

# Curriculum Vitae

## Civil status

Date of birth March 9, 1954. Danish citizenship. Married. Knight of Dannebrog since 2007.

## Education

1990 DMSci. (dr.med.), Aarhus University. Title of thesis: "Structure and Mechanism of the Sarcoplasmic Reticulum  $\text{Ca}^{2+}$  Pump: An Appraisal of the Role of Subunit Interaction".

1983 MD Aarhus University.

1976 Gold medal awarded diploma thesis in Medical Biochemistry.

## Previous and present scientific employment

2011- Professor, Dept. Biomedicine, Aarhus University

1995-2011 Professor, Dept. Physiology, Aarhus University

1989-1995 Associate professor, Dept. Physiology, Aarhus University

1988-1989 Visiting professor, Banting and Best Dept. Medical Research (DH MacLennan lab), University of Toronto, Canada

1985-1988 Assistant professor, Dept. Physiology, Aarhus University

1983-1985 Postdoctoral fellow, Dept. Biochemistry, Aarhus University

1979 EMBO Short term fellowship at the Institut de Biologie Physico-Chimique, University of Paris

## Scientific work

Research in ion transporting ATPases and other membrane transporters. Presently leader of research group investigating structure-function relationship, mechanism, and pathophysiology of  $\text{Ca}^{2+}$ -pumps and lipid pumps ("flippases") by use of site-directed mutagenesis in combination with enzyme kinetic studies. We have established state of the art quenched flow transient kinetic methodology for analysis of all the partial reaction steps of expressed ATPase mutants. Collaborations with several laboratories in North America, South Africa and Europe. By 2018 author of 144 internationally published articles. H-index 43. Invited plenary speaker at >60 international conferences and workshops.

## Memberships and administrative experience

- Member of the Editorial Board of the Journal of Biological Chemistry 2002-2007 and 2011-16
- Advisor of the International Human Frontier Science Program, Strasbourg, France, 1995-2001
- Editor of Advances in Molecular and Cell Biology: Ion pumps, 1998
- Advisor/External reviewer of the National Science Foundation, USA, 1987-1997
- Organizer of the "12<sup>th</sup> International Conference on the  $\text{Na}^+/\text{K}^+$ -ATPase and Related Cation Pumps" in 2008.
- Advisor of 3 appointment committees in UK, South Africa and USA
- Member of American Society for Biochemistry and Molecular Biology.
- Member of Biophysical Society, USA.
- External reviewer of 11 dr.med. and Ph.D. dissertations
- Chairman of the Faculty Committee for stipends at HEALTH, Aarhus University 1999-2008
- Vice chairman of the board at the Department of Physiology 1992-1997.
- Chairman or member of 12 appointment committees at Aarhus University
- Member of the steering committee at the PUMPKIN Center, Aarhus University 2007-2010
- Ad hoc reviewer of >100 manuscripts for international journals

## Teaching and supervision

Supervisor of 15 doctoral projects and 14 master and bachelor projects. Teacher and examiner in Medical Physiology at Aarhus University since 1985. Teacher at postgraduate courses at Aarhus University, Karolinska Institutet, Stockholm, and University of Copenhagen.