

# CURRICULUM VITAE

## Jouni J. K. Jaakkola

### updated 15 January 2020

Director, Center for Environmental and Respiratory Health Research (CERH)  
Director, WHO Collaborating Centre in Global Change, Environment and Public Health  
Professor of Public Health, Faculty of Medicine, University of Oulu  
P.O. Box 5000, FI-90014 University of Oulu, FINLAND  
Visiting address: Aapistie 5 B, 1st floor, Oulu, FINLAND  
Phone: +358 40 6720 927, Email: Jouni.jaakkola (a) oulu.fi  
Center website: [www.oulu.fi/cerh](http://www.oulu.fi/cerh)  
Profile page: <https://www.oulu.fi/university/researcher/jouni-jaakkola>



#### PERSONAL INFORMATION

**Full name** Jaakkola, Jouni Juha Kalervo  
**Researcher ID** [G-4314-2012](https://orcid.org/0000-0003-4168-4683)  
**ORCID ID** [0000-0003-4168-4683](https://orcid.org/0000-0003-4168-4683)  
**SCOPUS Author ID** [16472432100](https://scopus.com/authid/detail.url?authorID=16472432100)  
**Gender** male  
**Date of birth** 28 July 1957, Iitti, Finland  
**Nationality** Finnish  
**Place of residency** Oulu, Finland  
**Address** P.O. Box 5000, FI-90014 University of Oulu  
**Email** [Jouni.jaakkola@oulu.fi](mailto:Jouni.jaakkola@oulu.fi)  
**Tel.** + 358 40 672 0927  
**URL** <http://www.oulu.fi/cerh/>  
**LINKS** ResearchGate: [https://www.researchgate.net/profile/Jouni\\_Jaakkola](https://www.researchgate.net/profile/Jouni_Jaakkola)  
GoogleScholar: [https://scholar.google.com/citations?user=QYI\\_BDcAAAAJ&hl=en](https://scholar.google.com/citations?user=QYI_BDcAAAAJ&hl=en)  
LinkedIn: <https://fi.linkedin.com/in/jouni-j-k-jaakkola-md-phd-b15b6526>

#### EDUCATION AND DEGREES

2005– Honorary Fellow, Faculty of Occupational Medicine, Royal College of Physicians  
2003– Specialist in Public Health Medicine, University of Helsinki, registered by UK  
General Medical Council in 2003-2013  
1995 Ph.D. in Epidemiology and Biostatistics, McGill University (with honours) Thesis  
topic: Sick building syndrome: the phenomenon and its air-handling etiology.  
1987–1989 Dept of Epidemiology and Biostatistics, McGill University (24 months)  
1987 D.Sc. in Medicine, Dept of Public Health, University of Helsinki. Thesis topic: Indoor  
air in office building and human health.  
1984 M.D., University of Helsinki

#### Adjunct professorships / Title of Docent

2000–2007 Adjunct Associate Professor, Department of Epidemiology, The Johns Hopkins  
School of Hygiene and Public Health, Baltimore, Maryland, USA  
1996–1999 Adjunct Associate Professor in Environmental Sciences and Engineering,  
Department of Environmental Health, Harvard School of Public Health, Boston,  
Massachusetts; USA  
1994– Adjunct Professor (“Docent”) in Environmental Medicine, Dept of Public Health,  
University of Helsinki  
1992– Adjunct Professor (“Docent”) in Heating, Ventilating and Air Conditioning, Dept of  
Mechanical Engineering, Helsinki University of Technology

## **OTHER EDUCATION AND SKILLS**

2009–2013 Leadership training for multidisciplinary organisations: 30 credit course organised by University of Oulu

## **LINGUISTIC SKILLS**

Mother tongue Finnish  
Other languages English, excellent  
Swedish, excellent  
German, satisfactory  
French, satisfactory  
Spanish, elementary

## **CURRENT APPOINTMENTS**

2014– Director, WHO Collaborating Centre in Global Change, Environment and Public Health, University of Oulu  
2008– Director, Center for Environmental and Respiratory Health Research (CERH), University of Oulu  
2007– Professor of Public Health, University of Oulu

## **MOST IMPORTANT PREVIOUS APPOINTMENTS**

2010–2013 Dean for Research, Faculty of Medicine, University of Oulu, Oulu, Finland  
2003–2010 Professor of Occupational and Environmental Medicine and  
2003–2008 Director of the Institute of Occupational and Environmental Medicine, University of Birmingham, Edgbaston, Birmingham, B15 2TT, UK  
2003–2008 Director of the World Health Organization Collaborating Centre in Occupational Health, University of Birmingham, UK  
2002–2003 Professor of Epidemiology, Department of Public Health, University of Helsinki, Helsinki, Finland [Epidemiologian professori]  
1994–2003 Head, Environmental Epidemiology Unit, Department of Public Health, University of Helsinki, Finland [Ympäristöepidemiologian yksikön johtaja]  
2000–2003 Professor of Public Health (on 80% leave from 1 August 2002)  
Environmental Health Program, The Nordic School of Public Health, Gothenburg  
1996–2003 Scientific Advisor, National Institute of Public Health, Norway  
1997–2000 Associate Professor, Department of Epidemiology, The Johns Hopkins School of Hygiene and Public Health, Baltimore, Maryland, USA  
1996–1997 Senior Technical Advisor, Harvard Environmental Epidemiology Project in Russia (12 months)  
1994–1996 Head of Environmental Epidemiology Program, National Institute of Public Health of Norway (on 80% leave from 1 July 1995)  
1992–1996 Associate Professor of Epidemiology, Dept of Public Health, University of Helsinki (36 months) [Epidemiologian apulaisprofessori]  
1991–1992 Recipient of Research Fellowship from the Academy of Finland  
1985–1990 Research Associate, National Public Health Institute, Unit of Statistics, Helsinki and Division of Environmental Health, Kuopio (on leave 1987-89) [Erikoistutkija]  
1984–1985 Research Associate, Dept of Public Health, University of Helsinki [Assistentti]

## **Most important scientific and academic administrative positions**

2010–2013 Dean for Research, Faculty of Medicine, University of Oulu, Oulu, Finland  
2010–2013 University of Oulu Research Committee  
2009–2013 Board, Faculty of Medicine, University of Oulu  
2008-2012 Member and Chair (2010-) of the Committee for Doctoral Research Training, Faculty of Medicine, University of Oulu  
2005-2007 Advisory Group on Planning and Resource Allocation, The University of

	Birmingham, UK
2002–2003	Committee for Doctoral Research Training, Faculty of Medicine, University of Helsinki
1999	Expert Reviewer of Candidates for Professorship in Exposure Assessment, University of Kuopio, Kuopio, Finland
1999–2000	Committee on Advanced Curriculum in Epidemiology, Johns Hopkins University
1998–2000	Comprehensive Exam Committee, Johns Hopkins University
1998–2000	Committee on Human Research, Johns Hopkins University
1995–1996	Committee for Environmental Studies in the University of Helsinki
1995–1996	Chairman of a Committee for Coordination of International Student Exchange in Erasmus program (European Union), Faculty of Medicine, University of Helsinki
1995–1996	Chairman of a Committee for Developing Education in English, Faculty of Medicine, University of Helsinki

### Most important scientific visits abroad

1987–2008	Work abroad in various universities and research institutes in Canada, Russia, United States, Sweden, Norway, and UK as indicated above for a total of 14 years.
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## RESEARCH FUNDING, LEADERSHIP AND SUPERVISION

### Most important research funding

2020-2023	EU H2020: <i>EMERGE - Evaluation, control and mitigation of the environmental impacts of shipping emissions</i> (Partner, PI: 299 903 €)
2019	Finnish Government, Analysis, assessment and research activities VN TEAS: <i>SAAMI - Adaptation of Saami people to the climate change</i> (Director, PI: 150 000 €)
2018-2019	EU Union Civil Protection Mechanism: <i>EXTReme tEMperature Alerts for Europe</i> (WP co-leader, 85 042€)
2017-2021	Academy of Finland Consortium: <i>Global health risks related to atmospheric composition and weather (GLORIA)</i> (Director, PI: 100 000€)
2017-2021	Finnish Cultural Foundation, <i>The climate change adaptation of Saami people and the development of holistic indicators to study and monitor Saami well-being and influences of climate change</i> (PI, 150 000€)
2017-2018	The Research Foundation of the Pulmonary Diseases, <i>Air pollution, pollen, weather and asthma in the changing climate</i> (PI, 15 000€)
2013–2017	Academy of Finland Consortium “The Influence of Air Pollution, Pollen and Ambient Temperature on Asthma and Allergies in Changing Climate (APTA)” (Director, PI: 840 000 €)
2011–2013	Effects of regular exercise on asthma control, physical fitness and quality of life of asthmatics. GSK, (Role Co-PI: 100 000 €)
2010-2014	Academy of Finland Project “Genes, environment and asthma” (Role Co-PI: 240 000 €)
2008–2013	Academy of Finland, Consortium “Climate change, air quality and housing - future challenges to public health” (Consortium leader Pekkanen 1,4 M Euros). Leader of Sub-project “Climate change, housing and public health” (170 000 €)
2008–2013	The impact of self-management on asthma control and quality of life Several smaller grants from different Foundations, mainly Finnish Lung Health Association and Väinö and Laina Kivi Foundation, 47 000 € (Co-PI)
2003–2007	Grants from the U.K. West-Midlands Levy Board grants for Occupational Health (PI: £700,000)
1999–2002	JHU EPA R827436-01-0 “Mobile Source Air Pollution Exposure and Effects in the Urban Environment” (Groopman, Samet, USD 1,462,500) Personal Role: PI of the Epidemiology Project “Respiratory health effects of exposure to urban air pollution

1998–2003	from vehicles and other sources in people with asthma" (PI: USD 691,264) Grant from U.S. NIEHS/EPA, "Center for Childhood Asthma in the Urban Environment" (Co-Director, USD 5 000 000). Epidemiology component; a case-control study of childhood asthma, (PI: USD 750 000)
1997–2004	The relations between occupational exposures and dampness problems at work to incidence of asthma. The Finnish Environment and Asthma Study (FEAS). The Finnish Work Environment Fund and the Ministry of Social Affairs and Health, a series of grants totalling 311 148 € (Role Co-PI)
1995–1999	Grants from the Norwegian Research Council: "Indoor environment and children's respiratory health" (PI: 2 000 000 NOK)
1991–1995	Several grants from the Finnish Ministry of Health and Social Affairs for studies of the health effects of indoor environment, especially passive smoking (PI: 620 000 FMK)
1991–1993	Academy of Finland, Medical Research Council, "Day-care environment and health" (PI: 243 000 FMK)
1986–1987	Academy of Finland, Environmental Research Council: "Water mutagenicity and cancer" (PI: 90 000 FMK)

### Supervision of post-doc researchers

- Antonio Escamilla-Cejudo, Johns Hopkins University, primary supervisor
- Ian Litchfield, University of Birmingham, UK
- Reginald Quansah, University of Oulu, primary supervisor
- Aino Rantala, University of Oulu, primary supervisor
- Taina Lajunen, University of Oulu, secondary supervisor
- Penpatra Sribajboonkij, University of Oulu, primary supervisor
- Adeladza Kofi Amegah, University of Oulu, primary supervisor
- Qianlai Luo, University of Oulu, primary supervisor
- Niilo Ryti, University of Oulu, primary supervisor
- Heidi Hintsala, University of Oulu, secondary supervisor

### Supervision of doctoral students

- Olli Marttila, PhD, University of Helsinki, Department of Limnology and Environmental Protection, and Public Health, 1995
- Risto Ruotsalainen, Doctor of Technology, Helsinki University of Technology, Faculty of Mechanical Engineering, 1995
- Meri Koivusalo, Doctor of Medical Science, University of Helsinki, Department of Public Health, 1998
- Antonio Escamilla-Cejudo, PhD, Johns Hopkins University, School of Hygiene and Public Health, 1999
- Mildred Maisonet Nogueras, PhD, Johns Hopkins University, School of Hygiene and Public Health, 2000
- Ching-Huang Lai, PhD, Johns Hopkins University, Bloomberg School of Public Health, 2002
- Bing-Fang Hwang, PhD, Johns Hopkins Bloomberg School of Hygiene and Public Health, 2002
- Niina Jaakkola, PhD, University of Helsinki, Department of Public Health, 2002
- Leena M. Reinikainen, Doctor of Medical Science, University of Helsinki, Department of Public Health, 2002
- Parvez Ahmed, PhD, Institute of Occupational and Environmental Medicine, University of Birmingham, 2008
- Timo Hugg, PhD, Institute of Health Sciences, University of Oulu, 2009
- Abdul Khalade, PhD, Institute of Occupational and Environmental Medicine, University of Birmingham, 2010
- Reginald Quansah, PhD, Institute of Occupational and Environmental Medicine, University of

Birmingham, 2010

- Jacqueline Halliday-Bell, Doctor of Medicine, Institute of Occupational and Environmental Medicine, University of Birmingham, August 2010
- Adeladza Kofi Amegah, PhD, Center for Environmental and Respiratory Health Research (CERH), University of Oulu, 2014
- Niilo Ryti, PhD, Center for Environmental and Respiratory Health Research (CERH), University of Oulu, 2017
- Heidi Hintsala, PhD, Center for Environmental and Respiratory Health Research (CERH), University of Oulu, 2018 (co-supervisor)

Currently supervising or co-supervising (c) 9 doctoral students: Salla Alavaikko, Hamudat Balogun, Sirpa Aalto (c), Samu Hernberg, Henna Hyrkäs-Palmu (c), Elina Mäkikyrö, Nazeeba Siddika, Ilkka Mehtonen and Simo-Pekka Kiihamäki.

### **MERITS IN TEACHING AND PEDAGOGICAL COMPETENCE**

Teaching positions in the following universities: University of Helsinki (1985-), Helsinki University of Technology (1992-), Harvard School of Public Health (1996-99), Johns Hopkins Bloomberg School of Public Health (1997-), Nordic School of Public Health (2000-2003), University of Birmingham (2003-), University of Oulu (2008-)

#### **Most important teaching development work**

*Planning of the Doctoral Program in Public Health. A Committee Member.*

When Associate Professor at the Department of Public Health, University of Helsinki, Dr. Jaakkola was a member of the planning committee of the doctoral training in public health. The planning formed the basis for the Doctoral Programs in Public Health which were funded by the Academy of Finland.

*Research Methods in Health Sciences, Department of Public Health, University of Helsinki 1992-96. Principal Faculty Member.*

This was an introductory course for medical students in epidemiology, biostatistics and study protocol writing. The volume of the course was 4 study weeks and the teaching was in English. This course was chosen from three alternative modules in public health. The main idea was to offer an introduction to research methods in public health with focus on epidemiology, which was also suitable for any student interested in empirical research. The course comprised interactive lectures, problem-based exercises, and planning and presentation of research protocols in a seminar which simulated a scientific conference. Dr. Jaakkola gave the course a total of 6 times, had an overall responsibility and gave all the lectures, instructed in developing protocols and directed the seminars. This alternative was as a rule the most popular among the three alternatives and received high ratings from the students.

*Occupational Epidemiology, Johns Hopkins University 1998-2000. Principal Instructor.*

Dr Jaakkola planned and taught at the Johns Hopkins School of Public Health (Department of Epidemiology, Program of Environmental and Occupational Epidemiology) this central module in 1998-2000. He applied the most modern epidemiologic methods in occupational health research.

*Environment and Health, The Nordic School of Public Health. Course leader. 2001-2*

Dr Jaakkola planned and taught a two-week intensive course in environmental health. The first week included the main methods in environmental health impact assessment including exposure assessment, toxicology, epidemiology, and health impact assessment. The second week was dedicated to the most important adverse effects of ambient air pollution, indoor environments, drinking water, diet and radiation.

*Epidemiology, The Nordic School of Public Health. Course leader. 2001-2*

Dr Jaakkola planned and conducted a two-week intensive course on intermediate level epidemiology.

The course included interactive lectures, exercise sessions and a course workshops conducted in groups of 3-5 students.

*Principles and Practices of Occupational Health, University of Birmingham. Module Tutor*

This one-week intensive course is the first module in our one-year MSc programme in Occupational Health. The course gives both a broad perspective to work and health, occupational health services and focuses on health and safety issues of individual workers and workplaces. The course includes a workplace visit and writing of an essay.

*Principles of Occupational Epidemiology, University of Chile International Summer School 2006.*

This is a one-week intensive course for students with multidisciplinary background, which I gave in Santiago de Chile in January 2006. The course received top ratings from the students.

*Principles of Epidemiology, University of Oulu, Faculty of Medicine*

Basic course in epidemiologic methods for medical students.

*Climate Change, Weather and Human Health, University of Oulu 2014*

This is a three-day training course for doctoral students and specialists give as part of WHO collaboration.

### Compilation of teaching material

Dr Jaakkola has developed several major courses as the course leader. This development has included production of teaching material, including handouts and exercises.

In 1992, he edited the first university-level textbook in environmental health in Finland. This book was widely used in undergraduate, postgraduate and continuing education, including specialist training in public health and environmental and occupational health.

- *Ympäristöterveyden käsikirja (Handbook of environmental health) (Co-editor with Helena Mussalo-Rauhamaa). Duodecim, 1993.*

### Contributed to several textbooks including:

- Keuhkosairaudet (Respiratory Diseases). Kinnula V, Tukiainen P, Laitinen LA (Editors) Duodecim: Jyväskylä, 1997. Chapters: Jaakkola MS, **Jaakkola JJK**. Tupakointi ja keuhkosairaudet. and **Jaakkola JJK**, Jaakkola MS. Yhdyskuntailmansaasteet ja keuhkosairaudet.
- Air pollution and health. Holgate ST, Samet JM, (Editors) Academic Press: 1999. Chapter: Samet JM, **Jaakkola JJK**. Epidemiologic methods.
- Indoor Air Quality Handbook. Spengler JD, Samet JM (Editors). McGraw-Hill, 2001. Chapter: **Jaakkola JJK**. Day-care environment and health.
- Occupational disorders of the lung. Hendrick D, Beckett WS, Burge PS, Churg A (Editors), Saunders, 2001. Chapter: **Jaakkola JJK**, Jaakkola MS. Sick building syndrome.
- Global change and public health. Butler CD (Editor), GABA 2014. Chapter: **Jaakkola JJK**, Adeladza AK. Climate change, housing and public health.

Dr Jaakkola has advised the Pan American Health Organization and the University of Chile, School of Public Health, in developing a distance-learning course in occupational epidemiology in Spanish. This course will fill an important gap in the area of occupational health in Latin America.

### MOST IMPORTANT SCIENTIFIC ACKNOWLEDGEMENTS, AWARDS AND HONORS

- |      |   |
|------|---|
| 1994 | Found qualified and competent for the post of Professor of Epidemiology in the Nordic School of Public Health, Gothenburg, Sweden |
| 1995 | Ph.D. in Epidemiology and Biostatistics placed in the Dean's Honour List for outstanding performance, McGill University           |



1997	Found qualified and competent for the post of Professor of Public Health in the University of Oulu, Oulu, Finland
1997	Found qualified and competent for the post of Professor of Environmental Medicine, Trondheim, Norway
1997	Member of the International Academy of Indoor Air Sciences (by invitation)
2000	ISS International Indoor Climate Research Award
2005	Honorary Fellow, Faculty of Occupational Medicine, Royal College of Physicians

## **OTHER ACADEMIC MERITS**

### **Editorial Board Memberships**

2000–	American Journal of Epidemiology, Associate Editor
2002–2012	Environmental Health: A Global Access Science Source, Editorial Board Member
2004–2008	Epidemiology, Editorial Board Member
2012–	OA Epidemiology, Editorial Board Member

### **Society Membership and Leadership**

1990–	International Society for Environmental Epidemiology
1992–1995	Counsellor of the Steering Board
1991–	- member of steering committee
1991–	- Member of a Standing Committee in Ethics and Philosophy
2002–2003	- Chairman of a Standing Committee in Ethics and Philosophy
1989–1995	American Thoracic Society
1991–1993	International Conference on Indoor Air Quality, Indoor Air '93 - Organizing and scientific committee member, Editor of the Proceedings
1981–	Duodecim (Finnish College of Physicians)
1981–	Finska Läkarsällskapet
1987–	Sosiaalilääketieteen yhdistys (Finnish Society for Social Medicine)
1994–1996	- Board member
2000–	Suomen Epidemiologiyhdistys (Finnish Society of Epidemiology) - founder, board member

### **Selected Consultations and Committee Memberships**

1991–94	Member of a European Union COST-613 Working Group on Intervention Studies - Sick Building Syndrome
1997	Member of a WHO Working Group on Exposure Assessment to Pollutants in Indoor Environments
2001	Reviewer of grant applications for Health Effects Institute; Boston, MA
2001	Reviewer of grant applications for the Academy of Finland
2002	Advisor for WHO-EURO. National Environmental Performance Review of Georgia. Assessment of Environmental and Occupational Health in Georgia
2004-2005	House of Commons, Work Pensions Select Committee, United Kingdom
2006	Advisor for PAHO, Santiago de Chile. Environmental Health Indicators in Air Pollution Management
2010	Advisor for WHO-EURO
2019	Temporary Advisor for WHO-EURO on Health in Climate Change
2019–	Member of the Finnish Expert Panel for Sustainable Development, Finland
2019	Science Advice for Policy by European Academies (SAPEA) expert on climate change and health
2020–	Member of the Finnish Climate Change Panel, Finland

## SCIENTIFIC AND SOCIETAL IMPACT OF RESEARCH

### Bibliometrics

**245** peer reviewed scientific publications

**224** publications in PubMed

- first author in **34**, last author in **110**

Scopus >**8200** citations

**Hirsch Index: WOS 56, Scopus 63, Google Scholar 78**

**Pubmed articles:** <http://www.ncbi.nlm.nih.gov/pubmed/?term=Jaakkola+JJ>

**Publication list:** <http://www oulu.fi/cerh/node/9620>

### Scientific and societal impact

Dr. Jaakkola has since 1980's conducted research into environment and health in populations applying epidemiologic methods and combining multidisciplinary collaboration. His main areas of interest include effects of indoor environments, ambient air pollution and water quality on respiratory, cardiovascular, reproductive health and cancer. He has contributed to theory and practice of exposure assessment applying both biomarkers of exposure, effects and effect modification. Over the past five years he has directed a research program on Global change, environment and public health which applies diverse approaches including epidemiologic method, clinical medicine, genetics, complex exposure modelling for assessment of climate-change related environmental factors and health. These provide data for construction of future scenarios of the impact of climate change on health. Dr. Jaakkola has combined academic and societal activities for the global public health mission. He served as Director of a WHO Collaborating Centre in Occupational Health at University of Birmingham 2003-2008 and currently as Director of a WHO Collaborating Centre in Global Change, Environment and Public Health for 2014-2018. Together with professor Colin Butler, (U of Canberra) he has also established Health-Earth, a global network of 9 universities to address emerging global health issues.

### Selected appearances in media

- Helsingin sanomat (online) August 22, 2019  
Suomen ilma on maailman puhtainta, mutta kansainvälisen tutkimuksen mukaan ilmansaasteet voivat tappaa myös täällä [in Finnish]  
<https://www.hs.fi/kotimaa/art-2000006212498.html>
- Helsingin sanomat 29 May 2019  
Suomalaistutkijat tekivät yllättävän havainnon: Lepän siitepöly aiheuttaa todennäköisesti kymmeniä kuolemia vuodessa [in Finnish]  
<https://www.hs.fi/hyvinvointi/art-2000006124462.html>
- Kaleva 29 October 2018  
Ilmastonmuutos uhkaa saamelaisten terveyttä – Saamelaisten elintavat ovat alkaneet muistuttaa valtakulttuuria [in Finnish]  
<https://www.kaleva.fi/uutiset/pohjois-suomi/ilmastonmuutos-uhkaa-saamelaisten-terveytta-saamelaisten-elintavat-ovat-alkaneet-muistuttaa-valtakulttuuria/809207/>
- Helsingin sanomat August 2, 2018  
Synkkä ennuste tulevaisuudesta: Helteeseen kuoleminen lisääntyy Suomessa jopa 240 prosenttia [in Finnish]  
<https://www.hs.fi/kotimaa/art-2000005777586.html>
- STAT News January 8, 2016  
Health: When temperatures drop, deaths rise  
<http://www.statnews.com/2016/01/08/cold-weather-deaths-rise/>



- Kaleva, May 22, 2014  
Ilmastoystävällistä, kiitos! [in Finnish]  
Ilmastonmuutoksesta huolestuneet valitsevat ilmastoystävällisiä ruokia
- Akuutti, YLE TV1, December 12, 2012  
Home altistaa astmalle [in Finnish]  
[http://ohjelmat.yle.fi/akuutti/home\\_altistaa\\_astmalle](http://ohjelmat.yle.fi/akuutti/home_altistaa_astmalle)
- Kaleva, November 14, 2012  
Hometalo on lapselle vaarallisempi kuin aikuiselle [in Finnish]  
<http://www.kaleva.fi/uutiset/kotimaa/hometalo-on-lapselle-vaarallisempi-kuin-aikuiselle/612143/>
- Terve 24, November 14, 2012  
Homevaurio aiheuttaa astmaa [in Finnish]  
<http://www.kaleva.fi/uutiset/terve24/homevaurio-aiheuttaa-astmaa/612099/>
- Iltalehti, Terveys, August 2, 2010  
Kodin kosteusvauriot lisäävät allergista nuhaa [in Finnish]  
[http://www.iltalehti.fi/allergia/2010080212130189\\_al.shtml](http://www.iltalehti.fi/allergia/2010080212130189_al.shtml)
- The Telegraph, News, June 2, 2008  
Babies exposed to chlorinated water at risk of heart problems  
<http://www.telegraph.co.uk/news/uknews/2066421/Babies-exposed-to-chlorinated-water-at-risk-of-heart-problems.html>
- Science Daily, Science News, June 5, 2008  
Drinking Tap Water Disinfected With Chlorine May Harm Fetus, Study Suggests  
<http://www.sciencedaily.com/releases/2008/06/080602103343.htm>
- BBC News, Health, March 22, 2005  
Traffic fumes 'damage human DNA'  
<http://news.bbc.co.uk/2/hi/health/4368093.stm>

## POSITIONS OF TRUST IN SOCIETY AND OTHER SOCIETAL MERITS

Contribution several science-based policy statements at national and international level (see 11. Other academic merits). Chair of the Academy of Finland work shop on climate change and health 20 October 2014. Member of the Finnish Expert Panel for Sustainable Development 2019- and member of the Finnish Climate Change Panel, Finland 2020-.