

Curriculum vitae

Aarno Palotie

Date and place of birth, nationality, current residence

Date and place of birth: 14th December 1955, Helsinki

Citizenship: Finnish

Current residence: Finland and USA

Education and degrees awarded

M.D., University of Oulu, Finland

Sept 1981

Ph.D., University of Oulu, Finland

May 1983

Specialist in Clinical Chemistry (Chemical Pathology): University of Helsinki, Finland

Oct 1988

Docent (eqv. to Senior lecturer) in cell biology: University of Oulu, Finland

April 1989

Other education and training, qualifications and skills

Research Associate (PhD student) University of Oulu Depts. of Anatomy and Medical Biochemistry, Collagen Research Unit led by Prof. Kari Kivirikko.

1976-1978

Research Associate University of Medicine and Dentistry of New Jersey,

Dept of Biochemistry, in the collagen research group of Prof. Darwin J. Prockop

1978-1979

Research Associate (PhD student and postdoc) University of Oulu Depts. of Anatomy and Medical Biochemistry, Collagen Research Unit led by Prof. Kari Kivirikko

1980-1984

Current positions

Professor, Research Director, Institute for Molecular Medicine Finland, FIMM, University of Helsinki

12/2012-

Associate Member, Broad Institute of MIT and Harvard

2014-

Research Scientist, Group Leader, Massachusetts General Hospital, USA

6/2013-

Previous work experience

Research Fellow (part time), University of Helsinki, Recombinant-DNA laboratory of the University of Helsinki (now Institute of Biotechnology, University of Helsinki)

1985-1987

Residency training, Institute of Occupational Health, Finland, Laboratory of Biochemistry

1985-1986

Residency training, University Central Hospital of Helsinki Laboratory

1987-1988

Specialist, equivalent to senior consultant, Univ Central Hospital of Helsinki, Laboratory,

1989-2006

Head of the Molecular Genetic Laboratory 1993-2006 (several leaves of absence)

Univ Central Hospital of Helsinki, Meilahti Hospital Laboratory,

acting Deputy Chief Physician

1990-1991

Univ Central Hospital of Helsinki, Central Administration, Assistant Chief Physician

1992-1993

Director, Clinical Research Institute of the University Central Hospital of Helsinki

1992-1993

Clinical Research Fellow, Academy of Finland,

1993-1994

Professor of Molecular and Cell Biology, University of Helsinki, Institute of Biomedicine

1997-2000

Professor (In Residence), Dept. of Pathology and Laboratory Medicine, UCLA,

Los Angeles, California

1998-2004

Joint appointment, Professor, Dept. of Human Genetics, UCLA

2000-2004

Professor, Adjunct, Dept. of Human Genetics, UCLA

2004-2005

Professor, Director of the Finnish Genome Center, University of Helsinki

2002-2009

Acting Professor (part time), Department on Clinical Chemistry, University of Helsinki

2009-2010

Senior Scientist, Institute for Molecular Medicine Finland, FIMM, University of Helsinki

2008-2012

Visiting Professor (with a right to hold grants), Broad Institute of MIT and Harvard

2005-2013

Professor, Senior Investigator, Senior Group Leader, The Wellcome Trust Sanger Institute

2007-2013

Major Ongoing Research funding

Grants in Institute for Molecular Medicine Finland, FIMM; University of Helsinki, Finland:

Sigrid Juselius Foundation, Finland, total €500,000	2011-2020
Academy of Finland Finnish Distinguished Professor programme, host for Professor Leif Groop (Lund University), total €994,000	2012-2017
Academy of Finland, Elucidating the genetics of migraine susceptibility. total €467,994	2015-2019
Academy of Finland, eSISu-eInfrastructure of Finnish sequence data of researchers, €297,500	2016-2017
Finnish Foundation for Cardiovascular Research, €140,000	2013-2017
NIH/RFA-HL-12-007, Co-PI: Genomic and Metabolomic Profiling of Finnish Familial Dyslipidemia Families, 934,435 USD	2012-2018
CENTER-TBI, Collaborative European NeuroTrauma Effectiveness Research in TBI, EU-FP7-602150, total €1,391,982	2014-2020
NIMH/1U01MH105666-01(Palotie, Co-PI), total €151,306	2014-2017
Genomic strategies to identify high-impact psychiatric risk variants	
Pharma Alliance Project, Biogen/Eisai/Merck/Pfizer (precompetitive) (Palotie, Daly, Vartiainen), total 1,000,000 USD (300,000USD to FIMM)	2015-2016
Astra Zeneca, Combining genetic and electronic health record data of the Finnish population for improving drug discovery projects, total 730,000USD	2016-2017
SUPER Psychiatric Research, Broad Stanley Center (Palotie, Hyman) total 10 Million USD	2015-2018
COSYN (Sullivan), European Commission H2020	
Comorbidity and Synapse Biology in Clinically Overlapping Psychiatric Disorders € 225,000	2016-2020
NIASC, Nordforsk, The Nordic Information for Action eScience Center €638,870	2014-2018
FinnGen project with TEKES and seven Pharma companies, total €59 millions	2017-2022
Academy of Finland Center of Excellence in Complex Disease Genetics, €330 791	2018-2020

Grants in Massachusetts General Hospital and Broad Institute, USA

NIMH/1U01MH105666-01 (Palotie PI), total 153,360 USD	
2/2 Genomic strategies to identify high-impact psychiatric risk variants (MGH)	2014-2018
NIMH/5U01MH105578-02 (Palotie, PI), total 947,146 USD	
1/2 Genomic strategies to identify high-impact psychiatric risk variants (Broad)	2014-2018

Leadership and supervision:

Examiner for 19 doctoral theses	1992-
Member of 6 doctoral thesis committees (UCLA)	1998-
Official opponent for 17 doctoral dissertations (Finland, Sweden, Netherlands, Estonia, United Kingdom, Hong Kong)	1993-
Examiner for docent competence, 6 times	1995-
Supervisor of 22 completed doctoral Ph.D. thesis: Tiina Heliö 1992; Jarkko Ihalainen 1995, Mervi Heiskanen 1996; Maris Laan 1997; Hanna Mikkola 1997; Nina Horelli-Kuitunen 1998; Ulla Wartiovaara 1999; Jaakko Kaukonen 2000; Elina Virolainen 2000; Jakob Stenman 2002; Harri Visapää 2003; Daniel Chen 2003; Gregory Oswell 2005; Mari Kaunisto 2005; Päivi Tikka-Kleemola 2009; Verner Anttila 2010; Emilia Gaal 2012; Virpi Leppä 2013; Mitja Kurki 2013; Olli Pietiläinen 2014, Mikko Muona 2015, Tiia Luukkonen 2017	
16 evaluations for professor competence in Europe, USA and Australia	1998-
At present 5 graduate students under guidance	

Awards, prizes and honours

Helsinki Science Prize	2016
Knight 1 st class, Finnish Order of the White Rose	2016
Pharma Industry Finland Prize	2017

Other academic merits:

Finnish Society of Connective Tissue Research	1990-1992
Finnish Society for Clinical Chemistry	1993-1997
Member of the Nordic Committee of Education in Clinical Chemistry	1994-

National (Finland) Library of Health Sciences	1992-1995
Scientific Committee of Laboratory Medicine '95, 11th IFCC European Congress of Clinical Chemistry	1995
Expert of biotechnology in the Biotechnology working party of the European Agency for Evaluation of Medicinal Products (EMA, London, corresponds to FDA in US)	1995-1998
Finnish Society of Medical Genetics	1996-1998
Finnish Society of Medical Genetics, President	1997-1998
Member of Study section, shared Instruments for Nucleic Acid Analysis, NIH	2002
Board member, Helsinki Biomedical Graduate School	2002-
Board member, Helsinki Computational Biology Graduate School (Combi)	2002-
Steering Group Member, GenomEUtwin research program	2002-2007
Steering Group Member, European Science Foundation program for Functional Genomics	2002-2007
Member of Study section, shared Instruments for Nucleic Acid Analysis, NIH	2002, 2003
Member of Evaluation Panel, Norwegian Functional Genomics Initiative	2003
Member of Evaluation Panel, Academy of Finland, (two times)	2004
Member of Study section, Assays and Methods Development, NIH	2004, 2005
Chair of Evaluation Panel, Academy of Finland	2005
Member of Evaluation Panel, Wallenberg Consortium North, Sweden	2005, 2008
Chair of Evaluation Panel, The Belgian Science Policy BELSPO: Evaluation of Belgian Research Programme on Fundamental Research in Networks	2005
Member of International Review Committee of the LUMC, University of Leiden	2005
Member of Evaluation Panel, The Swedish Research Council for Medicine	2006
Ad hoc expert, The Belgian Science Policy BELSPO: Evaluation of Belgian Research Programme on Fundamental Research in Networks	2006
Chair of Evaluation Panel, Uppsala University: Quality and Renewal Evaluation	2007
Biocentrum Helsinki, Board member	2007-2008
Estonian Research Council, External Evaluation Expert	2007
Expert evaluator of professorship at the Uppsala University	2008
Board Member of the Scientific Advisory Board for SciLifeLab, Uppsala	2010-
Member of the evaluation committee; Midterm review of the Netherlands Genomics Initiative	2011
Chair, European Science Foundation Forward look of Personalized Medicine	2011-
Member of SAB for EpiPGX, European Epilepsy Pharmacogenetics Program	2011-
Mentor, The Leena Peltonen School of Human Genomics, Hinxton, Cambridge, UK	2011-
Member of Committee to advice on seek for a new chair for the Department of Human Genetics in Leiden University Medical Center	2012
Steering Committee Member and Reviewer, The Center of the Translational Genomics, The Estonian Genome Center, the EU FP7 program OPENGENE and the Center of the Translational Genomics	2012
Member of the review board for the California Institute for Regenerative Medicine (CIRM)	2012-
Member of Interest group, Board of Medical Research Center (MRC), University of Oulu and Northern Ostrobothnia Hospital District, Finland	2013-2016
Member of the review board, the Stem Cell Control Sample Advisory Group, California Institute for Regenerative Medicine	2013
Member of the review board, the Stem Cell Genomics Centers of Excellence Awards California Institute for Regenerative Medicine	2013
Member of the Pfizer Genetics Scientific Advisory Panel	9/2014-
The Shoolman Lectureship of the Harvard Reproductive Endocrine Sciences Center and Endocrine Grand Rounds at the Massachusetts General Hospital	11/2014
Member of the Working Group, National Genome Strategy, the Ministry of Social Affairs and Health, Finland 12/2019	9/2014-
Member of the Editorial Board of Human Genetics	2015
Frontiers in Genetics, Chief Editor	2018
Member of Astra Zeneca Genomics Advisory Board	2018-

Ad hoc reviewer of scientific journals:

Cell, JCI, Molecular Genetics & Genomic Medicine, Human Genetics, Nature Neuroscience, The Lancet Neurology, The European Journal of Human Genetics, Neuron, PLoS Genetics, Psychiatric Genetics, Molecular Psychiatry, Eur J Neurology, Journal of Medical Genetics, American Journal of Human Genetics, Nucleic Acid Research

Merits in science communication and expert assignments in the media

The independent, UK (8/2013), Deutsche Welle, Germany (8/2013),
 Iltasanomat (several during 2011-2017), National Radio channel: YLE Areena (9/2014),
 Finnish newspapers: Helsingin sanomat (several 2011-2017), Kauppalehti (9/2015, 5/2016)
 Savon Sanomat (3/2016, 7/2016), Karjalainen (7/2016), Keski-suomalainen (3/2016, 7/2016)
 Yliopisto magazine (2015), Kauppalehti (2015), Suomen Kuvalehti (6/2016), National radio "Radio
 Finland" (1/2012, 12/2012), Finnish TC program "Prisma Studio" (11/2010), National TV news (4/2016),
 YLE TV Channel 1, YLE Puhe, Radio Channel (12/2017), YLE Puhe, Radio Channel (1/2018), YLE
 Radio one (8/2018)

Selected Keynote Lectures and Invited Plenary Talks during past 5 years:

Keynote speaker: International Symp of NODAI Genome Research Center, Japan	2012
V International meeting on complex traits and genetic isolates, Italy	2012
Computational Genomics lecture series, Oxford, UK	2012
16th European Federation Neurological Societies Congress, Sweden	2012
15th European Congress on Biotechnology, Turkey	2012
International Congress for Psychiatric Genetics, Germany	2012
Special UCLA Human Genetics Academic Retreat in the honor of Leena PELTONEN	2012
Culminatum Innovation seminar, Finland	2013
The Leena Peltonen School of Human Genomics, UK	2013
GM2 Conference, Greece	2013
University of Würzburg, Germany	2013
MPG Lecture, Broad Inst, USA	2014
GeneForum 2014, Estonia	2014
Keynote speaker: American Headache Society Annual Scientific Meeting	2014
EASD 50th Annual Meeting, Vienna	2014
EuroBioForum 3rd Annual conference on Personalized Medicine and Care	2014
Aalto Academy Summit, Finland	2014
SLUSH Summit, Finland	2014
WCPG Meeting, Denmark	2014
The Shoolman Lectureship of The Harvard Reproductive Endocrine Sciences Center and Endocrine Grand Rounds at the MGH	2014
NIASC Training Course: Mining Data in Complex Disease Genetics, Helsinki	2015
Lecture at Pfizer, UK	2015
European Society of Human Genetics, Glasgow	2015
Genetic Epidemiology in Homogenous Populations Symposium, France	2015
3rd BBMRI-LPC Workshop "Biobanks, data and Access"	2015
Personalized Medicine Symposium, Finland	2015
Brain Diseases - why to invest in Finland	2015
Studying the Genomic Variation that underlies health and disease: the unique contribution of the Nordic Health System, Cold Spring Harbour	2016
Argumenta lecture, Oulu, Finland	2016
LUDC: Ten years of progress: From heterogeneity to personalized treatment, Sweden	2016
Precision Medicine in the Nordic Countries – Biobanks and Registries Hospital Records, Norway	2016
Whole Genome Sequencing for Psychiatric Disorders Consortium, Boston	2016
Nordic –American Life Science Conference, New York	2016
BioData World West Conference, San Francisco	2017
Stanford University, San Francisco	2017
Finnish Parliament, Finland	2018
European Commission, Brussels	2018
Shanghai, Pan Asia Symposium	2018
ASHG, San Diego	2018

PUBLICATIONS

478 publications to date (15 Jan, 2019) and 41 review articles and book chapters.