Brief CV: Prof. Dan-E. Nilsson

Born in Goteborg, Sweden, 1954 (civil reg nr 541113-5014) Married to Maria Abbe Nilsson, a daughter born 1995 and a son born 1998.

BSc 1977, Chemistry–Biology–Zoology, University of Goteborg. PhD 1983, Structural Zoology, University of Lund. Docent (DSc) 1987, University of Lund

Postdoctoral fellow 1983 - 1984, Department of Neurobiology, Australian National University, Canberra, Australia

Research fellow (Forskarassistent) 1984 -1989, Department of Zoology, University of Lund Lecturer (Universitetslektor) 1989 - 1995, Department of Zoology, University of Lund Professor, chair in Zoology: functional morphology 1995, Department of Zoology (from 2002 Department of Cell and Organism Biology), Lund University

Visiting Fellow: Centre for Visual Sciences, Australian National University, Canberra, 1989 –1990 Visiting Professor: School of Biological Sciences, Flinders University, South Australia, 1996 Fellow of the Institute for Advanced Studies (Wissenschaftskolleg), Berlin 1997 Visiting Professor: Vision Touch and Hearing Research Center, University of Queensland, Australia, 1999

Scientific cruises: YMER-80 to the Arctic sea 1980, and HMS Discovery to the mid Atlantic 1987

Dean (Prodekanus): Natural Sciences faculty, Lund University 2000-2006

Member of the Biology committee (BK) at the Swedish Natural Science Research Council 1997-2000

Chairman: National Professors Council for Basic Research 1996-1998

Member of Lund University Strategic Research Committee 1999

Chairman of Lund Biology Centre Planning Committee 1996-2001

Chairman of the Faculty Appointments Board for Biology and Geosciences 2000-2006

Chairman of the Faculty Library Board 2006-current

Organiser of the International Conference on Invertebratge Vision, Bäckaskog Castle, Sweden 2001

Editorial board of the Journal of Comparative Physiology A 1996-current

Editorial board of Zoomorphology 1995-1998

Editorial board of Acta Zoologica 1996-2004

Editorial advisory board of Trends in Comparative Biochemistry & Physiology 2005-current Member of Sällskapet riksdagsmän och forskare

Scientific award: The Florman award, Royal Swedish Academy of Sciences 1988

Fellow of the Royal Physiographic Society, elected 1998

Fellow of the Swedish Academy of Sciences, Stockholm, elected 2002

Fellow of the Academia Europaea, elected 2002

Fellow of the World Innovation Foundation, elected 2003

Fellow of the German Academy of Natural Scientists, Leopoldina, elected 2005

Graduated PhD students: Dr Alf-Inge Ro 1993, Dr Ann-Charlotte Järemo Jonson 1995, Dr Jan-Olof Seyer 1998, Dr Pär Brännström 1999, Dr Marie Dacke 2003, Dr Karin Nordström 2003

Current PhD students: Megan O'Connor, Ronald Petie

Postdoctors: Eric Warrant (Australia) 1990-1992, Melissa Coates (USA) 2003-2004, Charlotta Skogh (Lund) 2003-2004, Anders Garm (Denmark) 2003-current, Yves Possart (Canada) 2005

- 20 most important publications:
- Nilsson D-E (1983) Evolutionary links between apposition and superposition optics in crustacean eyes. *Nature* 302: 818-821
- Nilsson D-E, Land MF, Howard J (1984) Afocal apposition optics in butterfly eyes. *Nature* 312: 561-563
- Nilsson D-E, Land MF, Howard J (1988) Optics of the butterfly eye. J Comp Physiol A 162: 341-366
- Nilsson D-E (1988) A new type of imaging optics in compound eyes. Nature 332: 76-78
- Nilsson D-E (1989) Optics and evolution of the compound eye. In: Stavenga DG, Hardie R (eds), *Facets of vision*. Springer, Berlin Heidelberg
- Nilsson D-E (1990) From cornea to retinal image in invertebrate eyes. Trends Neurosci 13: 55-64
- Nilsson D-E, Modlin RF (1994) A mysid shrimp carrying a pair of binoculars. *J Exp Biol* 189: 213-236
- Nilsson D-E, Pelger S (1994) A pessimistic estimate of the time required for an eye to evolve. *Proc R Soc Lond B* 256: 53-58
- Nilsson D-E, Ro A-I (1994) Did neural pooling for night vision lead to the evolution of neural superposition eyes? *J Comp Physiol A* 175: 289-302
- Nilsson D-E (1994) Eyes as optical alarm systems in fan worms and ark clams. *Phil Trans R Soc B* 346: 195-212
- Nilsson D-E (1996) Eye ancestry: Old genes for new eyes. Current Biol. 6: 39-42
- Warrant EJ, Nilsson D-E (1998) Absorption of white light in photoreceptors. Vision Res 38: 195-207
- Dacke M, Nilsson D-E, Warrant EJ, Blest AD, Land MF, O'Carroll DC (1999) Built in polarizers form part of a compass organ in spiders. *Nature* 401: 470-473
- Land MF, Nilsson D-E (2002) Animal Eyes, Oxford Univ Press, 221 pp
- Gislén A, Dacke M, Kröger RHH, Abrahamsson M, Nilsson D-E, Warrant EJ (2003) Superior underwater vision in a human population of sea gypsies. *Curr Biol* 13: 833-836.
- Dacke M, Nilsson D-E, Scholtz CH, Byrne M, Warrant EJ (2003) Insect orientation to polarized moonlight. *Nature* 424: 33
- Nordström K, Wallén R, Seymour J, Nilsson D-E (2003) A simple visual system without neurons in jellyfish larvae. *Proc R Soc Lond B* 270: 2349-2354
- Nilsson D-E (2004) Eye evolution: a question of genetic promiscuity. *Curr Opin Neurobiol* 14: 407-414
- Nilsson D-E, Gislén L, Coates MM, Skogh C, Garm A (2005) Advanced optics in a jellyfish eye. Nature 435: 201-205
- Warrant E, Nilsson D-E (2006) Invertebrate Vision (eds). Cambridge University Press, Cambridge