



27° Annual meeting of NEURODIAB 9-11 September 2017, Portugal

Lifetime Achievement Award to

Mary Cotter and Norman Cameron

*The value of a career
The precious pearl of a friendship*

By Vincenza Spallone

Neurodiab Lifetime Achievement Award



19th Neurodiab Meeting Orvieto 2008. The first Lifetime Achievement Awards winners: John Ward, Peter Watkins, Guido Menzinger, F. Arnold Gries



20th Neurodiab meeting Toronto 2009.
Peter J. Dyck, winner of the Lifetime Achievement Awards

Stockholm 2010
David Tomlinson

Porto 2011
Aaron Vinik













Dresden 2012
Anders A.F. Sima



Mary Cotter and
Norman Cameron

*Lives side
by side*

The oldest existing Universities in the world

Year	University	Location original	Location current
1088	University of Bologna	 Kingdom of Italy,  Holy Roman Empire	 Bologna, Italy
1096–1167	University of Oxford	 Kingdom of England	 Oxford, UK
1134	University of Salamanca	 Kingdom of León	 Salamanca, Spain
1209	University of Cambridge	 Kingdom of England	 Cambridge, UK
1222	University of Padua	 Lombard League	 Padua, Italy
1224	University of Naples Federico II	 Kingdom of Sicily	 Naples, Italy
1290	University of Coimbra⁽¹⁹⁾	 Kingdom of Portugal	 Coimbra, Portugal
1290	University of Macerata ⁽¹⁹⁾	 Papal States	 Macerata, Italy
1293	University of Alcalá	 Crown of Castile	 Alcalá de Henares, Spain
1303	Sapienza University of Rome	 Papal States	 Rome, Italy
1308	University of Perugia	 Papal States	 Perugia, Italy
1321	University of Florence	 Republic of Florence	 Florence, Italy
1343	University of Pisa	 Republic of Pisa	 Pisa, Italy
1348	Charles University of Prague	 Kingdom of Bohemia	 Prague, Czech Republic
1357	University of Siena	 Republic of Siena	 Siena, Italy
1361	University of Pavia	 Domain of the House of Visconti	 Pavia, Italy
1364	Jagiellonian University	 Kingdom of Poland	 Kraków, Poland
1365	University of Vienna	 Holy Roman Empire	 Vienna, Austria
1386	Ruprecht Karl University of Heidelberg	 Holy Roman Empire	 Heidelberg, Germany

Year	University	Location original	Location current
1391	University of Ferrara	 House of Este	 Ferrara, Italy
1404	University of Turin	 Duchy of Savoy	 Turin, Italy
1409	University of Leipzig	 Holy Roman Empire	 Leipzig, Germany
1413	University of St. Andrews	 Kingdom of Scotland	 St. Andrews, UK
1419	University of Rostock	 Holy Roman Empire	 Rostock, Germany
1434	University of Catania	 Kingdom of Sicily	 Catania, Italy
1450	University of Barcelona	 Crown of Aragon	 Barcelona, Spain
1451	University of Glasgow	 Kingdom of Scotland	 Glasgow, UK
1456	University of Greifswald	 Holy Roman Empire	 Greifswald, Germany
1457	Albert Ludwigs University of Freiburg	 Holy Roman Empire	 Freiburg, Germany
1460	University of Basel	 Holy Roman Empire	 Basel, Switzerland
1472	Ludwig Maximilians University of Munich	 Holy Roman Empire	 Munich, Germany
1477	Eberhard Karls University of Tübingen	 Holy Roman Empire	 Tübingen, Germany
1477	Uppsala University	 Kingdom of Sweden within the Kalmar Union	 Uppsala, Sweden
1479	University of Copenhagen	 Kingdom of Denmark within the Kalmar Union	 Copenhagen, Denmark
1481	University of Genoa	 Republic of Genoa	 Genoa, Italy
1495	University of Aberdeen	 Kingdom of Scotland	 Aberdeen, UK
1495	University of Santiago de Compostela	 Galicia, Crown of Castile	 Santiago de Compostela, Spain
1499	University of Valencia	 Crown of Aragon	 Valencia, Spain
By 1293	University of Valladolid	 Kingdom of Castile	 Valladolid, Spain

Academic positions

Mary Cotter



- Honour degree in Biological sciences, University of Birmingham (1970)
- Postgraduate certificate of education
- PhD in Physiology, University of Birmingham (1975)
- Wellcome Postdoctoral Fellowship, University of Birmingham
- Lecturer in Physiology for the Nursing Degree, University of Hull
- Lecturer in Physiology, University of Aberdeen (1979)
- Senior lecturer in Physiology, University of Aberdeen (1992)
- **Chair of Systems Physiology, University of Aberdeen (2001)**
- Professor Emeritus, University of Aberdeen (2015)

Academic positions

Norman Cameron



- Honour degree in Biological Sciences from East Anglia University (Norwich, UK) (1970)
- Doctorate (D.Phil.) in Experimental Physiology from Sussex University (Brighton, UK) (1975).
- Postdoctoral positions at Sussex and Birmingham Universities, (1975-1977)
- Temporary Lecturer, Leeds University (1977)
- Lecturer (1978), Senior Lecturer (1992), and Reader in Physiology, University of Aberdeen (1999)
- **Personal Chair in Vascular Neurobiology, University of Aberdeen**
- Professor Emeritus, University of Aberdeen (2015)

Teaching as a privilege

Mary Cotter

Teaching recognitions

- Coordinator of Phase I MBChB,
- Executive Dean (Teaching) of the Faculty of Medicine and Medical Sciences (1995-2001),
- Director of Teaching and Learning for the College of Life Sciences and Medicine, University of Aberdeen.
- Simpson Medal for outstanding contribution to the teaching of medical students, University of Aberdeen (2010).



NEWS

 LIVE BBC NEWS AT TEN

Otto Hutter Teaching Prize

In 2009 The Society launched the Otto Hutter Teaching **Prize to recognise outstanding teachers of undergraduate physiology** and to raise the profile of physiology teaching. The prize's namesake, Professor Otto Hutter, emeritus Regius Professor of Physiology at University of Glasgow, is recognised as a passionate and innovative teacher. He pioneered perhaps the first, fully-integrated electrophysiological lab for junior teaching. He was also a virtuoso of small group teaching, famous for throwing the blackboard chalk to students as an inducement to do some of the board-work.

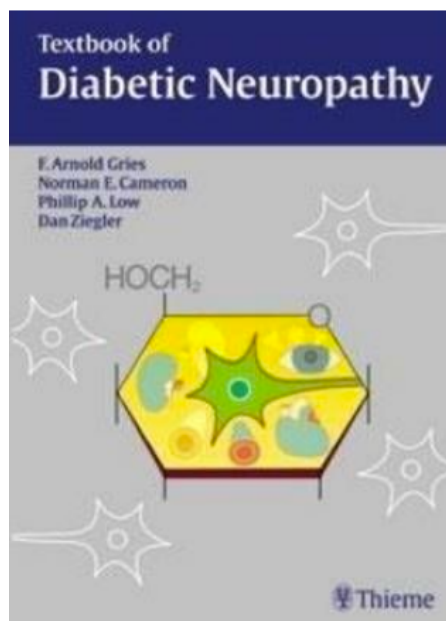
The inaugural prize winner in 2010 was Professor Mary Cotter, who is Professor of Systems Physiology at the University of Aberdeen. She was nominated **for her innovative approach to teaching** - introducing problem-based learning, student-led teaching and interactive lectures - **and the passion she gives to lecturing. It is reported that standing ovations are not unheard of in Mary's lectures.**

Speaking of her passion for teaching, Mary says ***"I feel it is a real privilege to be able to teach students Physiology because it is the best subject. I love teaching science and medical students Physiology, particularly the tricky bits like acid-base and respiratory mechanics."***

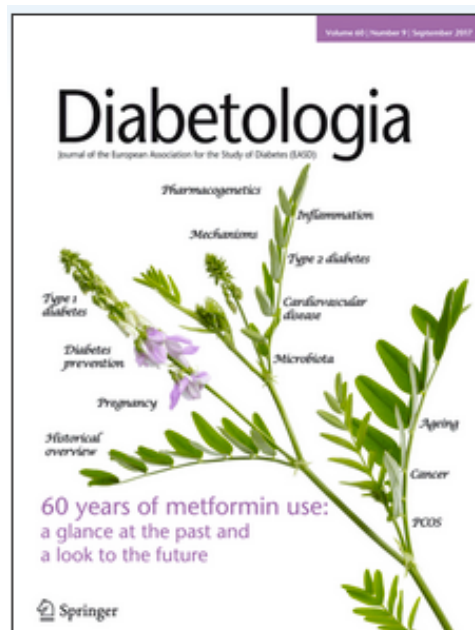
<http://www.physoc.org/teaching-prize-winners>

http://news.bbc.co.uk/1/hi/scotland/north_east/8582906.stm

Editorial activities and dissemination of knowledge



Gries F.A., **Cameron N.E.**,
Low P.A., Ziegler D. (Eds)
Textbook of Diabetic Neuropathy
Georg Thieme Verlag 2002



Associate Editor
Norman E Cameron



Editorial Board
Norman E Cameron



Editor-in-Chief:
Norman E. Cameron, UK

Research activities

Publications >150 original papers, reviews and book chapters

**Nerve blood flow in early experimental diabetes in rats:
relation to conduction deficits**

NORMAN E. CAMERON, MARY A. COTTER, AND PHILLIP A. LOW



1991

Neurovascular Dysfunction in Diabetic Rats

Potential Contribution of Autoxidation and Free Radicals Examined Using Transition Metal Chelating Agents

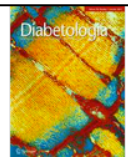
Norman E. Cameron and Mary A. Cotter



1995

**Comparison of the effects of inhibitors of aldose reductase
and sorbitol dehydrogenase on neurovascular function,
nerve conduction and tissue polyol pathway metabolites
in streptozotocin-diabetic rats**

N. E. Cameron¹, M. A. Cotter¹, M. Basso², T. C. Hohman²



1997

**Effects of antioxidants on nerve and vascular dysfunction in
experimental diabetes**

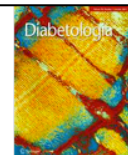
Norman E. Cameron *, Mary A. Cotter



2001

**Vascular factors and metabolic interactions in the pathogenesis of
diabetic neuropathy**

N. E. Cameron¹, S. E. M. Eaton², M. A. Cotter¹, S. Tesfaye²



2001

**Effects of Proinsulin C-Peptide in Experimental
Diabetic Neuropathy**

Vascular Actions and Modulation by Nitric Oxide Synthase Inhibition

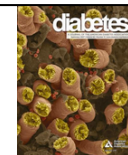
Mary A. Cotter,¹ Karin Ekberg,² John Wahren,² and Norman E. Cameron¹



2007

**Role of Endoplasmic Reticulum Stress in
Diabetic Neuropathy**

Norman E. Cameron



2013

**Pro-Inflammatory Mechanisms in Diabetic Neuropathy: Focus on the
Nuclear Factor Kappa B Pathway**

Norman E. Cameron* and Mary A. Cotter



2008

Pathogenesis of diabetic neuropathy: Focus on
neurovascular mechanisms

P. Sytze Van Dam^a, Mary A. Cotter^b, Bert Bravenboer^c, Norman E. Cameron^{b,*}



2013

Research activities

Research interests

diabetic polyneuropathy, autonomic neuropathy, the vascular effects of diabetes, vascular endothelium dysfunction, brain and peripheral neural tissue blood flow, erectile dysfunction

Main achievements

Pathogenesis of diabetic neuropathy and vascular endothelium dysfunction:

- the pathogenetic role of neurovascular factors
- the relationship between vascular changes and metabolic factors
- the role of pro-inflammatory mechanisms (NFκB, p38 MAPK)
- the role of impaired neuronal blood flow in erectile dysfunction
- trials in animal models of different treatments targeted to nerve blood flow deficit, polyol pathways, oxidative/nitrosative stress, advanced glycation/lipoxidation, P38 MAPK, PARP activity, and inflammation.

Activity in Scientific Societies and Organizations

Mary Cotter

- Member of the Council of the Physiological Society

Norman Cameron

- Scientific adviser for Diabetes UK
- Medical and Scientific Review Panel of the Juvenile Diabetes Research Foundation International
- Member of the Diabetic Neuropathy Committee of the International Diabetes Federation.

The 25 Neurodiab Annual meetings: Local Organizers



Year	Place	Local Organizers
1991	Cork, Ireland	CH Walsh
1992	Bratislava, Slovakia	B Krahulec
1993	Istanbul, Turkey	G Menzinger
1994	Düsseldorf, Germany	FA Gries
1995	Stockholm, Sweden	G Sundkvist
1996	Baden, Austria	D Ziegler
1997	Noordwijkerhout, Netherlands	WH Gispen
1998	Sitges, Spain	D Tomlinson, A Odriozola
1999	Maastricht, Netherlands	B Bravenboer
2000	Fiuggi, Italy	G Menzinger, L Uccioli
2001	Aberdeen, UK	M Cotter, N Cameron
2002	Balatonfüred, Hungary	P Kempler, E Kádár, Z Hermányi
2003	St Malo, France	P Valensi
2004	Regensburg, Germany	S Morbach
2005	Porto Heli, Greece	I Migdalis
2006	Ystad, Sweden	G Sundkvist
2007	Utrecht, The Netherlands	G-J Biessels, PS van Dam
2008	Orvieto, Italy	V Spallone, S Frontoni
2009	Toronto, Canada	V Bril, S Tesfaye
2010	Stockholm, Sweden	J Wahren, K Ekberg, Å Kallas, T Brismar, H Andersen
2011	Porto, Portugal	I Tavares, C Morgado, JL Medina, JC Lopes
2012	Dresden, Germany	D Ziegler
2013	Castelldefels, Spain	A Odriozola
2014	Sopron, Hungary	P Kempler
2015	Elsinore, Denmark	H Andersen, JK Jakobsen, J Hilsted
2016	Bucharest, Romania	R Pop-Busui, Norina Alinta Gavan

Neurodiab Istanbul 1993



*Norman Cameron, Mary Cotter and Solomon
Tesfaye at the Sultan Ahmet Camii in Istanbul 1993*

Neurodiab Saint Malo 2003



Norman Cameron, Mary Cotter in Sain Malo 2003

Neurodiab Ystad 2006



Participants to Neurodiab Ystad 2006