996-2002
	Chairman, Board of Clinical Studies, Royal National Orthopaedic Hospital	1996-2002

## HONOURS

	Royal Society of Victoria Silver Medal	1970
	Fellow of the Australian Academy of Science (FAA)	1971
	Fellow of the Royal Society (FRS)	1986
	Honorary Member of the Royal College of Physicians (MRCP)	1987
	Special Award presented at the NIH Conference, Bethesda, Maryland, September 18, 1989, "For the Concept of Purinergic Transmission"	1989
	Member of Academia Europaea	1992
	Foreign Member of the Russian Society of Neuropathology	1993
	President, International Neurovegetative Society	1995-1998
	President, International Society for Autonomic Neuroscience	1995-2000
	Fellow of University College London	1995
	President (Medicine), British Association	1998
	Honorary Member of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists	1997
	Honorary Member of the Anatomical Society of Great Britain and Ireland	1998
	Founder Fellow, Academy Medical Sciences	1998
	Honorary Fellow of the Royal College of Surgeons of England (FRCS)	1999
	Honorary Fellow of the Royal College of Physicians (FRCP)	2000
	Janssen Award for 'Lifetime Achievement in Digestive Sciences' San Diego	2000
	Royal Society Royal Medal	2000
	Doctor Honoris Causa, University of Antwerp, Belgium	2002
	Correspondant Academicien of the Real Academia Nacional de Farmacia, Spain	2003
	Honorary Member of the Physiological Society	2003
	Honorary Fellow of the British Pharmacological Society	2004
	Honorary Professorial Research Fellow, Mental Health Research Institute of Victoria, Australia	2006
	Honorary Membership of the Hungarian Society of Experimental and Clinical Pharmacology	2006
	Doctor Honoris Causa J. W. Goethe-Universität (Frankfurt)	2007
	Honorary Member of the Australian Physiological Society	2008
	Copernicus Gold Medal, Ferrara	2009
	The British Neuroscience Association. Annual Award for 'Outstanding Contribution to British Neuroscience'	2009

SEE APPENDIX A FOR:

- Administrative Activities
- Editorial Appointments
- Membership of Societies
- Membership of National or International Societies
- Special Named or Invited Lectures
- Lectures at International Symposia
- Supervision of Postgraduate Students
- Collaborative Research Projects with Clinicians
- Links with Pharmaceutical Industry



## APPENDIX A

### ADMINISTRATIVE ACTIVITIES

(other than Research Group and Department)

#### University College London

##### Council

Graduate School: Steering Committee

Chairman, Graduate School Funding in Life and Clinical Sciences, 1992-1994

Academic Development and Research Sub-Committee, 1996-

Planning & Resources Committee, 1993-1994

Resource Centre Model Committee, 1992-1994

Equipment Fund Committee (Chairman), 1982-1994

Bridging Funds Committee, 1994-1997

Academic Board

Faculties of Life Sciences and Clinical Sciences

Heads of Department Committee (Faculty of Life Sciences)

Biological Research Advisory Group (BRAG)

Chairman Scientific Board Eisai London Ltd., 1990-1997

College Collections Committee, 1993-1994

Chair Committees

Convener, Centre for Neuroscience 1979 - 1999

#### Other

Council of Royal Postgraduate Medical School (RPMS)

Committee of Management, Institute of Ophthalmology

British Heart Foundation Fellowships Committee

Consultant for BIOREX (Hungary)

Consultant for SERVIER (France)

Member of Council and a Director Anatomical Society of Great Britain and Ireland

Member of Council and a Director Bayliss & Starling Society

University of London Boards of Studies: Anatomy/Pharmacology/Biology

External Adviser for Chairs of Anatomy

Scientific Panel for organising various International Meetings

Non-Executive Director, Royal National Orthopaedic Hospital, 1996-2002

Chairman, Board of Clinical Studies, Royal National Orthopaedic Hospital, 1996-2002

## **EDITORIAL APPOINTMENTS**

Editorial Advisory Board - GENERAL PHARMACOLOGY (formerly Comparative and General Pharmacology)	1969-1998
International Editorial Council - RENDICONTI ROMANI DI GASTROENTEROLOGIA (Title changed to ITALIAN JOURNAL OF GASTROENTEROLOGY in 1975)	1970-
Advisory Committee (Board of Standards) of the AUSTRALIAN JOURNAL OF BIOLOGICAL SCIENCES	1972-1975
Editorial Board of THE INDIAN JOURNAL OF ZOOLOGY	1972-
Advisory Editorial Board of CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY	1973-1986
Editorial Board of BLOOD VESSELS, International Journal of Blood and Lymphatic Vessels	1973-1991
Editorial Board of REVIEWS OF NEUROSCIENCES	1974-
Editorial Board of JOURNAL OF PHYSIOLOGY	1975-1982
Editorial Board of JOURNAL OF THEORETICAL BIOLOGY	1975-1991
Editorial Board of BRAIN RESEARCH BULLETIN	1975-1989
Editorial Board of JOURNAL OF CARDIOVASCULAR PHARMACOLOGY	1977-1981
Editorial Board of EUROPEAN JOURNAL OF PHARMACOLOGY	1979-1984
Editorial Board of JOURNAL OF THE AUTONOMIC NERVOUS SYSTEM	1979-1985
Advisory Board of DEVELOPMENTAL NEUROSCIENCE	1980-1982
Advisory Board of ACTA ZOOLOGICA	1981-1987
Editorial Board of ANATOMY AND EMBRYOLOGY	1982-1987
Editorial Board of INTERNATIONAL JOURNAL OF DEVELOPMENTAL NEUROSCIENCE	1983-1989
Editorial Board of HISTOLOGY AND HISTOPATHOLOGY	1984-1996
*Editor-in-Chief of AUTONOMIC NEUROSCIENCE: BASIC AND CLINICAL (formerly Journal of the Autonomic Nervous System)	1985-
Editorial Board of FUNCTIONAL NEUROLOGY	1985-2002
Editorial Advisory Board of ISI ATLAS OF SCIENCE: PHARMACOLOGY	1985-
Editorial Board of BRITISH JOURNAL OF PHARMACOLOGY	1986-1992
Editorial Board of EUROPEAN JOURNAL OF NEUROSCIENCE	1987-1996
Editorial Board of ARCHIVES INTERNATIONALES DE PHARMACODYNAMIE ET DE THERAPIE	1988-
Scientific Advisory Panel of CURRENT CARDIOVASCULAR PATENTS	1988-2000
Editorial Board of INTERNATIONAL JOURNAL OF PURINE AND PYRIMIDINE RESEARCH	1989-1992
Corresponding Editor for NIGERIAN JOURNAL OF PHYSIOLOGICAL SCIENCES	1989-1992
Editorial Board of BIOMEDICAL RESEARCH	1989-
International Advisory Board of NEUROREPORT	1990-2004
Editorial Board of CLINICAL AUTONOMIC RESEARCH	1990-
Board of Consultants of EUROPEAN JOURNAL OF PHARMACOLOGY	1991-1997
Editorial Board of JOURNAL OF ANATOMY	1991-2006
Editorial Board of JOURNAL OF THE HISTORY OF THE NEUROSCIENCES	1991-
Editorial Board of JOURNAL OF VASCULAR RESEARCH (formerly Blood Vessels)	1991-1998
Editorial Advisory Board of SEMINARS IN THE NEUROSCIENCES	1992-1998
Editorial Board of ENDOTHELIUM	1992-
Editorial Board of ANGIOLOGY, The Journal of Vascular Diseases	1992-
Advisory Editor of LIFE SCIENCES, Section on Cardiovascular and Autonomic Mechanisms	1992-2006
Senior Advisory Board of INTERNATIONAL JOURNAL OF DIABETES	1993-
Editorial Board of INTERNATIONAL JOURNAL OF DEVELOPMENTAL NEUROSCIENCE	1993-1997
Editorial Advisory Board of CURRENT TOPICS IN PHARMACOLOGY	1994-
Editorial Advisory Board of RECENT RESEARCH DEVELOPMENTS IN PHARMACOLOGY	1994-
Editorial Advisor for PHARMACEUTICAL SCIENCES	1994-
Editorial Board of JOURNAL OF SMOOTH MUSCLE RESEARCH	1996-
Field Editor (Autonomic Pharmacology) of FUNDAMENTAL & CLINICAL PHARMACOLOGY	1997-
International Advisory Board of ANNALS OF MICROSCOPY	1998-
Editorial Board of CELL, TISSUES AND ORGANS	1999-2009
Editorial Board of CURRENT OPINION IN PHARMACOLOGY	2000-
Editorial Board of NEWS OF BIOMEDICAL SCIENCES	2001-
*Editor-in-Chief of PURINERGIC SIGNALLING	2004-
Member of Management Committee of INTERNATIONAL JOURNAL OF PHARMACOLOGY	2004-
Editorial Advisory Board of the CENTRAL EUROPEAN JOURNAL OF MEDICINE	2006-

Editorial Board of the OPEN PHARMACOLOGY JOURNAL	2007-
Editorial Board of the OPEN PATHOLOGY JOURNAL	2007-
Editorial Board of the OPEN NEUROSCIENCE JOURNAL	2007-
Editorial Advisory Board of CURRENT NEUROPHARMACOLOGY	2008-
*Editor-in-Chief of The OPEN PHARMACOLOGY JOURNAL (Bentham Open)	2008-
*Editor-in-Chief of The OPEN NEUROSCIENCE JOURNAL (Bentham Open)	2008-
Editorial Board of The OPEN BIOACTIVE COMPOUNDS JOURNAL (Bentham Open)	2008-
Editorial Board of The WORLD JOURNAL OF GASTROENTEROLOGY	2009-
Editorial Board of The WORLD JOURNAL OF GASTROINTESTINAL PATHOPHYSIOLOGY	2009-
Editorial Advisory Board of CNS & NEUROLOGICAL DISORDERS-DRUG TARGETS	2009-
Editorial Board of The WORLD JOURNAL OF CARDIOLOGY	2009-
Editorial Board of Wiley Interdisciplinary Reviews (WIREs)	2009-

## MEMBERSHIP OF SOCIETIES

Royal Society of Medicine (England) 1980	1966-
British Physiological Society	1965-
Australian Anatomical Society	1970-1976
Australian Physiological and Pharmacological Society	1965-
Australian & New Zealand Association for the Advancement of Science	1965-1975
International (formerly European) Society for Biochemical Pharmacology	1965-
Australian Society of Clinical and Experimental Pharmacology	1967-1976
Australian Society of Reproductive Biology	1967-1975
International Catecholamine Club	1960-1970
Cell Biology Society	1970-1975
Australian Neurosciences Association	1972-1980
Fellow of the Zoological Society, London	1975-1980
Australian Society for Medical Research	1965-1975
British Pharmacological Society	1975-
Society for Experimental Biology	1976-1981
British Anatomical Society	1978-1997
European Artery Club	1979-
Royal Institution of Great Britain	1975-1980
International Brain Research Organisation (IBRO)	1980-
International Society for Developmental Neuroscience	1980-
International Society for Cerebral Blood Flow and Metabolism	1981-1985
European Neuroscience Association	1976-
Serotonin Club	1985-1989
Clinical Autonomic Research Society	1986-
European Neuropeptide Club	1990-
Society of Neurogastroenterology	1991-
Honorary Member of The Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists (ASCEP)	1997-
Honorary Member of The Anatomical Society of Great Britain and Ireland	1998-
International Pelvic Pain Society	2000-
International Federation of Purine Clubs	2000-
Honorary member of the British Physiological Society	2003-
Honorary member of the British Pharmacological Society	2004-

## MEMBERSHIP OF NATIONAL OR INTERNATIONAL COMMITTEES

National Medical and Scientific Advisory Committee of the National Heart Foundation of Australia	1966-1973
Medical and Scientific Committee of the Anti-Cancer Council of Victoria	1965-1975
Board of Research of the Royal Children's Hospital Research Foundation, Victoria	1968-1975
Great Barrier Reef Committee	1969-
International Union of Physiological Sciences (IUPS) Commission on 'Neuro-Transmission' (Chairman: Prof. U.S. von Euler)	1970-1980
Nuffield Foundation, Australian Advisory Committee (Occasional Member)	
Faculty of the Victoria College of Pharmacy	1970-
Standing Committee for Scientific Research Policy of the Australian Academy of Science	1971-1974
Cell Biology Society, President	1971-1972
Council of the Royal Society of Victoria	1972-1975
Committee of the Australian-American Educational Foundation	1972-1975
The Queen's Fellowship Committee	1974-1975
Westernport Bay Environmental Study Review Committee	1974-1976
IUPS Commission on 'Muscle' (Chairman: Prof. F.H.M. Mommaerts)	1975-1978
Howard Florey Institute of Experimental Physiology and Medicine, Melbourne	1975-
British Pharmacological Society Committee	1976-1980
Medical Research Council Grants Committee (UK)	1976-1979
Jury of the Fondation Francqui, Belgique	1978
National Committee on 'Biology and Pathology of Arterial Walls', France (Delegation Général a la Recherche Scientifique et Technique - DGRST	1978-1980
Organising Committee for the Formation of a European Society for Research on the Autonomic Nervous System	1979-1982
British Pharmacological Society Representative on the British National Committee for Physiological Sciences	1982-1987
IUPS Commission on 'Transmitters & Modulators' (Chairman: Prof. K. Krnjevic)	1981-1988
IUPS Commission on the 'Autonomic Nervous System' (Chairman: Prof. A. Trzebski)	1981-1988
Governing Council, University College London	1981-1987
Founding Member of International Council for Scientific Development and International Academy of Science (ICSID)	1983-1990
Council of the European Neuroscience Association (ENA)	1984-1988
Chairman of the Scientific and Engineering Research Council (SERC) Invertebrate Initiative Panel	1986-1988
Council of 'The Bayliss and Starling Society'	1986-1992
'Physiological Systems and Disorders' Board of the MRC	1988-1993
International Council for Neurovegetative Research	1989-1995
Council of Royal Postgraduate Medical School (RPMS)	1989-1997
Vice President, Anatomical Society of Great Britain and Ireland	1990-1991
Member of the Institute for Molecular Cell Biology (MRC)	1991-1998
Member of the Committee of Management and a Director of the Institute of Ophthalmology, British Postgraduate Medical Federation	1991-1994
Member of Council and a Director of the Anatomical Society of Great Britain & Ireland	1992-1995
Advisory Board First SONA International Meeting of Neuroscience (IBRO), Nairobi	1993
Non-Executive Director, Royal National Orthopaedic Hospital	1996-2002
Chairman, Board of Clinical Studies, Royal National Orthopaedic Hospital	1996-2002
Member of the Royal Society Leverhulme Trust Senior Research Fellowship Selection Committee	1999-2005
International Scientific Advisory Committee, 'Purine 2004', Chapel Hill	2003-2004
International Scientific Advisory Committee, 'Purine 2006', Ferrara	2004-2006



### SPECIAL NAMED OR INVITED LECTURES

The Brailsford Robertson Memorial Lecture, Adelaide	1971
The Australian Physiology and Pharmacology Society Invited Lecture, Adelaide	1973
The West Memorial Lecture, University College, Cardiff	1976
The Otto Krayler Lecture, Harvard University	1976
The Slovak Academy of Sciences Invited Lecture, Bratislava	1976
The South African Physiology and Pharmacology Societies' Invited Lecture, Durban	1976
Inaugural Lecture, Chair of Anatomy, Department of Anatomy and Embryology, University College London	1977
The Guest Lecturer for the First Biomedical Research Forum, University of Michigan	1978
The Synthelabo Lecture, Paris	1979
The British Physiological Society 'Review Lecture', Birmingham	1979
The Cumings Memorial Lecture, The Migraine Trust Third International Symposium, London	1980
The Hypertension Artérielle et Système Nerveux Inserm Lecture, Paris	1980
The Plenary Lecture, The Norwegian Physiological Society, Myrdal	1981
The 1981 Guest Lecture in Series "The Mechanisms of Drug Action", Ann Arbor	1981
The American Gastroenterological Association Memorial Lecture, New York	1981
The Schueler Distinguished Lecture in Pharmacology, Tulane University, New Orleans	1982
The Invited Lecture, Dutch Society for Gastroenterology, Veldhoven	1982
Visiting Professor and Guest Speaker of the First Surgical Clinic University of Athens	1982
The Guest Lecture, British Association for Rheumatology and Rehabilitation, UCH, London	1983
The Invited Lecture, Hungarian Academy of Science, Budapest	1983
The Third Anatomical Society of Great Britain and Ireland Review Lecture, "The Autonomic Nervous System: Current Developments and Future Directions", Cardiff	1983
The Invited Lecture 'Autonomic Neuroeffector Mechanisms: New Links with Disease' Kantonsspital, Basel	1984
The First Ulf von Euler Lecture in Physiology, Stockholm	1985
Lecture Series on 'Autonomic Neuroeffector Systems in Development and Disease', 'Contract Professor' University of Siena	1985
The CIBA-GEIGY Guest Lecture, Medical Research Society, London	1985
The Guest Lecture, Bayliss & Starling Society, 'Peptidergic Control of the Vascular System', London	1985
The First John T. Shepherd Lecture, 'Mechanisms of Vasodilatation', Mayo Clinic, Rochester	1986
The Harold Lamport Lecture in Physiology, Seattle	1986
The Biomedical Lecture, Liverpool	1987
The Sadashiv M. Kirpekar Memorial Lecture, New York	1987
The Invited Lecture, International Medical Society of Paraplegia, Stoke Mandeville	1987
The Plenary Lecture, Xth International Congress of Pharmacology, Sydney	1987
The Oliver-Sharpey Lecture, Royal College of Physicians, London	1987
The Review Lecture, Clinical Autonomic Research Society, London	1987
The Ariëns Lecture, 'Purinergic Receptors', Utrecht	1987
Keynote Lecture, IBRO Neuroscience Workshop for Young Scientists, Nairobi	1988
Plenary Lecture, British Pharmaceutical Society Conference, Aberdeen	1988
ICI/Physiological Sciences Prize Lecture, Manchester	1988
Special Guest Lecture, Joint Meeting of Canadian Pain Society and American Pain Society, Toronto	1988
Distinguished Guest Lecture, Royal Postgraduate Medical School, London	1988
Plenary Lecture, 'Autonomic Neuroeffector Mechanisms, Recent Developments', Japanese Pharmacological Society, Kyoto	1989

The Heymans Memorial Lecture, Gent	1990
Review Lecture, Societa Italiana di Fisiologia, 'Autonomic Nervous System: the 30 Years after Sir Henry Dale', Florence	1990
State of the Art Lecture, 13th Scientific Meeting of the International Society of Hypertension, Montreal	1990
The Du Pont Lecture, 'Update on Autonomic Transmitters: their Possible Implications in Pain', Oxford	1990
The Rheumatology Lecture, Bloomsbury	1991
Plenary Lecture, 'Determinants of Signal Transmission in Healthy and Diseased Autonomic Neuromuscular Junctions'. Satellite Symposium of 14th International Diabetes Federation Congress, New York	1991
The Preclinical Guest Lecture, Cardiff	1992
Opening Lecture 'Physiological and Pathological Roles of Purines: An Update', in Purines '92: Pharmacology and Clinical Applications, Milan	1992
Basic Research Lecture 'Fundamental Aspects of GI Motility' at the First United European Gastroenterology Week, Athens	1992
Guest Lecture 'Purinergic Mechanisms in Local Local Control of the Vasculature', Association Française des Pharmacologistes, Montpellier	1992
Knight Visiting Professor Lecture, The Miami Project to Cure Paralysis, Miami	1993
Keynote Lecture, Medical Research Forum 'Endothelial control of vascular tone; interactions with neural mechanisms', UCL and RFHMS, London	1994
Invited Lecture 'Purinergic Mechanisms: Therapeutic Potential', GLAXO Institute of Molecular Biology, Geneva	1994
The Charnock Bradley Lecture. 'Autonomic Neuroeffector Transmission: 30 years since Sir Henry Dale', Royal (Dick) School of Veterinary Studies, University of Edinburgh, Edinburgh	1994
The C. Ladd Prosser Lecture, University of Illinois, Urbana, USA	1995
Invited Lecture: 'Adrenergic Systems, 100 Years after the Discovery of Adrenaline', Polish Academy of Sciences, Cracow	1995
Chairman of Ciba Foundation Symposium: 'P2 Purinoceptors: Localisation Function and Transduction Mechanisms', London	1995
The Plenary Lecture, Clinical Autonomic Research Society entitled "Autonomic Neurotransmission: 50 years since Sir Henry Dale", London	1995
The Opening Plenary Lecture at 1st Asia-Pacific Anatomical Conference (entitled "Autonomic Neurotransmission")	1995
The Overseas Lecture. Australian Neuroscience Society 'Purinergic Receptors', Adelaide 1996	
Plenary Lecture, American Society for Pharmacology and Experimental Therapeutics (ASCAP) 'Purinergic signalling: historical overview and current developments', San Diego	1997
Plenary Lecture, 1st European Opioid Conference. 'Purinergic signalling including interactions with peptides', Guildford	1997
The Keynote Lecture, International Symposium on 'Plasticity and Gene Expression in the Sympathetic Nervous System', Heidelberg	1997
The Invited Lecture, 39th Annual Meeting of the Japanese Society of Smooth Muscle Research, 'Purinergic Signalling', Osaka	1997
Presidential Address (as President of the Medical Sciences Section of the British Association) "Bridging the gaps between basic science, clinical medicine and the pharmaceutical industry", Cardiff	1998

The First Bengt Falck Lecture, Lund	1998
The Magnes Memorial Lecture, Israel Society for Physiology and Pharmacology “Local Mechanisms Controlling Vascular Tone”, Ma’ale Hachanisha	1998
The Medical Science Review Lecture, Sheffield	1998
The J.Z. Young Lecture, “Autonomic Neurotransmission: 50 Years since Sir Henry Dale”, Oxford	1999
The Distinguished Guest Lecture “Autonomic Neurotransmission in Health and Disease”, Royal College of Surgeons of Ireland, Dublin	1999
The G.W. Harris Prize Lecture (The Physiological Society, UK) “Purinerbic Signalling”, London	1999
The Professor M. Rocha e Silva Award Lecture, Brazilian Society of Pharmacology and Experimental Therapeutics Annual Meeting, Caxambu, Brazil	1999
The Distinguished Lecture in Pharmacology, “Autonomic Neurotransmission Including Purinerbic Signalling”, Northwestern University Medical School, Chicago	1999
The Louis D’Agrosa Lecture, Purinerbic Signalling, School of Medicine, St. Louis University, St. Louis	1999
The Neuroscience Society Lecture, Göteborg	2000
Public Lecture (Sponsored by the Royal Society of Victoria and Monash University), “The expanding field of purinerbic signalling”, Melbourne	2000
Purines 2000, Opening Lecture, Madrid	2000
Horace Davenport Distinguished Lecturer 2001, American Physiological Society, Orlando, USA	2001
Ludwig Robert Müller Memorial Lecture. ‘Neurotransmitters of the Gut’. The Third European Federation of Autonomic Societies (EFAS) Meeting, Erlangen, Germany	2001
The Sherrington Lecture. ‘Purinerbic Signalling’, Liverpool	2001
Dahlemer Cell Biology Colloquium Lecture, Berlin	2001
Special Lecture ‘Roles of ATP in the nervous system’ at The Third International Symposium on the Study of Brain Function, Fukuoka, Japan	2002
Plenary Speaker, ‘Purinerbic Signalling’, XIVth World Congress of Pharmacology (IUPHAR) San Francisco, USA	2002
Plenary Speaker, ‘Vascular Neuroeffector Mechanisms: The Next 30 Years’, 10 <sup>th</sup> International Symposium on Vascular Neuroeffector Mechanisms, Lake Tahoe, California, USA	2002
Neuroscience Distinguished Lecturer, Toronto, Canada	2003
The Stevenson Memorial Lecture, London, Ontario, Canada	2003
The Winsbury White Lecture, Royal Society of Medicine, London, UK	2004
The First Annual Burnstock Lecture, University of North Carolina, USA	2004
Inaugural Lecture upon Election to the Real Academia Nacional de Farmacia, Spain, Madrid	2004
Plenary Lecture, ‘Purinerbic mechanosensory transduction and visceral pain’, 4 <sup>th</sup> Congress of International Society for Autonomic Neuroscience (ISAN), Marseille	2005
The Rand Medal Lecture, Australian Society for Clinical and Experimental Pharmacologists and Toxicologists (ASCEPT), Melbourne, Australia	2005
The A Lo Yuk Tong Foundation Lecture, University of Hong Kong	2006
Public Lecture, University of Brunei Darussalam	2006
The Plenary Lecture entitled ‘Purinerbic signalling: past, present and future’, 8 <sup>th</sup> Int. Symp. on Adenosine and Adenine Nucleotides, Ferrara	2006
Lecture given at the Hungarian Academy of Science upon award of Honorary Membership of the Hungarian Society of Experimental and Clinical Pharmacology, Budapest	2006



## LECTURES AT INTERNATIONAL CONFERENCES

Second International Pharmacology Meeting, Prague	1964
Second Catecholamine Symposium, Milan	1965
XXIII Int. Congress of Physiological Sciences, Tokyo	1965
Catecholamines in Cardiovascular Physiology and Diseases, Canberra	1967
XXIV Int. Congress of Physiological Sciences, Washington	1968
Conference on 'Pulmonary Circulation', Chicago	1968
Symposium on 'Clinical Application of Smooth Muscle Electromyography', Honolulu	1968
First Int. Symposium of Cell Biology and Cytopharmacology, Venice	1969
IVth Int. Congress of Pharmacology, Basel	1969
Physiology and Pharmacology of Vascular Neuroeffector Systems, Interlaken	1969
Int. Conference on Hypertensive Mechanisms, Canberra	1970
Int. Symposium on the Histochemistry of Nervous Transmission, Helsinki	1970
Int. Paediatric Surgical Congress, Melbourne	1970
VIIth Congress International de Microscopie Electronique, Grenoble	1970
XXIV Int. Congress of Physiological Sciences, Munich	1971
Third Lepetit Colloquium 'Cell Interactions', London	1971
Royal Society Discussion Meeting 'Recent Developments in Vertebrate Smooth Muscle Physiology', London - Chairman	1972
IVth International Congress of Histochemistry and Cytochemistry, Kyoto	1972
'Dynamics of Degeneration and Growth in Neurons', Stockholm	1973
IIIrd Int. Catecholamine Symposium, Strasbourg	1973
Conference on the Myocardium, Canberra	1973
Gordon Research Conference, 'Smooth Muscle', Plymouth, USA	1973
Workshop on Arterial Smooth Muscle, Heidelberg	1973
VIIIth Int. Congress on Electronmicroscopy, Canberra	1974
IUPS Satellite Symposium, 'Physiological and Pharmacological Control of Blood Pressure', Melbourne	1974
'New Directions in Comparative Physiology and Biochemistry', Tucson	1974
'Comparative Pharmacology of Synaptic Receptors', Leningrad	1975
'Colloque International: Pharmacologie et Physiologie des Muscle Lisses', Paris	1975
'Chemical Tools Catecholamine Research', Göteborg	1975
VIth Int. Congress of Pharmacology. Symposium on 'Novel Transmitter Substances'	1975
IInd Int. Symposium on 'Vascular Neuroeffector Mechanisms', Odense	1975
Satellite Symposium (Int. Society of Neurochemistry) on 'New First and Second Messengers in Nervous Tissues', Brescia	1975
ICN-UCLA Symposium on 'Molecular and Cellular Biology', Squaw Valley, California	1976
SES Symposium on 'The Synapse', St. Andrews, Scotland	1976
Workshop on 'Intercellular Junctions and Synapses in Development', Cambridge	1976
The American Physiological Society Symposium on 'Excitable Junctions in Smooth Muscle Cells', FASEB, Anaheim	1976
CIBA Foundation Symposium on 'Purine and Pyrimidine Metabolism', London	1976
Gordon Conference (Member of Organizing Committee) on 'Rhythmic Activity in Muscle', USA	1976
Bulgarian Academy of Sciences International Meeting on 'Physiology and Pharmacology of Smooth Muscle', Varna	1976
26th Annual Symposium on the 'Biology of Skin', Gleneden Beach, Oregon	1976
Table Ronde Roussel UCLAF Meeting on 'Nerve Growth Factors', Paris	1976
Physiological and Pharmacological Society of South Africa, Int. Guest Lecture, Durban	1976
Belgian Society for Physiology and Pharmacology, Meeting on 'Autonomic Innervation of the Blood Vessel Wall', Antwerp	1977
Brain Research Association Meeting on 'The Neuron as a Secretory Cell', Bath	1977
Roche Research Foundation, Symposium on 'Dimensions in Health Research, Basel	1977

International Conference on Biological Membranes: 'Drugs, Hormones and Membranes', Switzerland	1977
International Symposium on 'Neurogenic Control of Brain Circulation', Stockholm	1977
Conference on 'Excitation-Contraction Coupling in Smooth Muscle', Leuven	1977
Satellite Symposium of XXVII <sup>e</sup> International Congress of Physiological Sciences on 'Mechanisms of Vasodilatation', Antwerp	1977
European Molecular Biology Organisation: Invitation Lecture in Laboratory Course on Brain Cells <i>in vitro</i>	1977
Vth Int. Meeting of the International Society for Neurochemistry on 'Nucleotides and Neurotransmission', Copenhagen	1977
IVth European Congress of Anatomy on 'Peripheral Neuroendocrine Interaction', Basel	1977
University of Uppsala 500th Jubilee Symposium on 'Form-shaping Movements in Neurogenesis', Uppsala, Sweden	1977
Symposium on 'Perspectives in Therapeutical use of Naturally Occurring Substances in the Organism' organised by the Fondazione International Menarini, Stockholm 1977	
International Workshop on 'Pharmacological Methods in Pre-clinical Safety: Evaluation of New Drugs', Zurich	1977
Migraine Trust Research Workshop, London	1977
Japan-U.S. Cooperative Science Symposium on 'Integrative Function of the Autonomic Nervous System', New York	1978
Biochemical Society Colloquium, Bath	1978
International Symposium on the Cholinergic Synapse, Czechoslovak Physiological Society and Institute of Physiology of Czech Academy of Sciences, Western Bohemia	1978
Symposium on 'Physiological and Regulatory Functions of Adenosine and Adenine Nucleotides', Banff, Canada	1978
IIIrd Meeting on Adrenergic Mechanisms, Porto	1978
VIIth International Congress of Pharmacology, Paris 1978	
Symposium on Vascular Neuroeffector Mechanisms, Leuven	1978
Workshop on 'Neuronal Secretion in Physiological and Pathological States', Antwerp	1978
IVth International Catecholamine Symposium, California	1978
Study Week on Neurobiology, Pontifica Academia Scientiarum, Rome	1978
Kroc Foundation Workshop on 'Mechanisms of Intestinal Secretion', California	1978
Research Forum on 'Biology of Nucleosides and Clinical Applications', Ann Arbor	1978
Kroc Foundation, Conference on 'Peptide Hormones of the Brain and Gut', California	1978
Neurosciences Research Program Workshop on 'Peripheral Nervous System - Neurotransmitters, Co-transmitters & Neuromodulators, Boston	1978
National Heart Foundation Symposium on 'Cardiovascular Receptors', Australia	1979
Conference on 'Blood Constituents and the Vessel Wall', Cambridge	1979
Conference on 'Neuroactive Compounds and their Cell Receptors', Israel Institute for Biological Research, Oholo, Israel	1979
IInd Int. Symposium on 'Hormonal Receptors in Digestive Tract Physiology', Montpellier	1979
Symposium on 'Calcium and Smooth Muscle', Gröningen	1979
Meeting on 'The Gut as a Target for Drug Research', London	1979
Int. Society for Development of Neuroscience, Symposium on Development of Specific Synaptic Connections in Culture, Strasbourg	1980
IInd Symposium on 'Mechanisms of Vasodilatation', Antwerp	1980
IIIrd International Symposium on 'Gastrointestinal Hormones', Cambridge	1980
British Society for Gastroenterology, Symposium on 'Nerves and the Gut', Reading	1980
Symposium on 'Development of the Autonomic Nervous System' Ciba, London (Chairman of the Meeting)	1980
Meeting of the Australian Neuroscience Society, Adelaide	1981
Brain Research Association Symposium on 'Neurotransmission, New Substances: New Concepts', Birmingham	1981

International School of Medical Sciences, Erci Meeting on 'Gastro-Intestinal Motility', Sicily	1981
Fogarty Conference on Cytochemical Methods in Neuroanatomy, N.I.H., Bethesda	1981
Co-organiser of EMBO Course on 'Culture of Neural Cells', London	1981
Conference on The Lung in Health & Disease, Society for Drug Research, London	1981
Symposium on 'Purine Derivatives in Neurotransmission', 8th Int. Society for Neurochemistry, Nottingham	1981
Janssen Foundation Symposium on 'Hypoxia in the Pathogenesis of Migraine Attacks', Sussex	1981
Symposium on 'Functional Disorders of the Digestive Tract', University of Rochester, NY	1981
Symposium in honour of Prof. Edith Bülbring and Prof. Gustav Born, Leuven, Belgium	1982
18th Advanced Medicine Conference, Royal College of Physicians, London	1982
Satellite Symposium (to the First World Congress of the International Brain Research Organisation) on 'The Autonomic Nervous System', Kiel, W. Germany	1982
Meeting of the Royal Microscopical Society, London	1982
Symposium Medicum Hoechst on 'Systemic Role of Regulatory Peptides', Oosterbeek, Holland	1982
International Symposium on 'Adenosine', Charlottesville, USA	1982
Joint Meeting of British and Scandinavian Pharmacological Societies, Symposium on 'Purines and the Nervous System', Stockholm, Sweden	1982
The Biochemical Society 600th Neurochemical Group Colloquium on Dale's Principle and Communication between Neurones', Oxford	1982
XVII Scandinavian Congress for Physiology and Pharmacology, Reykjavik, Iceland	1982
Symposium on 'Biology and Pathology of the Vessel Wall - A modern Appraisal'. Royal College of Pathologists Meeting, London	1982
Symposium Purinerge; Meeting of the French Association of Pharmacologists, Montpellier	1982
Neuro-Uro Pharmacology Update, Institute of Urology, London	1983
2nd Bodensee Symposium on Microcirculation, Konstanz, W. Germany	1983
Peripheral Nerve Study Group, Fontevraud, France	1983
29th Congress of the International Union of Physiological Sciences, Sydney, Australia	1983
Workshop No. 1 Series on Precapillary Vessels, Mainz, W. Germany	1983
Symposium on Subtypes of Muscarinic Receptors, Boston, USA	1983
XIXth International Congress of Neurovegetative Research, Berlin, W. Germany	1984
6th European Workshop on Inflammation, London	1984
Concluding Workshop on Precapillary Vessels, Mainz, W. Germany	1984
9th Lofland Conference on Arterial Wall Metabolism, San Antonio, USA	1984
Meeting on Neurotransmitter Diversity and its Functional Significance, Royal Society of Medicine, London	1984
26th Annual Meeting of the Japanese Society of Smooth Muscle, Okayama, Japan, Special Invited Lecture	1984
Satellite Symposium (to IUPHAR 9th International Congress on Pharmacology) Workshop on $\alpha$ -Adrenoceptors, Loch Lomond, Scotland	1984
Satellite Symposium (to IUPHAR 9th International Congress on Pharmacology) on Drug Aspects of Gastrointestinal Motility, Secretion and Absorption, Cambridge.	1984
Satellite Symposium (to IUPHAR 9th International Congress on Pharmacology) on Purines: Pharmacological and Physiological Roles, London.	1984
Regional Meeting of the International Union of Physiological Sciences, Jerusalem	1984
International Workshop on Pharmacology of the Vessel Wall, Valencia, Spain	1984
International Congress on Migraine Versus Transient Cerebral Ischaemia, Rome, Italy	1984
International Workshop on Adenosine and Xanthine Derivatives, Wiesbaden, FRG	1984
Second "Irvine Page" Workshop on Serotonergic Mechanisms in the Cardiovascular System, Stockholm	1984
International Workshop on Microcirculation, Kuwait	1985
First International Symposium 'Electrical Stimulation and Neuromuscular Diseases', Mainz	1985

Pfizer Workshop 'Role of the Sympathetic Nervous System in the Lower Urinary Tract', London	1985
Brain Research Association Meeting, Southampton	1985
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Symposium in Federation of American Society for Experimental Biology on 'Ganglionic Control of Autonomic Effector Systems', Anaheim, USA	1985
Systeme Nerveux Sympathique et Douleur, Strasbourg	1985
Symposium on Receptors in the Cardiovascular System, organised by the Dutch Pharmacological Society, Oss	1985
Eric K. Fernström Symposium, 'Neural Regulation of Brain Circulation' (Honorary Member), Lund	1985
A Marcus Wallenberg Symposium on 'Coexistence of Neural Messengers: A New Principle in Chemical Transmission', Saltsjöbaden, Stockholm	1985
Symposia on the 'Peripheral Nervous System' and on 'Smooth Muscle'. XII International Congress of Anatomy, London	1985
Workshop on 'Non-adrenergic, non-cholinergic innervation in the gastrointestinal and respiratory tracts', Ghent	1985
British Heart Foundation Workshop on 'Peptides and the Cardiovascular System', London	1985
Smith, Kline & French Workshop on 'Purinergetic Neuroeffector Systems', Welwyn Garden City	1985
Janssen Serotonin Pharmacology Workshop, Gleneagles, Scotland	1985
Conference on 'Neural Regulation of the Airways in Health and Disease', Cancun, Mexico	1986
British Heart Foundation Workshop on 'Receptors in the Heart', London	1986
The 1986 FESN Study Group on 'Transduction of Neuronal Signals, Geneva	1986
Springfield Blood Vessel Symposium 'Neurohumoral Control of Blood Vessels' (Che Su Memorial Meeting), Springfield, Illinois	1986
NIH Conference on 'The Scientific Basis of Sexual Dysfunction', Baltimore	1986
Third International Symposium on 'Adenosine', Munich	1986
3rd European Symposium on 'Gastrointestinal Motility', Bruges	1986
4th International Symposium on 'Mechanisms of Vasodilatation' (Satellite Meeting of XXX IUPS Meeting), Rochester	1986
Symposium of 'Neurotransmission and Neuromodulation' Satellite Meeting of International Society of Hypertension, Heidelberg	1986
IXth International Symposium on Medicinal Chemistry. Invited Main Lecture on 'Therapeutic Aspects of Purinoceptors', Berlin	1986
International Colloquium on Nervous Transmission - Histochemistry and Cell Biology of Autonomic Neurones and Paraganglia, Heidelberg	1986
Neuronal Messengers on Vascular Function (Eric K. Fernström Symposium), Lund	1986
The Third Fernand Nedee Conference on 'Trophic Factors and the Cardiovascular System' (Organiser and Chairman) Priorij Corsendonk, Belgium	1986
The Autonomic Nervous System in Health and Disease, Leeds Castle	1986
International Meeting on 'Advanced Technology in Scientific Research - Audiovisual Language in Scientific Communication', Florence	1986
Pharmacology of Asthma Course, London	1986
Transatlantic Airways Conference on 'Airway Neuropeptides', Boca Raton, USA	1987
British Physiological Society Symposium on 'Arterial Physiology', London	1987
British Heart Foundation Workshop on 'Mechanism of Coronary Vasomotion', London	1987
2a Riunione del gruppo di studio sal Sistema Nervoso Vegetativo (Societa Italiana di Neurologia), Taormina, Sicily	1987
European and American Cardiology Meeting on 'Basic Mechanisms of Cardiovascular Diseases, Implications for Prevention and Therapy', London	1987
The Folkow Symposium, 'Circulatory Regulation - Physiology and Pathophysiology', Fiskebäckskil, Sweden	1987
The Sixth International Symposium of Vascular Neuroeffector Mechanisms, Melbourne	1987
International Symposium on Mechanisms and Management and Hypertension (Satellite	



Symposium of IUPHAR Meeting), Melbourne	1987
Satellite Symposium of 42° Congresso Nazionale Società Italiana di Anatomia, 'Autonomic Neuroeffector Systems', Siena	1987

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British Heart Foundation Workshop on 'Mice and Men: The Relevance of Animal Experiments in the Study of Cardiovascular Disease' (Organiser and Chairman), London	1987
Meeting on 'Peptides: A Target for New Drug Development', London	1987
Update on Gastrointestinal Neuroendocrinology, London	1987
Pharmacology of Asthma Course, Cardiothoracic Institute, London	1987
International Workshop on Endothelium and Vasomotor Control, Chepstow	1987
Discussion Meeting: The Role of Adenosine in Pain Perception and Neuroregulation of the Cardiovascular System, Pisa	1987
British Heart Foundation Symposium on Peptides, London	1988
Workshop on 'Adenosine in Heart and Lung Disease', Cardiothoracic Institute, London	1988
6th National Meeting of Brain Research Association, London	1988
Blood-Brain Barrier Club Symposium on "Non-endothelial aspects of the blood-brain barrier", Institute of Psychiatry, London	1988
In Vitro Receptor Autoradiography Course, RPMS, London	1988
International Symposium on Coronary Vasomotor Tone, Cologne	1988
European and American Cardiology Course, RPMS, London	1988
Cardiovascular Workshop (Bayer), Burgenstock, Switzerland	1988
1st International Congress on 'Aging and Pathology of the Autonomic Nervous System', Rome	1988
FASEB Summer Research Conference, 'Endothelin and Cardiovascular Functions', Copper Mountain, Colorado	1988
Gordon Research Conference on 'Vascular Cell Biology', Kimball Union Academy, New Hampshire, USA	1988
VIIIth International Symposium on Morphological Sciences, Rome	1988
24èmes Rencontres Internationales de Chimie Thérapeutique (Plenary Lecture), Strasbourg	1988
International Congress of Gastroenterology and Digestive Endoscopy, Rome	1988
11th Annual Meeting, European Neuroscience Association, Zürich	1988
Annual Meeting, The Bayliss and Starling Society on 'The Peptidergic Basis of Autonomic Control', Cambridge	1988
Satellite Meeting of 8th International Symposium on Atherosclerosis entitled 'Biology of the Arterial Wall', Siena	1988
Symposium in Honour of Professor R.A. Gregory entitled 'Pitfalls and Progress in Gastrointestinal Physiology', Liverpool	1988
International Study Group on 'Autonomic Neuropathies', Geneva	1988
First William Harvey Workshop on 'Endothelin', London	1988
IBC Conference on 'Atrial Peptides and Their Novel Analogues - A Rational Approach to Cardiovascular Diseases?' (Chairman), London	1989
Symposium to celebrate the 60th Birthday of Prof. G. Burnstock entitled 'The Peripheral Nervous System', Melbourne	1989
British Heart Foundation Symposium on 'Receptors', London	1989
XIVth International Symposium on 'Cerebral Blood Flow and Metabolism', Bologna	1989
1° Congresso della Società Italiana Ricerca Neurovegetativa (SIRNV), Montecatini Terme	1989
Satellite Symposium of International Society for Neurochemistry on 'Adenosine Receptors in the Nervous System', Albufeira, Portugal	1989
XXXI International Congress of Physiological Services (IUPS), Coorganiser and Chairman of a Symposium on 'Physiological Significance of Multiple Transmitters in Cardiovascular Control by Autonomic Nerves', Helsinki	1989
2° Congresso Internazionale Cardiologia on 'Cardiology Today and Tomorrow', Milan	1989
12th Annual Meeting of European Neuroscience Association (ENA) Coorganiser and Chairman of a Symposium on 'Structural and Chemical Coding of the Enteric	

Nervous System', Turin	1989
'Purine Nucleosides and Nucleotides in Cell Signalling: Target for New Drugs', Bethesda (The Plenary Lecture)	1989
International Conference (IBC) on 'Adenosine and ATP Receptors' (Chairman), London	1989

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International Symposium on 'Molecular Basis of Neurological Disorders and their Treatment', Fasano	1989
Anglo-Swedish Cardiovascular Meeting, 'Basic Science in Clinical Practice', St Andrews	1989
CIBA Foundation of Symposium on 'Neurobiology of Incontinence' London	1989
'Update in Cardiopulmonary Research', National Heart and Lung Institute, London 1989	
'Pathophysiology of Gut and Airways', Physiological Society Symposium, London 1989	
British Heart Foundation Symposium on 'Cardiovascular Reflex Control', London	1989
Instituto Scientifico Roussel Colloquia on Aging, 'Vascular Aging and Thrombosis: Focus on Fibrinolysis', Rome	1989
'Biological Actions of Extracellular ATP', sponsored by The New York Academy of Sciences, Philadelphia	1989
British Heart Foundation Workshop on 'Fetal Cardiology'	1989
Anniversary Meeting of the American Society for Clinical Pharmacology and Therapeutics. Symposium on 'Clinical Pharmacology of Adenosine', San Francisco	1990
Brain Research Association Workshop on 'The Autonomic Nervous System: An Outmoded Concept?', Bristol	1990
'Plasticity and Regeneration of the Nervous System', (A Symposium Honoring Professor Guido Filogamo), Torino	1990
British Microcirculation Society Meeting on 'Control of Vascular Tone and Permeability by Endothelial Cells', London	1990
Physiological Society Symposium on 'Humoral Factors and Vascular Control', Nottingham	1990
4th International Symposium on Adenosine and Adenine Nucleotides, Lake Yamanaka and Satellite Symposium on 'Regulation of Coronary Blood Flow', Kobe	1990
NATO Advanced Workshop on 'Quantitative Evaluation of Extent and Severity of Atherosclerosis', Siena	1990
Satellite Symposium of the 13th ISH Meeting on 'Sympathetic Modulation of the Cardiovascular System, Montreal	1990
International Symposium on 'Pharmacology of Purinergic Receptors' (IUPHAR Satellite Meeting), Noordwijk	1990
Joint Meeting of the Anatomical Society of Great Britain and Ireland and the Dutch Association of Anatomists, Symposium on 'Changing Views of the Autonomic Nervous System', Maastricht	1990
The Autonomic Nervous System 1991. Structure, Function and Development (In Memory of Edith Bülbring)	1990
Gastrointestinal Transit - Pathophysiology and Pharmacology, Weybridge	1990
Second International Investigators' Meeting - CISAPRIDE, Nice	1990
First Italian 'Purine Club' Meeting, Milan	1991
Gangliosides: the Pharmacology of Neuronal Plasticity. Fidia Research Foundation, Rome	1991
Historical Aspects of Neurosciences. Wellcome Symposium for the History of Medicine, London	1991
PANG - London Chronic Pain Symposium, London	1991
Workshop. Progress in Physiology, Pharmacology and Functional Investigation in the Field of Vascular Pathology, Venice	1991
Skin Pharmacology Society Meeting, Pitlochry	1991
New Developments in Physiology of the Pelvic Floor, Rectum and Colon, London 1991	
British Pharmacological Society Symposium, 'Neurotransmission' (in Honour of	

John Gillespie), Glasgow	1991
12th BSG/SB International Workshop, 'Gastrointestinal Motility', Ware, UK	1991
Meeting on 'The Control of Vascular Tone', London	1991
Meeting on 'Nitric Oxide', London	1991
Symposium on 'Myocyte and Smooth Muscle Contractility', London	1991
One day Workshop on 'Mechanisms of Vascular Injury in Renal Disease', London	1991
Society for Drug Research Meeting on 'Therapeutic Opportunities for Purinergic Transmission' (Joint Convener), Oxford	1992
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23rd Annual Meeting of the American Society for Neurochemistry. Joint Symposium with the European Society for Neurochemistry on 'Progress in Purinergic Transmission', Houston	1992
IIR Conference on 'Update on Gastroenterology', London	1992
American Heart Association Satellite Meeting on 'Functional and Structural Mechanisms of Vascular Control', Snowbird, Utah	1992
10th Meeting of the European Blood Pressure Group, Cambridge	1992
Presidents International Symposium on 'Growth Factors in Gastroenterology' at 15th Settimana Italiana delle Malattie Digestive, Bologna	1992
Synapses and Receptors: A Molecular Perspective. A Festschrift in Honour of Professor Eric A. Barnard, Cambridge	1992
Gastrointestinal Barrier. Symposium of the Sonderforschungsbereiche 280, Hannover	1992
Advanced Course in Plastic Surgery, London	1992
MRC Workshop on 'Research Opportunities in Incontinence', London	1992
Royal Society UK/Japan Science and Technology Conference, London	1992
Symposium on 'Control of Vascular Tone', American Society of Anesthesiologists Annual Meeting, New Orleans	1992
International Motility Workshop, St. Mark's Hospital, London	1993
IUPHAR Subcommittee on 'Purinoceptors', London	1993
XXI International Congress of Neurovegetative Research 'Neural regulation of visceral functions', Bologna, Italy	1993
International Fundacion Ramon Areces Meeting, 'Transmission Nerviosa Purinergica', Madrid, Spain	1993
Constipation and Related Disorders, JANSSEN Meeting, Southampton	1993
Minisymposium: Pharmacology of Lower Urinary Tract: Basic and Clinical Aspects Copenhagen, Denmark	1993
Conference on 'Contemporary Aspects of Vascular Biology', Royal College of Physicians, London	1993
XXXII IUPS Congress of Physiological Sciences. Symposium: Autonomic Neuroeffector Mechanisms, Glasgow	1993
Symposium on 'Autonomic Neuroeffector Mechanisms', Oxford	1993
British Association Science for Life Festival, Keele	1993
XVth World Congress of Neurology - Symposium on Autonomic Disorders, Vancouver	1993
8th Meeting on Adrenergic Mechanisms, Porto	1993
Meeting of the Association of British Neurologists and Sociedad Española de Neurologia, London	1993
Society for Experimental Biology Meeting. Symposium 'New developments in neuronal signalling', Swansea	1994
Commemorative Symposium. 'Lock and Key - A Hundred Years After', Zurich	1994
5th International Symposium on Adenosine and Adenine Nucleotides: From Molecular Biology to Integrative Physiology, Philadelphia	1994
Advanced Paediatric Neurology 1994. Invited presentation entitled 'Neural transplants', London	1994
XIIth International Congress of Pharmacology (IUPHAR): Molecular Mechanisms to Modern Medicine' Symposium: 'Role of the L-arginine-NO-cyclic GMP pathway in NANC neurotransmission', Montreal	1994
10th European Society for Neurochemistry (ESN) Meeting. Colloquium: 'Purinoceptors',	

Chairman and Speaker, Jerusalem	1994
17th Annual Meeting of the European Neuroscience Association (ENA) Symposium 'Neuronal ATP receptors and their mechanism of action', Chairman and Speaker, Vienna	1994
Satellite Conference: Contrast Ultrasound - A Clinical Update. Eurodop '94 3rd Ultrasound Angiography Conference. Guest Lecture 'Neovascularization and blood flow control', Oxford	1994
Eisai Seminars in Neuroscience: Approaches to Neurodegenerative Disease. Chairman and Speaker, London	1994
Grand Round: Raynaud's Phenomenon (Lancet), London	1994
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International Symposium: 'Molecular Mechanisms of Neuronal Communication' (A tribute to Nils-Åke Hillarp), Stockholm	1995
ASPET Colloquium: 'Structure and Function of P <sub>2</sub> -purinoceptors', Satellite Meeting of experimental Biology '95 (Plenary Lecture), Atlanta, Georgia, USA	1995
Special Meeting: 'Reflections on Neuromuscular Interactions' (A tribute to Gerta Vrbová	1995
XIII Helsinki University Course in Drug Research (Plenary Lecture), Helsinki	1995
First European Congress of Pharmacology Symposium: Purinoceptors (Chairman and Opening Lecture), Milan	1995
P2-Purinoceptors: Localisation, Function and Transduction Mechanisms. Open Meeting UCL, (Chairman and Speaker) London	1995
'Synaptic Transmission: Past, Present and Future'. A British Pharmacological Society Symposium in honour of Professor W.C. Bowman, Glasgow	1995
Neuroscience for Clinicians 5. MRC Cambridge Centre for Brain Repair (Invited Lecture)	1995
Fourth Conference of the Institute of Developmental Neuroscience and Aging, 'Recent Advances in Neurobiology: Plasticity and Regeneration' (Plenary Lecture) St. Vincent (Aosta), Italy	1995
Conjoint Meeting of VI International Symposium of the Autonomic Nervous System and XXII International Congress of Neurovegetative Research (Plenary Lecture), Phoenix, Arizona	1995
25th Annual Meeting Society for Neuroscience, San Diego, California	1995
11th Symposium on Biotechnology, 'Genes and the Brain' (Chairman of Session). London	1995
First Asia -Pacific Anatomical Conference (Plenary Lecture on 'Intramural Autonomic Ganglia'), Singapore.	1995
German Research Council Colloquium entitled 'Neuronal Differentiation and Neurotransmission' Freiberg	1996
41st Annual Congress of the German Society of Clinical Neurophysiology. Wuppertal	1996
British Society for Cardiovascular Research, Strathclyde, Glasgow	1996
Purines '96. Molecular, Pharmacological and Therapeutic Advances. Plenary Lecture and Chairman of 3 sessions. Milan	1996
16th Meeting of the International Society of Hypertension. Satellite Meeting. 'The Role of Adenosine and ATP in the Cardiovascular System', Freiberg	1996
Institute Pasteur Euro Conference entitled "Receptors in cardiovascular diseases as drug targets". Paris	1996
American Motility Society Meeting. State-of-the-Art Presentation on 'Purinergetic Mechanisms in the Gastrointestinal Tract'. Traverse City, Michigan	1996
Third Harveian-Texan Conference on "New Horizons in Vascular Endothelium: Physiology, Pathology and Medicine". Berlin.	1996
Inaugural Congress, International Society for Autonomic Neuroscience (G. Burnstock, PRESIDENT and Speaker), Cairns, Australia	1997
The 5th Annual Neuropharmacology Conference on 'Purines and Their Receptors' (Opening Lecture), New Orleans	1997
Experts Caucus on Analgesic/Anti-inflammatory Drug Development, Bayer, New York	1997
Novartis Foundation Discussion Meeting on Dinucleoside Polyphosphates, London	1998
The Renal Association Meeting. Symposium on 'Acute Renal Failure', Bristol	1998
Joint Meeting, Anatomical Society of Great Britain and Ireland, The Anatomical Society	

of Southern Africa and the Nederlandse Anatomen Verniging Symposium: 'Adaptation of cells and tissues to mechanical stimuli', Rolduc	1998
Spring Pain Research Conference, Grand Cayman	1998
6th International Symposium on Adenosine and Adenine Nucleotides, Ferrara	1998
Joint Meeting Anatomical Society of Great Britain and Ireland, Anatomical Society of Southern Africa and Nederlandse Anatomen Vereniging. Symposium "Adaptations of Cells and Tissues to Mechanical Stimuli", Rolduc, Netherlands	1998
Spring Pain Research Conference, Grand Cayman	1998

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Centre for Cardiovascular Biology and Medicine, Meeting on 'Animal Models for Cardiovascular Disease', London	1998
Forum of European Neuroscience. Symposium on 'Molecular Biology of Receptors for Nucleotides and Ecto-nucleotidases', Berlin	1998
6th International Symposium of Adenosine and Adenine Nucleotides. Plenary (Overview) Lecture, Ferrara, Italy	1998
Summer Meeting 'Animal Models of Cardiovascular Disease'. The Centre for Cardiovascular Biology and Medicine, UCL, London	1998
1998 Forum Meeting of European Neuroscience. Overview Lecture in Symposium "Molecular Biology of Receptors for Nucleotides and Ecto-nucleotidases", Berlin	1998
Satellite Symposium to the XIIIth IUPHAR Congress "Nucleotides and their Receptors", Leipzig	1998
Annual Meeting of the German Hypertension Society "Purinerbic Mechanisms in Cardiovascular Regulation", Freiburg	1998
42nd Annual Meeting Western Pharmacology Society (WPS) with ASCEPT (Plenary Lecture) Maui, Hawaii	1999
Deutsche Pharmazeutische Gesellschaft e.V. Fachgruppe Pharmazeutische Chemie. Symposium on 'Glutamate- and P2X-receptors and their ligands', Freiburg 1999	
EU Project Meeting, Milan	1999
Antwerp Neuroscience Seminars, "Purinerbic Signalling", Antwerp	1999
9th World Congress on Pain. Workshop Organiser and Speaker for 'ATP Receptors (P2X) and Pain', Vienna	1999
Kongress für Nephrologie, Symposium, 'Purinerbic Mechanisms in the Kidney', Freiburg 1999	
Sanofi-Synthelabo Round Table on P2Y Receptors, Rome	1999
Autonomic Neurobiology Course, Lisbon University, Portugal	1999
Autonomic Neuroscience (Physiological Society) Symposium, Dublin	1999
National PhD Course 2000: "The Autonomic Nervous System", Göteborg	2000
ASCEPT/BPS Joint Meeting, Symposium: Anglo-Australian Links, Melbourne	2000
Seminar Series: The Expanding Field of Purinerbic Signalling (Opening Lecture), Milan	2000
International Pelvic Pain Society, London	2000
10 <sup>th</sup> International Symposium on Purines and Pyrimidines in Man: Basic and Clinical Aspects (Plenary Lecture), Tel Aviv	2000
Third Workshop on Endothelium-derived Hyperpolarizing Factor, Abbaye des Vaux de Cernay, France	2000
1 <sup>st</sup> International Workshop on Nucleotides and their Receptors in the Immune System (Opening Overview), Ferrara, Italy	2000
All-Russian School of Young Physiologists (Plenary Lecture), Kazan, Russia	2000
International Symposium: Advances in experimental and clinical research of cardiovascular diseases, Zurich	2000
Purines and the Autonomic Nervous System: from Controversy to Clinic. A symposium in Honour of Geoffrey Burnstock (Festschrift). International Society for Autonomic Neuroscience Millennium Congress, London 2000	

3 <sup>rd</sup> Meeting of the Federation of European Pharmacological Societies (EPHAR): State of the Art Lecture on 'Purinergic Receptors', Lyon, France	2001
FENS Summer School on 'Purines and Neuronal Communication', Staff Speaker. Ofir, Portugal	2001
Joint Meeting between Royal Society of Medicine and International Association for the Study of Pain: Lecture on 'Purinergic signalling and bladder pain', London	2001
Kongress für Nephrologie (Plenary Lecture: Purinoceptors and their role in pathophysiology), Münster	2001
Society for Neuroscience 31 <sup>st</sup> Annual Meeting (Lecture in Symposium: Excitatory and Inhibitory Peripheral Targets for Pain Control), San Diego	2001
Second Hellenic Congress of Pharmacology (Lecture in Round Table on 'Recent Developments in Pharmacology'), Athens	2002
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Meeting on Research Methods for Homeopathic Practitioners, London	2002
Chinese Neuropharmacology Meeting (Plenary Lecture), Hang Zhou	2002
International Continence Society (Guest Speaker), Sheffield	2002
Seventh International Symposium on Adenosine and Adenine Nucleotides, Gold Coast, Australia	2002
American Society for Neurochemistry, 33 <sup>rd</sup> Annual Meeting, Palm Beach, Florida, USA	2002
European Association for the Study of the Liver, 'Vascular Function in Liver Disease', London	2002
Joint Symposium Japan Health Science Foundation and the 8 <sup>th</sup> Scientific Meeting of the Japan Purine Club, Tokyo	2003
International Symposium on Pharmaceutical Sciences, Ankara, Turkey	2003
International Society for Autonomic Neuroscience (ISAN), Calgary, Canada	2003
Pain in Europe IV, Prague, Czechoslovakia	2003
IX <sup>th</sup> Oxford Conference on 'Modelling and Control of Breathing', Paris, France	2003
Quebec Pain Research Initiative, Orford, Canada	2003
American Society of Nephrology (ASN) Meeting, San Diego, USA	2003
Royal, Society of Medicine (Urology Section) meeting 'Overactive bladder/underactive penis', London	2004
Special Research Seminar, Welsh School of Pharmacy, Cardiff	2004
Purines 2004, Chapel Hill, USA	2004
29 <sup>th</sup> Congress of the Federation of European Biochemical Societies (FEBS), Warsaw	2004
Joint meeting of British Pharmacological and Danish Pharmacology and Toxicology Societies, Bath	2004
Symposium: 'Nucleotides and their Receptors', Frankfurt	2004
22 <sup>nd</sup> Annual Meeting of the International Society of Blood Purification, London	2004
X11 European Symposium on Neurogastroenterology and Motility, Cambridge	2004
International Children's Continence Society and European Society of Paediatric Urology, Gent	2004
Aventis Lecture: 'Overview of purinergic signalling: therapeutic potential', Bridgewater, USA	2004
XXXV International Congress of Physiological Sciences (IUPS) Symposium 'Signalling Pathways in Gut Mechanosensitivity', San Diego	2005
Invited Lecture 'Purinergic Signalling in the Urinary Tract', 13 <sup>th</sup> Annual University of Pittsburgh Pharmacology Retreat, Seven Springs, USA	2005
Novartis Foundation Symposium No 276. 'Purinergic signalling in neuron-glia interactions', London	2005
Joint International Meeting of the Physiological Society and Federation of European Physiological Societies (FEPS) Symposium: 'Cellular ATP release in health and disease', Bristol	2005
John Fozard Retirement Symposium. 'Timeless Pharmacology: A Celebration', Horsham (UK)	2005

First Joint Italian-German Purine Club meeting (Opening Lecture), Chieti (Italy)	2005
XVth World Congress of Pharmacology (IUPHAR) (Symposium Lecture), Beijing	2006
Invited Seminar and Discussion Meeting, Max Delbrück Center, Berlin	2006
Physiological Society Symposium and Festschrift for Professor Chris Bell, Trinity College, Dublin	2006
Symposium for the 70 <sup>th</sup> birthday of Professor Sylvester Vizi, President of the Hungarian Academy of Science, Budapest	2007

## PROFESSOR G. BURNSTOCK LINKS WITH PHARMACEUTICAL INDUSTRY

COMPANY	BASE	ROLE	PERIOD
PROCTOR & GAMBLE	Cincinnati, USA	Consultant	1975-1979
BEECHAM PHARMACEUTICALS	Harlow, UK	Short-term Consultancies	1978, 1988
MERCK, SHARP & DOHME RESEARCH LABORATORIES	West Point, USA	Consultant Research Support	1979-1983
BOEHRINGER INGELHEIM	Bracknell, UK	Research Support	1983-1985
NOVA PHARMACEUTICAL CORPORATION	Baltimore, USA	Consultant (Scientific Advisory Board)	1984-1989
SMITH, KLINE & FRENCH RESEARCH LIMITED	Welwyn, UK	Research Support Short-term Consultancies	1985-1988
SANDOZ LTD	Basel, Switzerland	Research Support	1985
CIBA-GEIGY	New Jersey, USA	Short-term Consultancies	1987, 91, 93
ICI PHARMACEUTICALS	Wilmington, USA	Short-term Consultancies	1986, 89, 90
GLAXO	Verona, Italy	Research Support	1988-1990
JANSSEN RESEARCH FOUNDATION	Beerse, Belgium	Research Support	1988-1991
FIDIA RESEARCH LABS	Abano Terme, Italy	Research Support	1989-1992
EISAI (LONDON) RESEARCH LABORATORIES LTD	London, UK/ Tokyo, Japan	Consultant (Chairman, SAB) Research Support	1990-1997
SMITH, KLINE & BEECHAM PHARMACEUTICALS	Welwyn	Research Support	1991
FISONS PHARMACEUTICALS	Loughborough, UK	Research Support	1993
REGENERON PHARMACEUTICALS	Tarrytown, New York, USA	Short-term Collaboration	1993
INSTITUT DE RECHERCHES INTERNATIONALES SERVIER	Paris, France	Strategic Alliance Consultant	1994-1997 1997-2000
RECORDATI INDUSTRIA CHIMICA E FARMACEUTICA	Milan, Italy	Research Donation	1997-1998
NEUROVEX ABBOTT LABORATORIES	London, UK Chicago, USA	Scientific Advisory Board Strategic Alliance	1999-2000 1998-2001
BIOREX R AND D	Budapest, Hungary	Consultant	1992-2002
RESEARCH BIOCHEMICALS INCORPORATED (RBI)	Natick, Maryland, USA	Scientific Advisory Board	1994-
ROCHE BIOSCIENCE	Palo Alto, USA	Strategic Alliance and Consultant	1996-2003
INSPIRE	Durham, USA	Consultant	1996-
ENDACEA INC. (formerly Link Pharmaceuticals)	Raleigh, USA	Consultant (Joint Chairman, SAB)	1997-
NEOTHERAPEUTICS INC.	Irvine, USA	Scientific Advisory Board	1999-2001
DUSKA SCIENTIFIC CO.	Philadelphia	Chairman, Scientific Advisory Board	2000-
BIOGEN IDEC INC. CytRx CORPORATION	Cambridge, MA Los Angeles	Consultant Scientific Advisory Board	2005- 2005-



## SUPERVISION OF POSTGRADUATE STUDENTS

MSc	C. Bell	1964	Cholinergic transmission mechanisms in vertebrates
PhD	D.C. Rogers	1964	Comparative electronmicroscopy of smooth muscle and its innervation
PhD	G.D. Campbell	1965	Studies of the autonomic innervation of the viscera
MSc	M.J. Wood	1965	Comparative physiology of the innervation of the urinary bladders and lungs of the Jamaican toad ( <u>Bufo marinus</u> ) and the sleepy lizard ( <u>Trachysaurus rugosus</u> )
MSc	M.R. Bennett	1965	A study of transmission from autonomic nerves to smooth muscle
MSc	H.M.R. Cooper	1965	The uses of drugs for the analysis of autonomic innervation
PhD	C. Bell	1966	Innervation of the pelvic viscera
PhD	M.R. Bennett	1967	A study of transmission from autonomic nerves to smooth muscle
MSc	S.E. Kirby	1968	A comparative study of the innervation of cardiovascular systems
MSc	J.B. Furness	1969	Electrophysiological studies of transmission at an autonomic neuromuscular junction
MSc	J.D.K. Houchin	1969	Electronmicroscope studies of the autonomic nervous system, fine structure and localisation of acetylcholinesterase
PhD	P. Robinson	1969	Studies on the fine structure of autonomic innervation
PhD	T. Bennett	1970	Autonomic neuroeffector systems with particular reference to birds
MSc	V.C. Zawalinski	1970	A study of the structure and electrophysiology of the guinea-pig ureter
PhD	J.B. Furness	1971	The innervation of the mammalian gastrointestinal tract
PhD	J.B. Hurley	1971	Comparative and developmental studies of the localisation of monoamines in the vertebrate gastrointestinal tract
PhD	J.R. McLean	1971	Localisation of monoamines in the autonomic nervous system
MSc	A.E. Smythe	1971	Studies on the nature of transmitter substances released by non-adrenergic non-cholinergic nerves to smooth muscle

PhD	B.J. Gannon	1972	Comparative and developmental studies of autonomic nerves in visceral and cardiovascular systems
MSc	M.E. Wright	1972	Histochemical and biochemical studies of noradrenaline accumulation in smooth and cardiac muscle
PhD	J.H. Chamley	1973	Autonomic neurons and their effector organs in tissue culture
PhD	G.R. Campbell	1974	Ultrastructural studies of smooth muscles: with emphasis on factors affecting repair
PhD	C.E. Hill	1974	Tissue culture of autonomic neuroeffector systems
PhD	R.D. Purves	1975	An electrophysiological study of muscle in tissue culture
PhD	A.M. Rutherford	1975	An investigation of the purinergic nerve hypothesis
PhD	J. Heath	1975	Ultrastructural studies of the effects of chronic guanethidine treatment on sympathetic neurons
PhD	B.K. Evans	1976	Cellular effects of chronic drug administration
PhD	G.E. Mark	1977	Development of, and interactions between cultured sympathetic nerves and smooth and cardiac muscle cells
PhD	T. Cocks	1979	Purinergic innervation of smooth muscle
PhD	R. Crowe	1980	Histochemical localisation of non-adrenergic, non-cholinergic nerves
PhD	K.R. Jessen	1980	The enteric nervous system <u>in vitro</u> : cell types and some putative transmitters
PhD	C. Brown	1981	An investigation of the P <sub>1</sub> /P <sub>2</sub> purinoceptor hypothesis
PhD	G. Greenberg	1981	Cellular interactions <u>in vitro</u> : time lapse cinephotomicrography and electron microscopy
PhD	P. Baluk	1982	The enteric nervous system: morphology and development <u>in vivo</u> and <u>in vitro</u>
PhD	I. MacKenzie	1982	Polypeptides and ATP: putative autonomic neurotransmitters
PhD	T. Cowen	1982	Quantitative morphological studies of vessel innervation
MSc	S.G. Elsarrag	1982	Investigation of the possible trophic actions of adenosine on smooth muscle, sympathetic nerves and pheochromocytoma cells
PhD	C.J. Moody	1983	Prejunctional actions and release of purine nucleotides and nucleosides

PhD	S.G. Griffith	1983	Adrenergic, serotonergic and purinergic regulation of vascular tone a pharmacological and histochemical study
MSc	M. Hero-Preziosi	1983	An immunohistochemical survey of intraocular neuropeptides
PhD	P. Meghji	1983	Pharmacological studies of purinoceptors in the vertebrate heart
PhD	J.M. Hills	1984	Putative autonomic transmitters and modulators: mechanisms of action, receptors and release
PhD	N.J. Buckley	1984	Autoradiographic localisation of muscarinic and purinergic receptors of the neurons and effector organs of the autonomic nervous system
PhD	C. Kennedy	1984	The regulation of vascular tone by purine nucleosides and nucleotides
MSc	A. Belai	1984	Immunohistochemical and biochemical study of the enteric nervous system in diabetic rats
PhD	L.A. Meldrum	1984	Purinoceptors in neurotransmission, co-transmission and neuromodulation
PhD	C.H.V. Hoyle	1986	Autonomic neurotransmission and neuromodulation with the emphasis on purinoceptors
MSc	M.D.A. Stanley	1986	Autonomic neurotransmission
MSc	K.I. Maynard	1987	Immunohistochemical and pharmacological investigations of the peptidergic innervation of the rabbit ear artery and A preliminary study of the effect of x-irradiation on its innervation
PhD	M.J. Saffrey	1987	Localization of putative neurotransmitters in the enteric nervous system during development <u>in vitro</u> and <u>in vivo</u>
PhD	C.J.S. Hassall	1987	Intrinsic cardiac neurones and associated cells in culture
PhD	J.J.I. Warland	1988	The role of ATP in the regulation of vascular tone
PhD	H.E. Moss	1988	Autonomic control of the urinogenital organs in man and animal models of diabetes
PhD	W.M. Reilly	1988	Adrenoceptors and purinoceptors in caecum and portal vein
PhD	A. Belai	1989	Localization and release of monoamines and neuropeptides in normal and diabetic gut
PhD	V.L. Saville	1989	Vascular neurotransmission - involvement of purines and peptides

PhD	J.L. Ellis	1989	Neuromodulation of autonomic cotransmission
PhD	V. Ralevic	1989	Local control of vascular tone by perivascular nerves and endothelial cells
PhD	T.G.J. Allen	1990	Electrophysiological studies of intramural neurones from the mammalian heart and airways
MD	A. Jackowski	1990	Pathophysiological mechanisms in subarachnoid haemorrhage
PhD	S. James	1990	Autoradiographic localization of receptors in the periphery
MD	C.R. Chapple	1990	The importance of neural factors in the presentation and treatment of prostatic obstructions
PhD	A.L. Stewart-Lee	1991	Local control of vascular tone by perivascular nerves and the endothelium: changes after X-irradiation and in atherosclerosis
PhD	A.L. Brizzolara	1991	Dual control of blood flow by perivascular nerves and endothelial cells: changes in development, atherosclerosis and acrylamide neuropathy
PhD	L.A. Corr	1991	Peptidergic, purinergic and adrenergic neurotransmitters in the control of the coronary artery
PhD	K.I. Maynard	1991	Local neural and endothelium-mediated control of the rabbit central ear artery: changes with chronic nerve stimulation, X-radiation and acrylamide poisoning
PhD	M.C. Mione	1991	Plasticity of perivascular nerves
PhD	J.A. Aberdeen	1991	Perivascular nerves: changes in ageing and disease
PhD	X. Bo	1992	Characterization, localization and solubilization of P <sub>2</sub> X-purinoceptors
MSc	C. Balaskas	1993	Colocalization of NADPH-diaphorase with nitric oxide synthase and vasoactive intestinal polypeptide in neurons of embryonic and perinatal chicken gastrointestinal tract
MD	R.W. Stones	1994	Local vascular control in the human ovarian circulation
PhD	A.J. Vials	1994	Local control of coronary vascular resistance
MD	P.J. Hamlyn	1994	Subarachnoid haemorrhage
PhD	K.A. Kirkpatrick	1994	Release of adenosine 5'-triphosphate as a cotransmitter with noradrenaline from the sympathetic nerves innervating the rat and guinea-pig vasa deferentia

PhD	E.M.M. Tew	1994	Transplantation of enteric ganglia and intestinal smooth muscle into the adult rat brain
PhD	G.E. Knight	1995	A comparative study of purinoceptors in some invertebrates and vertebrates
PhD	V. Höpker	1995	Trophic actions of myenteric plexus explants on striatal neurons in cell culture
PhD	M. Afework	1995	Distribution of nitrergic nerves in the rat adrenal gland: plasticity in aging and disease
PhD	A. Sexton	1995	Local control of human umbilical vessel tone
MPhil	S. Ashraf	1996	Ultrastructure and perivascular innervation of blood vessels in human colorectal liver metastases and two animal models
PhD	M.M. Brauer (Overseas Candidate)	1997	Age-related changes and plasticity of the autonomic innervation of the female genital tract
PhD	M. McMillan (Joint Supervisor Prof.S.G. Howarth)	1998	The role of purine receptors in the control of pulmonary vascular reactivity in the normal and hypertensive newborn piglet
PhD	P. Karoon	1998	Local control of vascular tone: changes in hibernation, hypertension, hyperlipidemia and after sensory denervation
MD	S. Bavetta	1999	New methodologies for the treatment of experimental spinal cord injury
PhD	S.S. Wildman	1999	Purinergic signalling: Sensitisation of Recombinant P2X receptors
PhD	M. Meyer	1999	A study of the distribution and function of P2 receptors during chick embryogenesis
PhD	D. Saitongdee	2000	Cardiovascular changes during and after arousal from hibernation in golden hamsters
PhD	K.K. Dhital	2000	Perivascular innervation of cerebral arteries and vasa nervorum: changes in development and disease
PhD	A. Wong	2000	The single channel properties of native P2X ATP Receptors in the rat central nervous system
PhD	M. Liu	2001	Coexpression of recombinant P2X receptors and their relation to ATP-gated channels in sensory neurones
PhD	R. Glass	2001	Purinergic signalling in endocrine organs: testis; thyroid; thymus
MD	V. Chamary	2001	The innervation and ultrastructure of blood vessels supplying benign and malignant colorectal tumours

PhD	S. Brown	2001	Pharmacological agents that distinguish between P2X Receptor subtypes
PhD	A. Hoebertz	2001	Purinergic signalling in bone cells
PhD	W. Norton	2002	Purinergic signalling during zebrafish development and the characterization of novel fish mutants
MD	D. Birch	2002	The perivascular innervation of human mesenteric blood vessels in health and inflammatory bowel disease.
MPhil	A. Alavi	2002	ATP and ATP receptors in human dental pulp.
PhD	B. Kalmar	2003	Neuroprotection: role of heat shock proteins and astroglia in models of neurodegeneration and neuroinflammation.
PhD	A. Greig	2003	Purinergic signalling in skin.
PhD	M. Ryten	2003	Purinergic signalling in mammalian skeletal muscle development and regeneration.
PhD	D.J.Williams	2003	The control of vascular tone in pregnancy
MD	R.C. Calvert	2003	Purinergic signalling in the urinary tract
PhD	K.K. Cheung	2004	Purinergic signalling during rat embryonic development
MD	G. Wynn	2005	The role of adenosine 5'-triphosphate in mechanosensory transduction in the rat colorectum
PhD	I. Orriss	2005	The regulation of bone cell function by extracellular nucleotides
MD	N. White	2006	Purinergic signalling in malignant melanoma
MD	F. Banks	2006	Purinergic signalling in the human urinogenital system
MD	M. Metcalfe	2007	Purinergic signalling in varicose veins and in chronic venous insufficiency
MD	M. Shabbir	2007	Effect of ATP on prostate and bladder cancer

## To be completed

<b>Degree</b>	<b>Name</b>	<b>Title</b>
MD	S.J. Burrell (Co-supervisor, John Kingdom)	Purinergic signalling in human placental cotyledons
PhD	J. Gever,  Roche Bioscience, California (Co-supervisor Anthony Ford – Overseas candidate)	Development of P2X receptor antagonists for the treatment of pain
PhD	A. Jagroop (Co-supervisor Dimitri Mikhailidis)	Role of P2Y receptors in platelet aggregation in health and peripheral vascular disease
MD	G. Bapat (Co-supervisor Daryl Baker)	Purinergic signalling in ischaemic muscle
MD	O. Fajobi (London Hospital)	Purinoceptors in human intestine
MD	P. Kalu (Co-supervisor Peter Butler)	Effect of microsurgical clamping and anastomosis on femoral artery
PhD	R. Bulijubasich, Melbourne (Co-Supervisor Sab Ventura – overseas candidate)	Purinergic neurotransmission to guinea pig prostate

