



CURRICULUM VITAE

PIRKKO TUULIKKI VIHKO, M.D., Ph.D., Professor

Birth	October 7, 1946, Finland	
Main positions		
Professor in Clinical Chemistry Chief physician	University of Helsinki HUSLAB, Hospital District of Helsinki and Uusimaa	1.4.2010- 1.4.2010-
Professor in Biochemistry	University of Helsinki	1996- 31.3..2010
Professor (part time) in Clinical Chemistry/ Medical Biotechnology	University of Oulu	1998-2007
Project leader of Biocenter Oulu (Center of Excellence ad 1999)	University of Oulu	1987-2007
Director, World Health Organization Collaborating Centre for Research on Reproductive Health	University of Oulu	1996- 2008
Director, Research Center for Molecular Endocrinology	University of Oulu	2001-2008
Educational background		
High school	Kuusamon yhteiskoulu, Kuusamo	1966
M.D.	University of Oulu	1973
Ph.D.	University of Oulu	1978
Docent (Senior Lecturer) in Applied Enzymology, in Clinical Chemistry	University of Oulu	1981, 1988
Specialist Physician in Occupational Health and Medicine	The Medical Board	1985
Specialist Physician in Clinical Chemistry	The Medical Board	1988
Specialist Physician in Laboratory	The Medical Board	1988
Investigations in Industrial Toxicology Competence in the administrative board of specialist physicians	The Medical Board	1988
Foundation Fellowship in the Speciality of Clinical Chemistry	The European Board of Medical Biopathology	2004
University Pedagogic Courses (tot. 21 credits)	Universities of Oulu and Helsinki	1997, 2002
Studies on Economy and Law (3 credits)	University of Helsinki	2002
Course:Teaching Through English	University of Helsinki	2007
Short term postdoctoral visits:		
In large-scale animal cell culture	University of Minnesota, USA	1990-1991
In x-ray crystallography	University of Uppsala, Sweden	1992-1993
Previous professional appointments		
Senior scientist position	Academy of Finland	2002-2003
Assistant Chief Physician, Laboratory Management	Oulu University Central Hospital, Laboratory	1988-1998
Official Examiner in the subspeciality of Laboratory Investigation in Industrial toxicology	University of Oulu	1989-1999

Official Examiner in the speciality of Clinical Chemistry	University of Oulu	1993-1998
Official Examiner in the speciality of Clinical Chemistry and Clinical Biochemistry	University of Helsinki	2010-
Professor in Clinical Chemistry	University of Oulu	1993-1998
Acting Chief Physician	Oulu University Hospital, Laboratory	1993-1998
Head of the Department of Clinical Chemistry	University of Oulu	1993-1998
Senior Scientist	The Finnish Cancer Foundation	1992
Senior Scientist	The Finnish Cancer Foundation	1989
Senior Scientist	The Academy of Finland	1986
Chief Physician	Nokia Inc.	1975-1987
Member of the Executive Board	Nokia Inc., Northern-Finland	1980-1985

International Federation of Clinical Chemistry and Laboratory Medicine

- Committee of Molecular Biology Techniques in Clinical Chemistry: Member 1989-93; Chairperson 1994-98; Consultant		1999
- Member of the Work Group of Standardization of PSA assays		1995-1999
- Board member of the Education and Management Division		1999-2000
- Committee of Molecular Biology Teaching, Chairperson		1999-2000

International Union of Biochemistry and Molecular Biology

- Committee on Education: Consultant for Standards for the Ph.D. Degree in the Molecular Biosciences		1999
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University of Oulu

- Acting Member and Member of the Board of the Faculty of Medicine		1992-1999
- Member of the Committee for Educational Restructuring, Faculty of Medicine		1992-1997

University of Helsinki

- Member of the Board of the Faculty of Science		1998-2000
- Vice-member of the Board of the Faculty of Biosciences		2003-
- Member of the Collegio of the University		2003-2006

Representative of Finland

- EC Biotechnology Meeting, France		1988
- WHO, Meeting of the Policy and Coordination Committee, Special Programme of Research, Development and Research Training in Human Reproduction, Switzerland		1989
- EC Biotechnology Meeting, Germany		1989
- WHO, Meeting of the Policy and Coordination Committee, Special Programme of Research, Development and Research Training in Human Reproduction, Switzerland		1992
- WHO Meeting of WHO Collaborating Centres, Temporary Advisor, Czech Republic		2007

Organizer or moderator of international courses and congresses

- EU-COMETT, Module II: Modern biotechnological tools in industrial R & D. Recombinant protein production and structure in industrial R & D, 10-12 June, 1993, Oulu, Finland (chairman and moderator)		1993
- EU-COMETT, Module III: Recombinant protein production, cell culture and structure assignment in industrial R & D, 1-4 March, 1995, Oulu, Finland (chairman and moderator)		1995
- Biochemische Analytik '95, 14th International Congress and 1st Leipzig Fair for Biochemical Analysis, 25-28 April, 1995, Leipzig, Germany: Symposium: Molecular Biology in Clinical Chemistry and Laboratory Medicine (chairman and moderator)		1995
- Laboratory Medicine '95, 11th IFCC European Congress of Clinical Chemistry, 2-7 July, 1995, Tampere, Finland: Symposium 5: Biology and markers of prostatic cancer (co-chairman and moderator) Symposium 12: Standardization of molecular biology techniques (co-chairman and moderator)		1995

- XXVI Nordiska kongressen I klinisk kemi, Turku, 6-10 June, 1998: Member of the Scientific Committee; Chairperson of the symposium 'Recombinant antigens and antibodies' 1996-1998
- IFCC Roche Conference: Human Genomics: The Basis of the Medicine of Tomorrow, Singapore, 15-18 March 1998: Member of the Steering Committee; Director of the training course 1997-1998
- 1st International Congress of Clinical Molecular Biology (CMB), 6-11 June 1999, Fortezza da Basso, Firenze, Italy: Member of the Scientific Committee; Chairperson and moderator of a symposium 1998-1999
- IFCC-Roche Conference: Human Genomics: The Basis of the Medicine of Tomorrow, Kyoto, Japan, 16-19 April 2000: Member of the Board of the Molecular Biology Training Course 1999-2000
- 9th Congress of the Arab Federation of Clinical Biology, New Trends in Molecular Diagnosis in Medicine, Rabat, Morocco, 3-6 May 2000: Consultant of the Molecular Biology Training Course 1999-2000
- XXVII Nordic Congress in Clinical Chemistry, Bergen, Norway, June 2000: Member of the Scientific Committee 1999-2000
- International Conference on Diet and Prevention of Cancer, 28 May – 2 June, Tampere, Finland: Chairperson of the Symposium 1999
- Official Opening of the Seminar “Trends from Finland in Modern Laboratory Medicine” 13-15 April, Guangzhou, China (organized by FinPro/Suomen Ulkomaankauppaliitto) 1999
- EFCC Symposium: Education in Clinical Chemistry and Laboratory Medicine organized by Czech Society for Clinical Biochemistry. Prague, Czech Republic, Invited lecturer 2012

Evaluator of international science programmes

Evaluator of EU-grant applications for Industrial and Material Technologies: Standards, Measurements and Testing Programme 1995; Evaluator for EU-grant applications for Cell Factory: Quality of Life and Management of Living Resources 2001; Evaluator of Israel Science Foundation grants 2003; Evaluator of The Wellcome Trust grants 2003; Evaluator of the Swiss National Science Foundation 2004; Membership of Expert Evaluators Panel for EU-grant applications NMP-TI-4 under Priority 3 2005; Expert Evaluator for EU-project: Structuring the European Research Area Anticipation of Scientific and Technological Needs, Basic Research, FP6-2004-NEST-C-1 2005; Invited expert of the Ministry of Education of Italy (MIUR) Projects: Cellular Physiology Interactions, Signal Transduction and Urology 2005 -; Evaluator of Cancer Research UK 2006; Evaluator of Association for International Cancer Research, UK 2007; Evaluator of European Research Council Starting Grants, Belgium 2007; Invited Referee of European Research Council in Peer Review evaluations 2008-2013.

Others

Vice-Member of the Advisory Board of the Oulu Regional Institute of Occupational Health 1995-97; Referee for the Gábor-Szasz Award (German award in clinical chemistry) 1994; Reviewer of EVO projects at Kuopio University Hospital 1999-2001; Representative of the Delegation of the Finnish Academies of Science and Letters for the Committee for Eurocores (European Science Foundation): Science of protein production 2002-03; Scientific Advisor of the Scandinavia-Japan Sasakawa Foundation 2005-; Advisory Broad Member of GlaxoSmithKline 2006.

Member of editorial board of two scientific journals

1996-

Reviewer of 20 international scientific journals

Scientific congresses

Speaker in about 90 international scientific congresses, in about 40 as invited speaker. Invited plenary lecturer in The III International Congress of Molecular Medicine, Istanbul, Turkey, May 2009.

Supervisor of doctoral theses (23)

Maritta Perälä-Heape 1991; Pirkko Henttu 1992; Pirjo Virkkunen, Leena Hakalahti 1993; Riitta Kurkela, Katja Porvari 1995; Yun-shang Piao, Terhi Puranen, Lateef Akinola, Mika Mustonen 1997; Jussi Elo, Petra Jernvall 1998; Minna Miettinen 1999; Pasi Nokelainen 2000; Markku Vaarala 2001; Jingdong Shan, Annakaisa Herrala, Helena Kaija, Kari Juntunen 2002; Olayiwola Oduwole 2003; Lila Patrikainen, Yan Li 2004, Päivi Härkönen 2005

Supervisor of licentiate theses (6)

Matti Høyhty 1986; Leena Hakalahti 1990; Maritta Perälä-Heape, Timo Solin 1991; Pirkko Henttu 1992; Pirjo Hedberg 1996

Supervisor of pro gradu works (21)

Pekka Kallunki 1987; Timo Solin 1988; Soile Leskelä 1990; Laura Kvist, Pirjo Hedberg, Minna Ruokonen; Ritva Pulkkinen, Terhi Puranen, Päivi Taavitsainen 1993; Auli Karhu 1994; Annakaisa Herrala, Päivi Härkönen 1997; Svea Törn 2000, Pia Soronen 2003; Anna Rönkä, Piritta Jäntti, Riikka Wirkkala 2005; Katariina Alagrund 2007; Susanna Palmén, Astrid de Haan, Anna Raunio 2008

Referee for four docent nominations; Opponent task of three doctoral theses; Reviewer of 10 doctoral theses**Major research grants and awards**

Public Health Service, The National Cancer Institute (NIH), USA Grant No 1R26CA29199	FIM 350000	1981-1984
Sigrid Jusélius Foundation	€ 835.000	1985-2012
Finnish Cancer Foundation	€ 201.000	1987-2008
Ministry of Education	€ 117.600	1993-1994
Award of the Novel Scientific Work of the Deaconess Institute of Oulu		1994
Nordic Network on Physiological Engineering, NordPhys, partner (Network funding)	NOK 1.155.000	1997-2000
TEKES	€ 1.340.235	1988-2005
EU Project funding	€ 377.000	1996-2005
Academy of Finland	€ 2.914.000	1986-2013
EVO money, Oulu University Hospital	€ 1.114.813	1994-2010
EVO money, HUS	€134.000	2011-2012

Scientific and societal impact of research

192 peer-reviewed articles, sum of times cited: **5485**; average citations per item: 28.72; ten most cited articles: cited totally **1436** times, average times cited **7.72** annually; h-index: **43** (6.5.2012)

Patents

P. Vihko, 1980: U.S. 4205130, Method of purification of human prostatic acid phosphatase
P. Vihko, 1988: UK. GB. WO8805537, Conjugate of biological molecules and a chelating agent
P. Vihko, 1999: U.K. GB 2302874B, Recombinant human prostate specific antigen
P. Vihko, 2000: U.S. 6,140,468, Recombinant human prostate specific antigen
P. Vihko, 2001: U.S. 6303361B1, Human glandular kallikrein-1 (hK2)
P. Vihko, 2006: US2006057628, Methods for Prognosticating the Progress of Breast Cancer and P.
P. Vihko, 2007: Compounds Useful for Prevention or Treatment Thereof.
 US2007292350, Method for testing a compound for a therapeutic effect and a diagnostic method.
 M. Zylka and **P. Vihko**, 2007: U.S. Provisional Patent Application for Prostatic Acid Phosphatase for the Treatment of Pain. OTD 07-0106 / 421/215 PROV
 M. Zylka and **P. Vihko**, 2008: International application for Phosphatase for the Treatment of Pain. 421/215 PCT, Application no. 61/003,205
 M. Zylka and **P. Vihko**, 2010: U.S. patent Applicant No. 12/743, 110 for Prostatic acid phosphatase for the treatment of pain based on International Application No. PCT/US08/12849
P. Vihko, 2011: EP1812586B1, Method for testing a compound for a therapeutic effect
P. Vihko, 2011: US7919671, Method for testing a compound for a therapeutic effect
 M. Zylka and **P. Vihko**, 2012: EP08851001.1, Prostatic acid phosphatase for the treatment of pain
P. Vihko, 2012: US-OP102368