

# CURRICULUM VITAE

**Tero Kivelä, MD, FEBO**

**Full Name** Tero Tapani KIVELÄ

**Present Positions**

- Professor and Chair, Department of Ophthalmology, University of Helsinki, Helsinki, Finland
- Chief Physician and Head, Ocular Oncology and Ophthalmic Pathology, Department of Ophthalmology, Helsinki University Hospital

**Date of Birth** January 6, 1960

**Place of Birth** Helsinki, Finland

**Nationality** Finnish

**Family**

- Married to Paula Summanen, MD, FEBO, Docent in Ophthalmology
- Daughter, Liia Matilda Maria, born 1992

**Languages** Finnish (native), Swedish (fluent), English (fluent), German (passive), French (passive)

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**Education and Training:  
Schools, Universities  
and Colleges  
Attended with  
Academic Degrees**

1979 Matriculation Examination (laudatur), Normal Lyceum of Helsinki  
1981 Candidate of Medicine (MB), University of Helsinki  
1985 Licentiate of Medicine (MD), University of Helsinki  
1987 Doctor of Medical Science (PhD), Faculty of Medicine, University of Helsinki (Academic Dissertation)  
• Thesis: Antigenic properties of retinoblastoma tissue in relation to neuronal and glial cells of the human retina. Departments of Ophthalmology and Pathology  
1992 Specialist in Ophthalmology, University of Helsinki  
1992 Docent (Reader) in Experimental Ophthalmology, University of Helsinki  
1995 Docent (Reader) in Ophthalmology, University of Helsinki

	2000	Subspeciality in Hospital Administration, University of Helsinki
	2002	Special Competence in Ophthalmic Surgery, Finnish Medical Association on recommendation of the Finnish Society of Cataract and Refractive Surgeons (FSCRS)
<b>Medical Licensure and Certification</b>	1986	State Certificate for General Practice, National Board of Medicine
	1992	State Certificate for Ophthalmology Practice, Ministry of Social Welfare and Health <ul style="list-style-type: none"> <li>• valid in the European Union, 2001-</li> </ul>
	1995	Diploma in Ophthalmology, Fellow of the European Board of Ophthalmology (FEBO) <ul style="list-style-type: none"> <li>• Examination sat in Milan, Italy</li> </ul>
<b>Military Service</b>	1986-1987	Training in the Medical Corps of the Finnish Army <ul style="list-style-type: none"> <li>• rank of Second Lieutenant, reserves</li> </ul>
<b>Previous Hospital Appointments</b>	1983-1988	Acting Hospital Physician, Department of Ophthalmology, Kotka Central Hospital, Kotka, Finland <ul style="list-style-type: none"> <li>• a total of 5 months</li> </ul>
	1984-1985	Temporary Hospital Physician, Department of Internal Medicine, Pieksämäki District Hospital, Pieksämäki, Finland <ul style="list-style-type: none"> <li>• a total of 1 month</li> </ul>
	1984-1986	Acting Hospital Physician, Department of Internal Medicine, Kotka Central Hospital, Kotka, Finland <ul style="list-style-type: none"> <li>• a total of 4 months</li> </ul>
	1985	Acting Intern in General Practice, Health Center of Eastern Uusimaa, Loviisa, Finland <ul style="list-style-type: none"> <li>• a total of 5 months</li> </ul>
	1988-1992	Resident Physician (Senior House Officer, Registrar and Senior Registrar), Department of Ophthalmology, Helsinki University Hospital, Helsinki, Finland
	1992-1994	Acting Specialist in Ophthalmology (full-time Consultant), Department of Ophthalmology, Helsinki University Hospital, Helsinki, Finland
	1995-1999	Senior Physician, Department of Ophthalmology, Helsinki University Hospital, Helsinki, Finland <ul style="list-style-type: none"> <li>• vitreoretinal diseases, ocular oncology, ophthalmic pathology, pediatric ophthalmology</li> </ul>
	1995-1999	Acting Administrative Deputy Chief, Department of Ophthalmology, Helsinki University Hospital
	1999-2004	Administrative Chief, including acting Chair, and Head of Section, Ocular Oncology, Ophthalmic Pathology, and Paediatric Ophthalmology, Department of Ophthalmology, Helsinki University Hospital
<b>Private Practice</b>	1990-	Medical Center AAVA [formerly Helsinki Medical Center, Helsingin Lääkärikeskus], Helsinki, Finland <ul style="list-style-type: none"> <li>• one evening biweekly</li> </ul>
<b>Previous Research Positions</b>	1982-	Ophthalmic Pathology Laboratory, University of Helsinki <ul style="list-style-type: none"> <li>• Research Associate, 1982-1994</li> <li>• Director, 1995-</li> </ul>
	1988	Clinical Research Associate, University of Helsinki <ul style="list-style-type: none"> <li>• a total of 4 months</li> </ul>

- 1992-1994 Acting Clinical Instructor (Senior Lecturer) in Ophthalmology, University of Helsinki
- 1994-1995 Research Fellow, Helsinki University Hospital
  - a total of 6 months
- 1996-2001 Director, Eye Cancer Research, Department of Ophthalmology, University of Helsinki
- 2001 Ranked second for the post of Professor in Applied Ophthalmology, University of Helsinki (4 applicants)
- 2002-2004 Clinical Research Fellow, Finnish Medical Foundation
  - 50% of time, with funding
- 2003-2004 Acting Professor in Applied Ophthalmology, University of Helsinki

**Research Training Abroad**

- 1996-2006 European Organization for Research and Treatment of Cancer, Belgium
  - Protocol Writing Committee, 4 studies
  - Study Vice-Coordinator, 1 study
  - Joint Stage IV Study Planning Committee of Melanoma Group and Ophthalmic Oncology Group
  - a total of 2 months spent abroad, mainly in Brussels, Belgium
- 1998 Visiting Professor, Ocular Oncology Service, Royal Liverpool University Hospital, Liverpool, United Kingdom
  - a total of 2 months

**Main Research Areas**

- Ophthalmic oncology and genetics
- Application of ophthalmic pathology in translational research
- Exfoliation syndrome
- Pediatric ophthalmology and genetics
- Vitreoretinal diseases

**Examiner, Supervisor and Opponent of Academic Dissertations**

***Supervisor/Adviser (Completed)***

1. Marita Uusitalo, MD: The HNK-1 carbohydrate epitope in the anterior segment of the eye: the inner connective tissue layer of the human **ciliary** body as a distinct element. University of Helsinki Press: Helsinki 1995
2. Jaana Hietanen, MD: Histopathological and lectin histochemical study of exfoliation syndrome. University of Helsinki Press: Helsinki 1995
3. Tiina Tyni, MD: Clinicopathological and ophthalmic features of long chain 3-hydroxyacyl-CoA dehydrogenase deficiency. Tummavuoren kirjapaino: Helsinki 1998
4. Teemu Mäkitie, MD: Prognostic indicators in choroidal and ciliary body melanoma. University of Helsinki Press: Helsinki 2001, <http://ethesis.helsinki.fi>
5. Päivi Ranta, MD: Retinal detachment after neodymium:yttrium-aluminum-garnet laser posterior capsulotomy. University of Helsinki Press: Helsinki 2002, <http://ethesis.helsinki.fi>
6. Sebastian Eskelin, MD: Development of early diagnosis for metastatic uveal melanoma. University of Helsinki Press, Helsinki 2003, <http://ethesis.helsinki.fi>.
7. Puusaari Ilkka, MD: Iodine brachytherapy for large uveal melanomas. University of Helsinki Press, Helsinki 2006, <http://ethesis.helsinki.fi>

8. Saari Jukka, MD: Digital photography in the diagnosis and follow-up of ocular diseases. University of Helsinki Press, Helsinki 2007, <http://ethesis.helsinki.fi>.
9. Tuomaala Seppo, MD: Conjunctival melanoma in Finland 1967-2000: a population-based study. University of Helsinki Press, Helsinki 2008, <http://ethesis.helsinki.fi>.
10. Al-Jamal Rana'a, MD: Relative contribution of cell proliferation and microvasculature to metastasis in malignant uveal melanoma. University of Helsinki Press, Helsinki 2011, <http://ethesis.helsinki.fi>
11. Toivonen Päivi, MD: Macrophages in regressed and progressed uveal melanoma. University of Helsinki Press, Helsinki 2011, <http://ethesis.helsinki.fi>.

### ***Supervisor/Adviser (Undergoing)***

12. Mamunur Rashid Mohammed, Evaluation of the radiation response to the tumor and adjacent eye in brachytherapy of uveal melanoma, University of Helsinki, Faculty of Medicine, registered, 2007
13. Rosi Wilska, Suonikalvoston melanooman kromosomuutokset MLPA-menetelmällä tutkittuna, University of Helsinki, Faculty of Medicine, registered 2008.
14. Anni Piirtola, Glaukooman kehittyminen, eteneminen ja hoito uveamelanoomasilmässä, University of Helsinki, Faculty of Medicine, registered, 2009
15. Aino Jaakkola, TGFBI-geenin mutaatioista johtuvat sarveiskalvodystrofiat Suomessa, University of Helsinki, Faculty of Medicine, registered, 2010
16. Veli-Matti Kuronen, Idiopaattinen orbitan inflammaatio suomalaisessa väestössä, University of Helsinki, Faculty of Medicine, registered 5.12.2013.
17. Susanna Salkola, Management and prognosis of patients with small choroidal melanomas, University of Helsinki, Faculty of Medicine, registered 2014.
18. Sanna Leinonen, Lastenreuman uveitin nykyhoito ja ennuste, University of Helsinki, Faculty of Medicine, registered 2014.
19. Kalle Nummi, Retinoblastooma Suomessa 1964-2014, University of Helsinki, Faculty of Medicine, registered 2015.
20. Salla Markkinen, Suonikalvoston melanoomalle altistavat perinnölliset tekijät, University of Helsinki, Faculty of Biological and Environmental Sciences, registered 10.4.2015.

### ***Official Opponent***

1. Blom Derk-Jan: Modulation of HLA-expression of uveal melanoma: relevance to clinical outcome. University of Leiden: The Netherlands, 1997
  - member of the promotion committee (reviewer and opponent)
2. Aho Valtteri V: Group IIA phospholipase A2 in tears of healthy and diseased eyes. University of Turku: Finland, 2003
3. Polak Marta E: Dendritic cells in melanoma. University of Leiden: The Netherlands, 2008
  - member of the promotion committee (reviewer and opponent)
4. Mathysen Danny GP: Statistical evaluation of multiple-choice assessments. Development and validation of a statistical analysis

method to monitor the European Ophthalmology exit examination, and evaluation of examination questions and methods. University of Antwerp: Belgium, 2013

- member of the promotion committee (reviewer and opponent)

5. von Holstein Sarah Linnea: Tumours of the lacrimal gland. Epidemiology, clinical characteristics and genetic profile. University of Copenhagen, Denmark, 2013
  - member of the thesis committee (reviewer and opponent)

### ***Official Reviewer***

1. Tuori Antti: Basement membrane and extracellular matrix proteins in developing, adult, keratoconus and scarred corneas: an immuno- and lectin histochemical study. University of Helsinki: Finland, 1998
2. Peuravuori Heikki J: Group IIA phospholipase A2 in tears of healthy and diseased eyes. University of Turku, Finland, 2006
3. Bronkhorst Inge: The inflammatory environment in uveal melanoma. University of Leiden, The Netherlands, 2012

### **Awards, Honours, Prizes and Grants**

- |      |   |
|------|---|
| 1986 | The Annual Rasmussen Nordic Grant (Sweden) for research in ophthalmology  |
| 1987 | The Signe Löfgren Award Grant (Finland) for an academic dissertation in ophthalmology   |
| 1991 | Kabi Pharmacia Award Grant (Finland) for the best scientific lecture, XXX Nordic Congress of Ophthalmology  |
| 1995 | Teaching Technology Competition, University of Helsinki <ul style="list-style-type: none"><li>• First Prize, category "best application in use"</li></ul>   |
| 1998 | Teaching Technology Competition, University of Helsinki <ul style="list-style-type: none"><li>• Honorary Mention, category "best application in use"</li></ul>  |
| 1999 | Santen Pharma Award Grant (Europe) for the best scientific poster, European Congress of Ophthalmology   |
| 2001 | Supervisor of the Best Student's Electives Thesis, Faculty of Medicine, University of Helsinki <ul style="list-style-type: none"><li>• Sebastian Eskelin, MB, Silmän suonikalvoston levinneen melanooman varhaisdiagnostiikan kehittäminen [Progress in early diagnosis of metastatic malignant uveal melanoma]</li></ul> |
| 2001 | Sigrid Juselius Prize for Research in Medicine (Finland) <ul style="list-style-type: none"><li>• the prize for the clinical investigator</li></ul>  |
| 2001 | Golden Badge of Honour, Ophthalmological Society of Finland   |
| 2002 | Best case presentation in ocular oncology, XXIX International Congress of Ophthalmology (Australia) <ul style="list-style-type: none"><li>• one of four prizes</li></ul>  |
| 2002 | Best paper in Duodecim, Journal of the Finnish Medical Society <ul style="list-style-type: none"><li>• one of five prizes</li></ul>   |
| 2009 | Honorary Member of the Hungarian Ophthalmological Society for advancing ocular oncology and European ophthalmology  |
| 2009 | Golden Badge of Honour, Finnish Medical Society Duodecim  |
| 2010 | Synoptik-Fondens Haederslegat (Denmark) for contributions to ocular oncology research   |
| 2013 | Maud Kuistila Prize (Finland) for teachers in science   |
| 2013 | Acta-EVER Silver Medal and EVER-Acta Lecture (Denmark and Belgium), Acta Ophthalmologica Foundation and European Vision and Eye Research Association  |

- 2014      Oncology-Pathology Section Paper Abstract Prize, European Vision and Eye Research Association (France)
  - last author (lead author Turunen Joni)
- 2015      Poster Prize, International Society of Ocular Oncology (Paris)
  - last author (lead author Wilska Rosi), one of three prizes
- 2015      First Class Knight of the Order of the White Rose of Finland

**Editorial Responsibilities and Peer Reviewer in Scientific Journals**

***Editorships and Editorial Boards***

*Acta Ophthalmologica Scandinavica*, Sweden

- Editorial Board, 2001-2008
- Section Editor, Diagnosis/Therapy in Ophthalmology, 2002-
- Co-Editor, 2008-

*Investiative Ophthalmology & Visual Science*, USA

- Guest Editorial Board Member 1999, 2001-2002

*ISRN Ophthalmology*

- Editorial Board, 2010-2013

*Asia-Pacific Journal of Ophthalmology*

- Editorial Board, 2016-

***Regular Reviewer***

*Acta Ophthalmologica*, Denmark

*American Journal of Ophthalmology*, USA

*British Journal of Ophthalmology*, United Kingdom

*Clinical and Experimental Ophthalmology*, Australia

*European Journal of Ophthalmology*, Italy

*Investiative Ophthalmology & Visual Science*, USA

*JAMA Ophthalmology* (formerly *Archives of Ophthalmology*), USA

*Ophthalmology*, USA

*Survey of Ophthalmology*, USA

***Ad hoc, selection***

*APMIS*, Denmark

*British Journal of Cancer*, United Kingdom

*Current Eye Research*, USA

*Duodecim*, Finland

*Experimental Eye Research*, USA

*Eye*, United Kingdom

*Journal of Clinical Oncology*, USA

*Melanoma Research*

*Ophthalmic Research*, Switzerland

*Ophthalmologica*, Switzerland

*Ophthalmology*, USA

*Retina*, USA

*Retinal and Eye Research*, United Kingdom

**Reviewer and Editor of Books**

International Statistical Classification of Diseases and Related Health Problems, ICD-10, Systematic Part, Finnish Translation, STAKES, Rauma 1995

- reviewer, ophthalmology

Yleislääkäarin käsikirja [Physician's Desk Reference], 3rd edition onward, Kustannus Oy Duodecim, Helsinki 1997-

- reviewer, ophthalmology

Lääketieteen termit. Selittävä suursanakirja [Medical Terms. A Dictionary with Explanations], 2nd to 6th revised editions. Kustannus Oy Duodecim, Helsinki 1997-

- chair, editorial board
- reviewer, ophthalmology

Therapia Fennica, 8-10<sup>th</sup> revised edition. Kandidaattikustannus Oy, Helsinki 1997, 2002, 2012

- coordinating editor, ophthalmology

Miniteema: Uutta silmätaudeista [Minitheme: Trends in Ophthalmology]. Duodecim, Helsinki 1998

- guest editor

Taskforce Member, IC3D Classification of Corneal Dystrophies

- first edition, 2006-2008
- second edition, 2012-2014

Ocular Oncology Task Force, American Joint Committee of Cancer, Writer and Reviewer for TNM Classification of Ocular Cancer)

- lead author for uveal melanoma, 7th edition, 2007-2009
- lead author for uveal melanoma, 8th edition, 2014-

Topic Advisory Group, Ophthalmology, International Classification of Diseases, WHO and International Council of Ophthalmology, 11th edition

- co-coordinator for oncology, 2009-

Basic and Clinical Science Course, Section 4, Ophthalmic Pathology and Intraocular Tumors, American Academy of Ophthalmology

- responsible faculty for the 2016-2017 major revision, 2014-

## **Memberships and Offices in Academic and Professional Societies**

### ***National***

- 1987- Finnish Medical Association
- Member
- 1987- Finnish Medical Society Duodecim
- Member
- Medical Terminology Committee
- Member, 1993
  - Chairman, 1994-
- 1989- The Ophthalmological Society of Finland
- Member
  - Secretary General, 1994-1995
- Educational Advisory Committee
- Member, 1993-2000
- Academic Representative in the European Board of Ophthalmology, 2001-2008
- President, 2010-2012
- 1990-95 The Finnish Society for Cell Biology
- member

### ***International***

- 1991- International Society of Ophthalmic Pathology (ISOP)
- Member

- 1991- Ophthalmic Oncology Group (OOG), formerly of the European Organization for Research and Treatment of Cancer (EORTC), and later independent
- Founder Member
  - Executive Committee and Secretary General, 1996-2002
- Metastatic Uveal Melanoma Sub-Group
- Acting Secretary, 1993-1994
  - Secretary, 1994-1996
  - Acting Chairperson, 1996-1997, 2002
- Joint Protocol Drafting Committee for Stage IV Metastatic Melanoma with EORTC Melanoma Group
- Member, 2000-2006
- Vice-Coordinator
- Protocol 88941: Recombinant alpha-2b-interferon with dacarbazine, vincristine, bleomycin, and lomustine in metastatic malignant uveal melanoma
- Writing Committee
- Protocol 88001: Randomized phase III study of adjuvant immunisation with the NA17.A2 and melanoma differentiation peptides in HLA-A2 patients with primary ocular melanoma at high risk of relapse
- Organizer, 43rd Spring Meeting, Ivalo, Finland, 2013
- 1992- European Ophthalmic Pathology Society (EOPS)
- Member
  - Organizing Secretary, 10th Joint Meeting with the Verhoeff-Zimmerman Society, Helsinki, Finland, 2011
- 1993- Nordic Academy of Ophthalmology
- Founder Member (Fellow)
- 1994-98 European Community Ophthalmic Research Association (ECORA, now merged to EVER)
- Member
- 1994-95 International Agency for the Prevention of Blindness (IABP)
- Finnish representative
- 1996- European Society for Cataract and Refractive Surgery (ESCRS)
- Member
- 1997- Association for Research in Vision and Ophthalmology (ARVO)
- Member
- 1997- Cochrane Collaboration
- Cancer Network
- Member, 1997-2000
- Cochrane Eyes and Vision Group
- Member, 1997-2000
  - Handsearcher for *Acta Ophthalmologica*
- 1997- European Association for Vision and Eye Research (EVER)
- Founder Member
- Section of Pathology and Oncology
- Program Secretary, 1998-2000
  - Chairperson, 2001-2005, 2010
- Board
- Member of the Board, 2001-2012
  - President, 2006
  - Program Secretary, 2007-2011
- EVER Foundation (EVERf)
- Member of the Board of Trustees, 2010-



- 2000- European Board of Ophthalmology (EBO)
- Academic Delegate of Finland, 2001-2008
  - Executive Committee and Vice President, 2001-2002
  - President Elect, 2003-2004
  - President, 2005-2006
  - Past President, 2007-2008
- Residency Exchange Committee
- Chairman, 2001-2003
- Continuous Medical Education Committee
- Delegate of Finland, 2000-2004
- European Board of Ophthalmology Diploma Examination
- Examiner, 1996, 2001-2011
  - Co-coordinator, 2005-2006
  - MCQ Workgroup, 2009-2013
- 2002 International Society of Ocular Oncology
- Board Member, 2002-2011
  - Chair, Constitution Committee, 2002-2005
  - General Secretary, 2005-2011
  - International Liaison Officer, 2011-2013
  - Chair, By-Laws Committee, 2014-
- 2006- European Academy of Ophthalmology
- Member X
- 2007- International Council of Ophthalmology
- Board Member 2007-2014
  - Chair, Standards Committee, 2007-2012
  - Strategic Planning Committee, 2012-2014
  - Residency Training Curriculum Rewriting Committee, ophthalmic pathology, 2010-2012
- 2012- Academia Ophthalmologica Internationalis
- Member XVIII

## Major Grants

### Academy of Finland

- Clinical Research (optic neuritis) € 264 443, 2011-2014

### Finnish Medical Foundation

- Clinical Research (eye cancer) € 150 000, 2002-2004

### HUCH Research Funds

- TYH0026, € 67 000 (Study Coordinator, eye cancer), 1996-97
- TYH8218, € 67 000 (Study Coordinator, eye cancer), 1998-99
- TYL2042, € 57 500 (Study Coordinator, equipment), 2001
- TYH1217, € 67 000 (Study Coordinator, eye cancer), 2001-02
- TYH1218, € 50 000 (Vice Coordinator, childhood uveitis), 2001-02
- TYH3203, € 120 000 (Study Coordinator, eye cancer) 2003-04
- TYH3234, € 89 832 (Vice-Coordinator, cataract surgery), 2003-04
- TYH4227, € 40 000 (Vice-Coordinator, cataract surgery), 2003-04
- TYH5210, € 110 000 (Study Coordinator, eye cancer), 2005-06
- TYH2008203, € 110 000 (Study Coordinator, eye cancer), 2008-09
- TYH2010204, € 90 000 (Study Coordinator, eye cancer), 2010-11
- TYH2012106, € 45 000 (Study Coordinator, eye cancer), 2012
- TYH2013316, € 85 000 (Study Coordinator, eye cancer), 2013-15

### Sigrid Juselius Foundation

- A total of 224 000 € (eye cancer), 2003-

### Direct support for research trainees, multiple foundations

- An average total € 50 000 per year, 2000-

## Other Grants

Paulo Foundation, Finland  
Ida Montin Foundation, Finland  
Emil Aaltonen Foundation, Finland  
Eye Foundation, Finland  
Friends of the Blind, Finland  
Eye and Tissue Bank Foundation, Finland  
Finnish Cultural Foundation, Finland  
HUCH Institute, Finland  
Luise and Henrik Kuningas Foundation, Finland

### *Grants for Advancing Teaching*

University of Helsinki  
• 1996  
Finnish Medical Society Duodecim  
• 2000

## Trustee Positions, Committees, Administrative Duties

### *University of Helsinki*

1994-95 Planning Committee, Clinico-Theoretical and Clinical Stage of "Parallel Track" (Problem Based Learning), Faculty of Medicine

1994-00 Medical Specialist Standing Committee, Faculty of Medicine

1995-98 Steering Committee, Department of Ophthalmology and Otorhinolaryngology

1996-97 Planning Committee, Clinical Stage of "Parallel Track" (Problem Based Learning)

1997 Teaching Technology Competition, University of Helsinki

1998-00 Steering Committee, Clinical Institute (dermatology, general practice, internal medicine, neurology, oncology, ophthalmology, otorhinolaryngology, pulmonary medicine, psychiatry, surgery)

2000- Collection and Acquisitions Committee, National Library of Health Sciences

2001-04 Faculty of Medicine, University of Helsinki  
• Vice Representative of Readers and Teachers

2004- National Social Security Institute  
• Board of Advisors, representative of the University of Helsinki

2006-09 Matti Äyräpää Lecture Nomination Committee  
• Representative of the Medical Faculty, University of Helsinki

2010- Appointment and Tenure Committee, 3 Tenure Track Professors  
• Chairman

2010-14 Steering Committee of the Clinical Institute  
• Vice Representative of Professors (one of four)

2010- Docenture (Reader) Promotion Standing Committee  
• Chairman

### *Helsinki University Hospital*

1995-99 Management Committee, Eye and Ear Hospital,

- 1997-99 Näe ja Kuule [Internal Journal of the Departments of Ophthalmology and Otorhinolaryngology]
  - Editorial Board Member
- 2000-08 Nuppi [Internal Journal of the Departments of Neurosurgery, Neurology, Ophthalmology and Otorhinolaryngology]
  - Editorial Board Member, 2000-2001
  - Editor, 2002-2004
- 2003-08 Management Committee, Department of Neurology, Neurosurgery, Ophthalmology and Otorhinolaryngology,
- 2004-08 Administrative and Financial Chair, Department of Ophthalmology (rotating term)
- 2009-14 Chief Medical Officer, Department of Ophthalmology
- 2015- Management Committee, Department of Ophthalmology

***National***

- 1993- Eye and Tissue Bank Foundation
  - Vice-Chairman, Board of Directors, 1993
  - Chairman, Board of Directors, 1994-1998
  - Member of the Board, 1999-
- 1996- Mary and Georg C. Ehrnrooth's Foundation
  - Member, Board of Directors
- 1997- National Patient Insurance Complaints Board
  - Permanent Advisor in Ophthalmology
- 1998-00 Instrumentarium Corp (incl. Datex-Ohmeda), a listed company in medical technology, the Helsinki Stock Exchange
  - Member of the Board
- 2001- National Authority for Medicolegal Affairs
  - Permanent Advisor in Ophthalmology
- 2004- National Social Security Institute
  - Board of Advisors, representative of the University of Helsinki
- 2005- State Treasury
  - Permanent Advisor in Ophthalmology, Insurance Division
- 2007- The Eye Foundation
  - Member, Board of Directors
- 2005-12 Finnish Medical Foundation
  - Member, Board of Directors, 2007-2010
  - Chair, Board of Directors, 2011-2012

**Formal Pedagogic Training**

- 1993-94 Pedagogics in Academic Medicine
  - 6 weeks (adults as students, experimental learning cooperative learning, problem based learning, efficient lecturing, scientific thinking, course planning, evaluation of teaching and learning results)
- 1994 Guiding Academic Writing
  - 1 day (the neophyte and the professional as writers, soft feedback, learning by writing, motivation and writing)
- 1994 Evolving Examination Methods
  - 1 day (pedagogic potential of exams, hinders to learning, planning exams, alternative examination methods)

- 1994      Newscasting Science
  - 2 days (the critical scientist meets the dramatic reporter, working with journals and television, how the mass media functions, editing material for the mass media, being interviewed)
- 1995      Producing Educational Material to the World Wide Web
  - 2 days (basic and advanced methods)
- 1995-1996      Portfolio Course
  - 4 weeks (academic teaching portfolio as a tool of professional development, developing teaching on the basis of self assessment, portfolio as a method of self assessment and as a merit record, evaluation and peer review of a teaching portfolio, portfolio guiding and consulting)
- 1996      Teacher Tutor Course
  - 2 weeks (basics of tutoring, conception of learning and the self-directed learner, from a teacher to a tutor, tutoring skills and directing learning - sociodrama exercises, the planning of and ways of executing your tutoring)
- 1996      Interactive Courses in the Web
  - 3 days (internet and interactive teaching, mailing lists, news agents, interactive forms, automated servers, Lotus notes)
- 2008      Program Directors Course, International Council of Ophthalmology, Portoroz, Slovenia
  - 2 days (faculty)
- 2012      Program Directors Course, International Council of Ophthalmology, Helsinki, Finland
  - 2 days (co-organiser and faculty)

**Practical Pedagogic Experience**

***Undergraduate, Basics of Ophthalmology***

- 1992-94      Clinical Examination Methods, Medical School 3rd year students
  - Faculty
- 1992-93      Basic Ophthalmology, Dental School 3rd year students
  - Faculty
- 1992-      Basic Ophthalmology, Medical School 4th year students
  - Faculty

***Undergraduate, Electives in Ophthalmology***

- 1988-      Electives, Clinical Ophthalmology, 2-year instruction course, Medical School 3rd to 6th year students
  - Director and faculty
- 1988-      Electives, Research Projects, 2-year 1-to-1 instruction, Medical School 3rd to 6th year students

***Undergraduate, Interaction Skills***

- 1996-01      Simulated Patients, Interaction Skills, Medical School 2nd year students
- 1999-01      Simulated Patients, Breaking Bad News, Medical School 2nd year students

### ***Postgraduate Resident Training, University of Helsinki***

- 1992- Clinical Ophthalmology, 1st and 2nd year residents  
• one-to-one teaching in refraction, vitreoretinal diseases, ophthalmic oncology, pediatric ophthalmology
- 1992- Ophthalmic Pathology  
• one-to-one teaching, 1st to 3rd year residents
- 1996- Fundamentals of Ophthalmology, weekly workshops, 1st to 3rd year residents  
• coordinator, 1996-1998  
• faculty, ophthalmic pathology, hospital administration, basic sciences, optic, retina, oncology, 2000-

### ***Postgraduate Resident Training, National***

- 1994- Annual National Instruction Course for Finnish Residents in Ophthalmology  
• faculty, 1994, 1997, 2006, 2010, 2014  
• course director, 1995, 2001, 2005, 2009, 2013

### ***Continuing Medical Education***

- 1989- Clinical Pathological Conferences, twice yearly, Department of Ophthalmology  
• Moderator
- 1996- Finnish General Medical Congress [Lääkäripäivät]  
• Course moderator, 1996  
• Course director, 1997, 2000  
• Faculty, 1998, 2016
- 1998- Annual Congress of Young Physicians [Nuorilääkäripäivät]  
• Faculty 1998, 2001
- 1996- Basic Science Assessment Test for Ophthalmologists, International Council of Ophthalmology  
• National Invigilator, 1996  
• Local Organiser, 1997-
- 1997- European University Professors of Ophthalmology (EUPO), Annual Teaching Course  
• faculty 1997, 2008, 2014
- 1997- European Board of Ophthalmology Diploma Examination  
• examiner, 1997, 2001-2011  
• coordinator, 2005-2008  
• invigilator, 2009-2011, 2013
- 2013- Venice Ophthalmology Summer School, Italy (one week course annually for young European specialists in ophthalmology)  
• founding faculty 2013-

### **Involvement in Pedagogic Planning and Administration**

- 1993- The Ophthalmological Society of Finland, Educational Advisory Committee
- 1994- Planning Committee, Problem-Based Learning
- 1996- Clinicotheoretical and Clinical Stage, 1994-1995  
Clinical Stage, 1996  
• creating a detailed model course on cardiovascular diseases, to be used as an example of problem-based learning as part of the forthcoming renovation of the medical school curriculum

- 1994- Medical Specialist Committee, University of Helsinki
  - coordinating and planning postgraduate training in medicine, and in making decisions about curricula, teaching facilities, evaluation of teaching, and administrative affairs
- 2003-08 Education Committee, European Board of Ophthalmology
  - member
- 2008 Residency Review Committee, European Board of Ophthalmology
  - chief reviewer, accreditation of the Residency Training Programs, University of Budapest and University of Pecs, Hungary

**Pedagogic Prizes**

- 1996 Teaching Technology Prize Competition, University of Helsinki
  - First Prize, category "best application in use"
- 1998 Teaching Technology Prize Competition, University of Helsinki
  - Honorary Mention, category "best application in use"

**Publications**

- 176 Original publications
- 13 Editorials
- 25 Reviews
- Chapters in 20 books
  
- Hirsch Index 33 (from Web of Science)  
43 (from Google Scholar)

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