



Honorary member of ORPHEUS



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ACADEMIC QUALIFICATIONS

1962 – Honours degree in Mathematics and Engineering Science (1st class), Oxford University, Oxford, UK.

1978 – Ph.D. in Biophysics, University of Aarhus.

1983 – Doctor of Medical Sciences (DMSc.) in Biophysics, University of Aarhus

PROFESSIONAL EXPERIENCE

1969-88 – Assistant/Associate Professor, Dept. Biophysics, University of Aarhus.

1974-76 – Research Associate, Dept. Physiology, University of Vermont, Vermont, USA.

1988-92 – Associate Professor/Docent, Dept. Pharmacology, University of Aarhus.

1997-2011 Professor, Dept. Pharmacology, University of Aarhus. 2002 Visiting Professor, University of Bath

2011- Professor emeritus, Department of Biomedicine, Aarhus University

DOCTORAL EDUCATION EXPERIENCE

1977- Supervisor for 15 Ph.D. students, and 25 research students.

1985-2010 – Lecturer PhD-courses in Health Sciences Research, Pharmacology, Medical English

1985- External examiner for PhD-theses in The Netherlands, Sweden, UK, India, Denmark (Copenhagen and Odense)

1993-99 – Chairman, Faculty Internationalization Committee for Research Training.

1994-2002 – Member of Faculty Postgraduate Research Training Committee

2003-2011 – Director, Aarhus University Graduate School of Health Sciences

2007-2013 – Vice-President of ORPHEUS

2014- Chairman, ORPHEUS Labelling Board

ACADEMIC AWARDS & DISTINCTIONS

1986 ICI-award, Danish Society of Hypertension.

1986 Fourth Sir George Pickering Memorial Lecture, British Society of Hypertension.

1986- Honorary member of the British Hypertension Society.

1993 Folkow-award, European Society of Hypertension.

1995 Heymans Memorial Lecture, Belgian Physiological and Pharmacological Society.

1997 Folkow lecture, Symposium on Mechanisms of Vasodilatation.

1998 Novo Nordisk prize (together with Prof. Chr. Aalkjaer)

2002 Malphigi Award, European Society of Microcirculation

2004 Anglo-Nordic lecture, British Pharmacological Society

2006 Danish Lecture, XVth World Congress of Pharmacology, Beijing

MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS

1997-2003 Deputy Chairman, Danish Society of Hypertension

1998-2000 Member of Steering Committee for Danish Society for Pharmacology and Toxicology

2000- Chairman, Danish Society for Pharmacology and Toxicology

2002- Advisory Board European Council for Cardiovascular Research

COMMITTEES & BOARDS

- 1985-91 Member of Steering Committee for Danish Society of Hypertension.
- 1990-95 Member of Steering Committee for Danish Biomembrane Research Centre.
- 1992-98 Member of Steering Committee for Aarhus Cardiovascular Research Centre.
- 1993-96 Member of Scientific Committee for European Society of Cardiology.
- 1994- Advisory Board of the German Institute for High Blood Pressure Research.
- 1997-99 Secretary, European Council for Blood Pressure and Cardiovascular Research.
- 1996-2004 Member of Steering Committee for Scandinavian Physiological Society.

SELECTED PUBLICATIONS

1. **Mulvany MJ**, Halpern W: Mechanical properties of vascular smooth muscle cells in situ. *Nature* 1976;260:617-619.
2. Aalkjaer C, Heagerty AM, Petersen KK, Swales JD, **Mulvany MJ**: Evidence for increased media thickness, increased neuronal amine uptake, and depressed excitation-contraction coupling in isolated resistance vessels from essential hypertensives. *Circ Res* 1987;61:181-186.
3. **Mulvany MJ**, Aalkjaer C: Structure and function of small arteries. *Physiol Rev.* 1990, 70: 921-961.
4. Fenger-Gron J, **Mulvany MJ**, Christensen KL. Intestinal blood flow is controlled by both feed arteries and microcirculatory resistance vessels in freely moving rats. *J Physiol.* 1997; 498.1: 215-224.
5. Matrougui K, Eskildsen-Helmond YEG, Fiebeler F, Henrion D, Levy BI, Tedgui A, **Mulvany MJ**. Angiotensin II stimulates Extracellular Signal-Regulated Kinases activity in intact pressurized rat mesenteric resistance arteries. *Hypertension* 2000; 36: 617-621.
6. Buus NH, Bitcher M, Hermansen F, Sander M, Nielsen TT, **Mulvany MJ**. Influence of nitric oxide synthase and adrenergic inhibition on adenosine-induced myocardial hyperemia. *Circulation* 2001; 104: 2305-2310.
7. Nourian Z, **Mulvany MJ**, Nielsen KB, Pickering DS, Kristensen T. The antagonistic effect of antipsychotic drugs on a HEK293 cell line stably expressing human alpha1A1-adrenoceptors. *Eur J Pharmacol.* 2008 Oct 31;596(1-3):32-40.
8. Ostergaard L, Simonsen U, Eskildsen-Helmond Y, Vorum H, Uldbjerg N, Honoré B, **Mulvany MJ**. Proteomics reveals lowering oxygen alters cytoskeletal and endoplasmic stress proteins in human endothelial cells. *Proteomics.* 2009 Oct;9(19):4457-67.
9. Nourian Z, Mow T, Muftic D, Burek S, Pedersen ML, Matz J, **Mulvany MJ**. Orthostatic hypotensive effect of antipsychotic drugs in Wistar rats by in vivo and in vitro studies of alpha1-adrenoceptor function. *Psychopharmacology (Berl).* 2008 Jul;199(1):15-27.
10. Laursen BE, Dam MY, **Mulvany MJ**, Simonsen U. Hypoxia-induced pulmonary vascular remodeling and right ventricular hypertrophy is unaltered by long-term oral L-arginine administration. *Vascul Pharmacol.* 2008 Aug-Sep;49(2-3):71-6.
11. Leeya Y, **Mulvany MJ**, Queiroz EF, Marston A, Hostettmann K, Jansakul C. Hypotensive activity of an n-butanol extract and their purified compounds from leaves of *Phyllanthus acidus* (L.) Skeels in rats. *Eur J Pharmacol.* 2010 Dec 15;649(1-3):301-13.
12. Østergaard L, Honoré B, Thorsen LB, Baandrup J, Eskildsen-Helmond Y, Laursen BE, Vorum H, **Mulvany MJ**, Simonsen U. Pulmonary pressure reduction attenuates expression of proteins identified by lung proteomic profiling in pulmonary hypertensive rats. *Proteomics.* 2011 Dec;11(23):4492-502.
13. Engholm M, Eftekhari A, Chwatko G, Bald E, **Mulvany MJ**. Effect of cystamine on blood pressure and vascular characteristics in spontaneously hypertensive rats. *J Vasc Res.* 2011;48(6):476-84.
14. **Mulvany MJ**. Small artery remodelling in hypertension. *Basic Clin Pharmacol Toxicol.* 2012 Jan;110(1):49-55.
15. Eftekhari A, Mathiassen ON, Buus NH, Gotzsche O, **Mulvany MJ**, Christensen KL. Disproportionally impaired microvascular structure in essential hypertension. *J Hypertens.* 2011 May;29(5):896-905.
16. Praman S, **Mulvany MJ**, Allenbach Y, Marston A, Hostettmann K, Sirirugsa P, Jansakul C. Effects of an n-butanol extract from the stem of *Tinospora crispa* on blood pressure and heart rate in anesthetized rats. *J Ethnopharmacol.* 2011;133(2):675-86.
17. Eftekhari A, Mathiassen ON, Buus NH, Gotzsche O, **Mulvany MJ**, Christensen KL. Changes in blood pressure and systemic vascular resistance do not predict microvascular structure during treatment of mild essential hypertension. *J Hypertens.* 2012 Apr;30(4):794-801.
18. Praman S, **Mulvany MJ**, Williams DE, Andersen RJ, Jansakul C. Hypotensive and cardio-chronotropic constituents of *Tinospora crispa* and mechanisms of action on the cardiovascular system in anesthetized rats. *J Ethnopharmacol.* 2012;140(1):166-78.
19. Jansakul C, Tachanaparuksa K, **Mulvany MJ**, Sukpondma Y. Relaxant mechanisms of 3, 5, 7, 3', 4'-pentamethoxyflavone on isolated human cavernosum. *Eur J Pharmacol.* 2012 Sep 15;691(1-3):235-44.
20. Praman S, **Mulvany MJ**, Williams DE, Andersen RJ, Jansakul C. Crude extract and purified components isolated from the stems of *Tinospora crispa* exhibit positive inotropic effects on the isolated left atrium of rats. *J Ethnopharmacol.* 2013 Aug 26;149(1):123-32.
21. **Mulvany MJ**. Biomedical PhD education--an international perspective. *Basic Clin Pharmacol Toxicol.* 2013 May;112(5):289-95.
22. Buus NH, Mathiassen ON, Fenger-Grøn M, Præstholt MN, Sihm I, Thybo NK, Schroeder AP, Thygesen K, Aalkjær C, Pedersen OL, **Mulvany MJ**, Christensen KL. Small artery structure during antihypertensive therapy is an independent predictor of cardiovascular events in essential hypertension. *J Hypertens.* 2013 Apr;31(4):791-7.
23. Buus NH, **Mulvany MJ**, Eiskjær H, Christensen KL, Skov K. Renal resistance and long-term blood pressure in individuals genetically predisposed for essential hypertension: 10-year follow-up of the Danish Hypertension Prevention Project. *J Hypertens.* 2016 Jun;34(6):1170-7.
24. Engholm M, **Mulvany MJ**, Eftekhari A, Mathiassen ON, Buus NH, Christensen KL. Positive effects of aggressive vasodilator treatment of well-treated essential hypertensive patients. *J Hum Hypertens.* 2016 Nov;30(11):690-696.
25. Engholm M, Pinilla E, Mogensen S, Matchkov V, Hedegaard ER, Chen H, **Mulvany MJ**, Simonsen U. Involvement of transglutaminase 2 and voltage-gated potassium channels in cystamine vasodilatation in rat mesenteric small arteries. *Br J Pharmacol.* 2016 Mar;173(5):839-55.