**CV Lauri Aaltonen, December 2018**

PERSONAL INFORMATION

Surname, given names: Aaltonen, Lauri Antti

Gender: Male

Citizenship: Finland

Researcher unique identifiers: Orcid 0000-0001-6839-4286, ResearchID A-5375-2010

Website: https://www.helsinki.fi/en/researchgroups/tumor-genomics

EDUCATION AND DEGREES AWARDED

PhD, University of Helsinki, Faculty of Medicine, 30 August 1994

Licenced Physician, 27 March 1991

MD, University of Helsinki, Faculty of Medicine 30 June 1989

Docent, Medical molecular genetics, University of Helsinki, Faculty of Medicine, 18 December 1996

CURRENT MAIN POSITIONS

ERC advanced grant PI 2011-2016, new term 2016-2021

Professor of Tumor Genomics, University of Helsinki, Faculty of Medicine, 8/2007-

Visiting professor (20%) of Cancer Genetics, Karolinska Institutet, Sweden, 6/2015-

Director, Academy of Finland’s Center of Excellence in Cancer Genetics Research 2012-2017

Director, Genome Scale Biology Research Program, University of Helsinki 2009-

PREVIOUS WORK EXPERIENCE

- Academy Professor 8/2002-12/2017

- Pre-Doctoral Fellow, Haartman Institute, Department of Medical Genetics, University of Helsinki 1991-1994

- Visiting researcher, Marshfield Medical Research Foundation, Wisconsin, USA 8-10/1992

- Post-Doctoral Fellow, Haartman Institute, Department of Medical Genetics, University of Helsinki 1994-1996

- Consultant, HUCH Diagnostic Services 1997-2005

- Senior Fellow, Academy of Finland 8/1997-1/2001

- Research Professor, Finnish Cancer Institute 2/2001-7/2002

MERITS IN TEACHING AND PEDAGOGICAL COMPETENCE

Pedagogical training and competence

- Long term staff development and teacher training course in medical education, 1998-1999,

240 hours.

- Advanced course in tutoring 1999, 40 hours.

AWARDS, PRIZES AND HONOURS

- Pharmacia Biotech & Science Prize for Young Scientists, European Winner 1995 (Global Award, thesis prize with no age limit)

- European Association for Cancer Research, Young Cancer Researcher Award 1998 (European Award, under 35)

- Sigrid Juselius Foundation, Young Medical Researcher Award 1999 (national award, under 40)

- Institut des Sciences de la Santé Europe & Médecine Junior Prize 1999 (EU award in medicine, under 40)

- Anders Jahre Medical Prize for young scientists 2000 (Nordic countries award, under 40)

- Medix Prize for Biosciences 2003, for publication 82 (National award for best biomedical publication of the year, to all coauthors)

- Nominee for Descartes Prize 2005 (project CANCERGENES, with Ian Tomlinson)

- University of Helsinki's Occupational safety and health award 2005

- Matti Äyräpää Prize (main national medical research prize) 2006

- Biomedicum Helsinki Medal 2011

RESREACH SUPERVIOSION

Supervisor of 31 Doctoral Students (approval with distinction reserved to <10% of works in the Faculty of Medicine)

1994-1998 M.D. Akseli Hemminki (approved with distinction, Faculty of Medicine thesis

prize 1999, co-supervisor Albert de la Chapelle)

1994- 2004 M.D., pathologist, Reijo Salovaara (co-supervisors Eero Saksela and Albert de la Chapelle)

1996-1999 M.Sc. Egle Avizienyte

1996-2000 M.Sc. Stina Roth (co-supervisor Albert de la Chapelle)

1997-2000 M.Sc. Anu Loukola

1999-2004 M.Sc. Susa Vilkki (co-supervisor Auli Karhu)

1999-2006 M.Sc. Rainer Lehtonen

2000-2005 M.Sc. Päivi Laiho (co-supervisor Virpi Launonen)

2000-2002 M.B. Maija Kiuru (approved with distinction, University of Helsinki thesis prize,

co-supervisor Virpi Launonen)

2000-2005 M.Sc. Tuija Hienonen (co-supervisor Auli Karhu)

1999-2007 M.Sc. Sanna Ylisaukko-oja (co-supervisor Virpi Launonen)

2002-2006 M.B. Sakari Vanharanta (approved with distinction, co-supervisor Diego Arango)

2003-2008 M.Sc. Heli Lehtonen (co-supervisor Virpi Launonen)

2003-2008 M.B. Heli Sammalkorpi (co-supervisor Auli Karhu)

2003-2007 M.D. Pia Alhopuro (approved with distinction, co-supervisor Auli Karhu)

2003-2006 M.Sc. Tech. Antti Kokko (approved with distinction, co-supervisor Diego Arango)

2004-2008 M.D. Outi Vierimaa (approved with distinction, Medical Faculty's Dissertation Excellence Award 2008, co-supervisors Pasi Salmela and Jaakko Leisti)

2005-2008 M.Sc. Marianna Georgitsi (approved with distinction, co-supervisor Auli Karhu)

2005-2009 M.Sc. Sari Tuupanen (approved with distinction, co-supervisor Auli Karhu)

2005-2010 M.D. Taru Ahvenainen (co-supervisor Virpi Launonen)

2005-2013 M.B. Silva Saarinen (approved with distinction, co-supervisor Pia Vahteristo)

2006-2009 M.Sc. Anniina Raitila (co-supervisor Auli Karhu)

2007-2011 M.D. Elina Heliövaara (approved with distinction, co-supervisor Auli Karhu)

2007-2011 M.Sc. Iina Niittymäki (co-supervisor Auli Karhu)

2008-2014 M.Sc Alexandra Gylfe (co-supervisor Auli Karhu)

2009-2014 M.Sc. Eevi Kaasinen (approved with distinction, co-supervisor Esa Pitkänen)

2011-2015 M.Sc. Netta Mäkinen (approved with distinction, co-supervisor Pia Vahteristo)

2011-2016 M.Sc. Miika Mehine (approved with distinction co-supervisors Pitkänen and Vahteristo)

2012-2016 M.Sc. Kati Kämpjärvi (co-supervisor Pia Vahteristo)

2011-2017 M.D. Hanna Heinonen (co-supervisor Pia Vahteristo)

OTHER ACADEMIC MERITS

Service as a pre-examiner, opponent of a doctoral dissertation

As opponent: 6 times, pre-examiner: 6 times, examiner: 12 times

Memberships and positions of trust in scientific and scholarly societies

- Member of the Scientific Council of the International Agency for Research on Cancer,

WHO, 1999-2001

- Member of the European Association for Cancer Research Committee for Central and Eastern Europe, 1999-2001

- Member, Academy of Finland Center of Excellence in Disease Genetics, 2000-2005

- Vice Director, Academy of Finland Center of Excellence in Disease Genetics 1/2000 – 12/2000 (rotating vice directorship, the 5 board members sharing the duties 2000-2005)

- Member of the Science Foundation Ireland Scientific Advisory Committee 8/2002-2004

- Member of the Danish Cancer Society’s Scientific and Medical Advisory Board, 2003-2006

- Member of the EMBO Science & Society Committee 1/2003-2006

- Member of the Finnish Cancer Society’s Grant Review Board, 2004-2007

- Member, Nordic Network of Excellence in Disease Genetics 2004-2009

- Member, Academy of Finland Center of Excellence in Translational Genome-Scale Biology,

2006-2011

- Member of the Board, Helsinki Biomedical Graduate School, 2008-2011

- Member of the Scientific Advisory Board, Spanish National Cancer Research Centre, 2012-

- Member of the Scientific Advisory Board, Finnish Cancer Institute 2012-

- Vice Member of the Board, Helsinki Institute of Life Science (HILIFE) 2016-

- External Reviewer: European Commission, Cancer Research Campaign UK, the Wellcome Trust UK, Yorkshire Cancer Research, Italian Association for Cancer Research, Dutch Cancer Society, Paulo Foundation, Academy of Finland

Membership in national or international expert groups

Member, European Molecular Biology Organization EMBO (invitation) 2000-

Member, Finnish Academy of Science and Letters (invitation) 2002-

Member, European Academy of Cancer Sciences (invitation) 2010-

Positions as editor-in-chief, editor, or member of editorial boards

Associate editor: Familial Cancer 2012-

Member of editorial board: Cancer Letters 2000-2002, Journal of Medical Genetics 1999-2005,

International Journal of Cancer 2003-2005, Cancer Genomics & Proteomics 2004-

Membership in Journal’s Advisory Board: Acta Oncologica 2004-2008

Referee for scientific and scholarly journals

Reviewer for 70 Journals including Nature, Science and New England Journal of Medicine.

Administrative responsibilities at higher education institutions or at research organisations

- Director of Biocentrum Helsinki, 2012-2013

- Coordinator (one of five), Biomedicum / Molecular and Cancer Biology program 1998-2005

- Vice Chairman of the Board, Institute of Biotechnology, University of Helsinki 2004-2010

Over 75 invited talks in international meetings, examples from 2010-

- EMBO workshop on Tumor Suppressors, Barcelona, Spain 10-110510; Prevention of malignancy in hereditary nonpolyposis colorectal cancer patients, 110510.

- European Human Genetics Conference 2010, Gothenburg, Sweden, 12-150610: Genetics of cancer predisposition. 120610.

- 3rd Genetic Instabitity Workshop, Milan, Italy, 20-231110; Genetic instability in uterine leiomyomas, 221110.

- 19th United European Gastroenterology Week, Stockholm, Sweden, 22-261011; Genetic testing of patients with colorectal cancer: Who and when? 261011.

- Nordic Network for PhD students in Cancer Research, 1st annual meeting, Gothenburg, Sweden 03-050612. Academy of Finland’s Center of Excellence in Cancer Genetics; how it was built and how it is run, 050612.

- International Symposium on Molecular Oncology, Aarhus Denmark. Molecular studies on colorectal cancer. 240113.

- International Workshop on Uterine Leiomyomas, Rostock, Germany, 13-15052014. Lessons from high-throughput sequencing of leiomyomas, 140514

-Familial Cancer Conference, European School of Oncology and CNIO, Madrid, Spain, 05-060614, Incidental findings in high-throughput sequencing, 060614.

- Distinguished Seminars Series, Cancer Research UK Cambridge Institute. Towards moleculer classification of uterine leiomyomas, 260315.

- Annual meeting of the Society of Endometriosis and Uterine Disorders (SEUD), Barcelona, Spain,

11-140516, Keynote Lecture: Genomics of Uterine Fibroids: so what?, 130516.

SCIENTIFIC AND SOCIETAL IMPACT OF RESEARCH

Number of original publications: 272, times cited (without self-citations, WoS 13.12.18) 29125,

h-index 84.

Invention disclosures and patents

- US Patent No. 6,423,491 "Methods of Diagnosing Juvenile Polyposis" (Inventors LA Aaltonen & J Howe).

- Patent application submitted in DK No. PA 2004 01843 “Classification of Cancer” (Inventors, Orntoft, Jensen, Kruhøffer, Laiho, Aaltonen).

- Patent application submitted in Spain, P200601719, "Prognostic method for colorectal cancer", 220606 (Inventors Diego Arango del Corro, Simó Schwartz Navarro, Lauri A. Aaltonen, John M Mariadason, Carlos Buesa Arjol).

- Patent application submitted in the US, 61/220,335, Biomarker for colorectal cancer, 250609 (Inventors Aaltonen LA, Taipale J, Tuupanen S, Turunen M).

POSITIONS OF TRUST IN SOCIETY AND OTHER SOCIAL MERITS

Finnish military rank

Reserve Officer School / Medical, as conscript. Second lieutenant 1990.

Expert duties - Invited Expert, Finnish Parliament / Committee for Social Affairs and Health / Issues in Biobank Legislation 230512. - Invited Expert, European Parliamentary Technology Assessment Annual Conference 10/2001, workshop on Genome. - Member of the Advisory Board on Biotechnology (appointed by the Government) 2011-13 - Member, Specialist group developing the national legislation on biobanks (appointed by the Ministry of Health and Social Affairs) 2013-