

# ***27<sup>o</sup> 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*



Mary Cotter and  
Norman Cameron

*Lives side  
by side*



# Academic positions

**Mary Cotter**



- Honour degree in Biological sciences, University of Birmingham (1970)
- Postgraduate certificate of education
- PhD in Physiology, University of Birmingham (1975)
- Welcome 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).

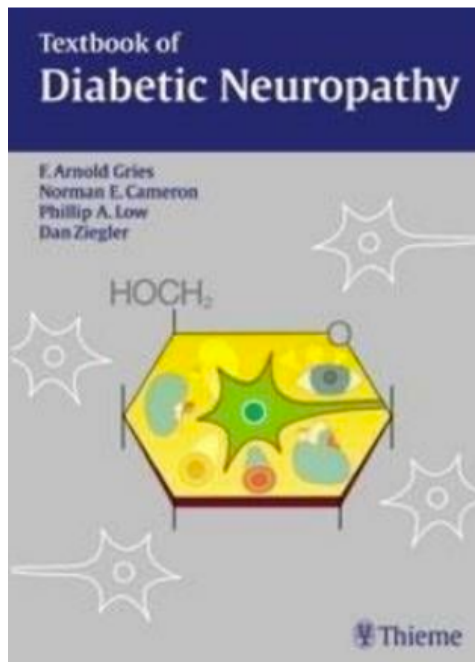
## Otto Hutter Teaching Prize

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.

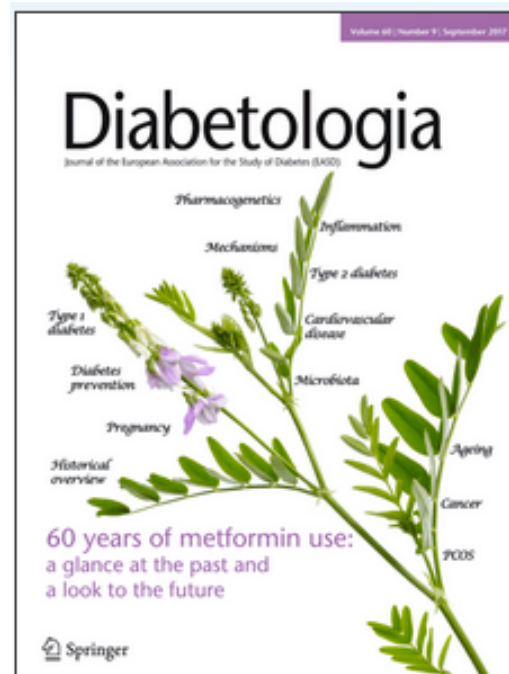
**The inaugural prize winner in 2010 was Professor Mary Cotter**, who is Professor of Systems Physiology at the University of Aberdeen. She was nominated **for her innovative approach to teaching** - introducing problem-based learning, student-led teaching and interactive lectures - **and the passion 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."***

# 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**



1991

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

**Neurovascular Dysfunction in Diabetic Rats**

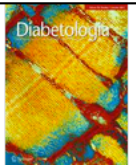
Potential Contribution of Autoxidation and Free Radicals Examined Using Transition Metal Chelating Agents



1995

Norman E. Cameron and Mary A. Cotter

**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**



1997

N. E. Cameron<sup>1</sup>, M. A. Cotter<sup>1</sup>, M. Basso<sup>2</sup>, T. C. Hohman<sup>2</sup>

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

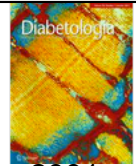
Norman E. Cameron \*, Mary A. Cotter



2001

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

N. E. Cameron<sup>1</sup>, S. E. M. Eaton<sup>2</sup>, M. A. Cotter<sup>1</sup>, S. Tesfaye<sup>2</sup>



2001

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

Vascular Actions and Modulation by Nitric Oxide Synthase Inhibition

Mary A. Cotter,<sup>1</sup> Karin Ekberg,<sup>2</sup> John Wahren,<sup>2</sup> and Norman E. Cameron<sup>1</sup>



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<sup>a</sup>, Mary A. Cotter<sup>b</sup>, Bert Bravenboer<sup>c</sup>, Norman E. Cameron<sup>b,\*</sup>



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 (NF $\kappa$ B, 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
<b>2001</b>	<b>Aberdeen, UK</b>	<b>M Cotter, N Cameron</b>
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



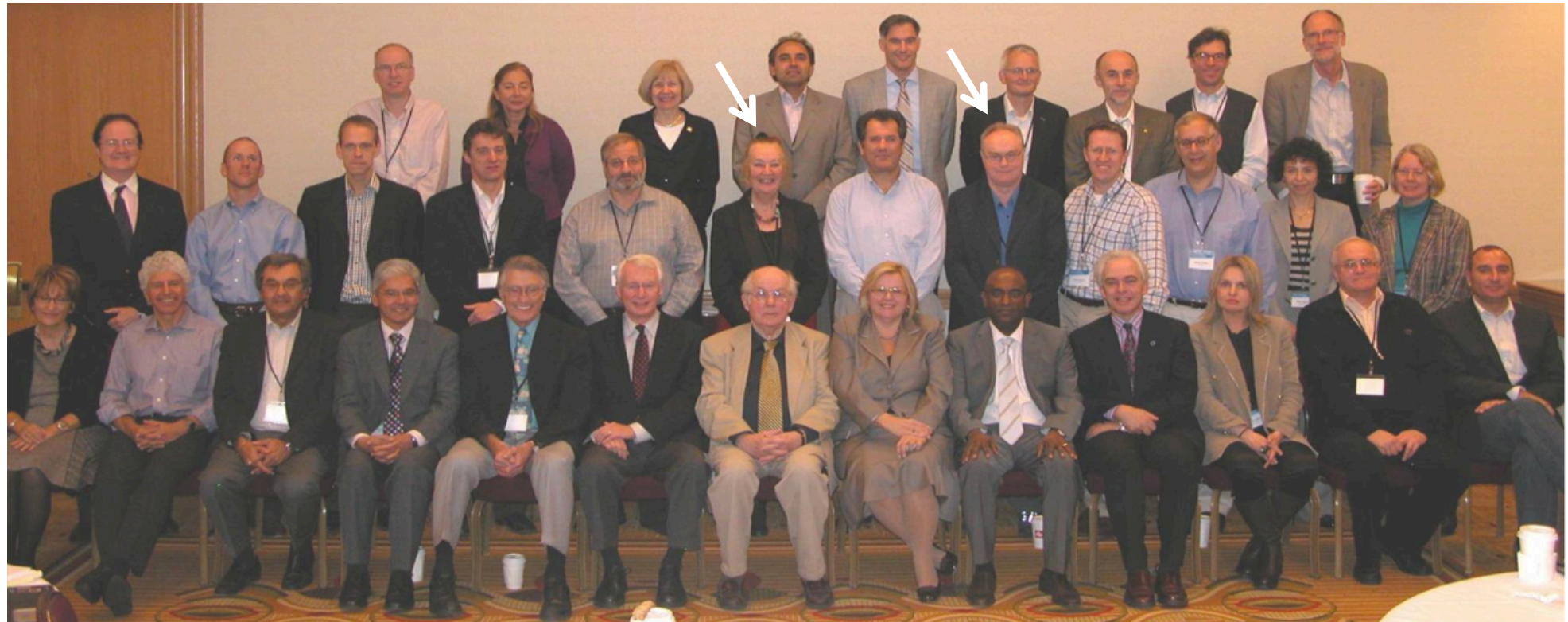
# Neurodiab Orvieto 2008

Participants to  
Neurodiab Orvieto  
2008





# Neurodiab guidelines: Toronto Consensus Panel 2009



# Neurodiab Sophron 2014





# The Neurodiab Executive Committees

Year	Chair person	Vice Chairman	Secretary	Members	Honorary Treasurer
1991-1994	G Menzinger	FA Gries	J Hilsted	JD Ward, PJ Watkins	-
1995-1996	FA Gries	JD Ward	G Menzinger	J-R Attali, J Hilsted, D Tomlinson	-
1997	FA Gries	JD Ward	G Menzinger	J-R Attali, D Tomlinson	-
1998	D Tomlinson	D Ziegler (?)	G Menzinger	J-R Attali, J Jakobsen, G Sundkvist	-
1999-2000	D Tomlinson	D Ziegler	-	J-R Attali, B Bravenboer, J Jakobsen, G Sundkvist	-
2001-2003	D Ziegler	G Sundkvist	-	B Bravenboer, <b>N Cameron</b> , J Jakobsen, P Valensi	-
2004	P Valensi	S Tesfaye	V Spallone	B Bravenboer, <b>N Cameron</b> , P Kempler	-
2005-2006	P Valensi	S Tesfaye	V Spallone	GJ Biessels, <b>N Cameron</b> , P Kempler	-
2007	S Tesfaye	-	V Spallone	GJ Biessels, <b>N Cameron</b> , P Kempler	P Valensi
2008-2009	S Tesfaye	<b>M Cotter</b>	V Spallone	GJ Biessels, P Kempler, RA Malik	P Valensi
2010	RA Malik	<b>M Cotter</b>	S Frontoni	GJ Biessels, BA Mankovsky, D Ziegler	P Valensi
2011-2012	RA Malik	<b>M Cotter</b>	S Frontoni	H Andersen, BA Mankovsky, D Ziegler	P Valensi
2013	H Andersen	<b>M Cotter</b>	S Frontoni	RA Malik, BA Mankovsky, D Ziegler	P Valensi
2014-2015	H Andersen	M Stevens	S Frontoni	BA Mankovsky, D Ziegler	N Calcutt
2015-2016	S Frontoni	-	D Selvarajah	H Andersen, L Bernardi, T Varkonyi	N Calcutt

# The 2013 Neurodiab Executive Committee



## 2013 Executive Committee

**Henning Andersen** (Chairman), **Mary Cotter** (Vice-Chairman), **Simona Frontoni** (Secretary), **Paul Valensi** (Honorary Treasurer), **Rayaz A Malik**, **Boris A Mankovsky**, **Dan Ziegler**

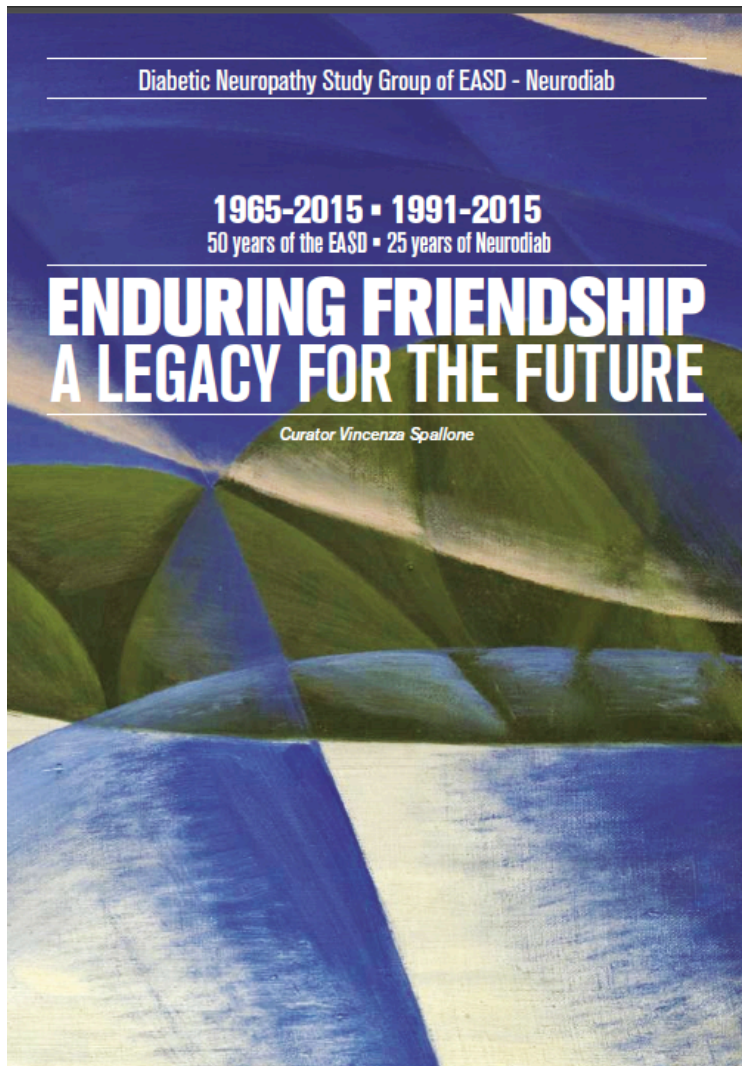




## A history of friendship



# Neurodiab: a history of friendship



*“I have happy memories of many of the meetings, they tend to merge into **one happy remembered society** that is Neurodiab.”*

*Mary Cotter*

*“A very successful and joyful organization that has always felt **more like a family than anything else.**”*

*Mary Cotter*





*Mary Cotter  
and  
Norman Cameron*

*Lives side  
by side*

