September 2015



**SYNOPSIS** **OF THE CURRICULUM VITAE OF JUKKA HEIKKI MEURMAN**

**M.D., Ph.D., Dr.Odont., Dr. hc (multi.), FDSRCSEd**

**Date and Place of Birth**

September 14, 1947, Helsinki, Finland

**Marital Status and Children**

Elisabet Kristina Hellberg, two (adult) children, three grand children

**Education and Qualifications**

Licentiate of Dentistry (University of Helsinki) 1972

Doctor of Odontology (Ph.D.) (University of Helsinki) 1977

Licentiate of Medicine (University of Helsinki) 1980

Docent in Cariology (University of Helsinki) 1980

Legitimate Physician (M.D.) (Finnish Board of Medicine) 1980

License and Specialist in Clinical Dentistry

(Finnish Board of Medicine) 1986

Doctor Chirurgiae et Medicinae (Ph.D.) (University of Helsinki) 1993

**Present Appointment**

Professor and Chair in Oral Infectious Diseases

(University of Helsinki) 1996 – 2015

Professor emeritus 2016 -

Head Physician (Department of Oral and Maxillofacial Diseases,

Helsinki University Hospital) 2000- 2015

Research group leader (Department of Oral and Maxillofacial Diseases,

Helsinki University Hospital) 2016 -

Foreign Adjunct Professor, Karolinska Institute, Stockholm, Sweden 2007-

**Previous Appointments**

Clinical Instructor in Cariology (University of Helsinki) 1973 - 1980

Resident in Internal Medicine (Maria Hospital, Helsinki) 1980

Assistant Professor in Cariology (University of Helsinki) 1981 - 1992

Senior Research Fellow (The Academy of Finland) 1981 - 1982

Associate Professor and Head of the Department of

Oral Pathology (University of Helsinki) 1983

Associate Professor in Cariology (University of Helsinki) 1986

Professor of Preventive Dentistry and Cariology and Head

of the Department (University of Oulu) 1987 - 1988

Visiting Scientist (Université Louis Pasteur, Faculté de

Chirurgie Dentaire, Strasbourg, France) 1989 - 1990

Dean, Faculty of Dentistry (University of Kuopio) 1993 - 1995

Professor in Dentistry and Head of the Department of Oral and

Dental Diseases (University of Kuopio) 1992 - 1996

Dean (Institute of Dentistry, University of Helsinki) 1998 – 2003

Vice-Dean, Faculty of Medicine, University of Helsinki 2002 - 2006

Visiting Professor, Malmö University, Faculty of Odontology 2009

**Presentations**

Extensive outside postdoctoral lectures on various topics on oral health and

medicine, both home and abroad.

**External Commitments**

Member of Executive Committee of the Scandinavian

Division of the International Association for Dental Research (IADR) 1972 - 1982

Consultant to the Federation Dentaire Internationale 1978 - 1980

Chairman of Committee for Continuing Education of the

Finnish Dental Society 1985 - 1988

Symposium Organizer, IADR Dublin Congress 1989

President, Scandinavian Association for Dental Research,

Finnish Section (IADR) 1989 - 1992

Councillor, Administration of Social Affairs and Health 1992 -

Chairman, Museum of Dental History, University of Helsinki 1995 - 2002

Councillor, National Research and Developmental Centre for

Welfare and Health 1995 - 1998

President, IADR Scandinavian Division 1990 - 1992

Councillor, International Association for Dental Research 1992 -

Consultant, Ministry of Education 1995 -

Secretary General, IADR Scandinavian Division 1997 - 2001

Secretary General, IADR Scandinavian Division (second term) 2002 - 2006

Consultant, National Research and Development Centre for

Welfare and Health 1999 -

Consultant, National Authority for Medico Legal Affairs 1992 – 2008

Scientific Board, XXXIII International Congress on

Military Medicine, Helsinki2000

Assessor for dental education at Karolinska Institute, Stockholm 1999 – 2000

Assessor for Association of Dental Education in Europe, Dresden 2000

The Social Insurance Institution of Finland, Advisory Board member 2000 –

The Social Insurance Institution of Finland, Vice-Chair of Advisory Board 2013 -

Assessor, Scientific Advisory Board, Faculty of Medicine,

University of Geneva, Switzerland 2003

Board member, Oral and Maxillofacial Surgery Fund, Paulo Foundation 2003 -

Ministry of Social Affairs and health, Commission on Development

of Drug Therapy 2006 – 2009

Helsinki University Museum Council 2006 – 2010

The Centre for Pharmacotherapy Development 2006 – 2009

Meilahti-campus president 2004 - 2007

Meilahti-hospital building project, Board member 2007 – 2008

University of Iceland Faculty of Pharmacy,

Member of doctoral committee 2007

Board member, Department of Surgery, Helsinki and

Uusimaa Hospital district 2004 - 2008

Finska Läkaresällskapet, Member 2007 -

Board Member, Niilo Helander Foundation 2007 -

Advisor, International Life Sciences Institute, Bruxelles, Belgium 2008 –

Regional Board Member (European), IADR 2008 – 2010

Advisor, European Food Safety Authority, Parma, Italy 2009 – 2015

Council Member, Initiative for Science in Europe 2007 – 2014

Finnish Society of Sciences and Letters, Chairman of the Section of

Biosciences 2011 – 2016

Finnish Society of Sciences and Letters, Vice-President 2016 - 17

President, Pan-European Region of the IADR 2012 –14

Assessor for research and education, University of Oslo, Norway 2013 –

Vice-President, IADR 2014 –15

President-elect, IADR 2015-

Editorial Board Member, Oral Diseases 2014 –

Assessor, ACTA, University of Amsterdam 2014

Assessor, TI Food & Nutrition, Amsterdam 2015

**Scientific research interests**

Research interests have been focused on oral epidemiology, oral micro­biolo­gy and patho­lo­gy, with special emphasis on oral symptoms and signs and the role of oral infections in vari­ous diseases among medically compro­mised patients. The fin­dings have been repor­ted in o­ver 300 original peer-reviewed papers and re­views. Earlier publi­cations addressed streptococcal cell wall constituents in the adsorption process and experimental chemotherapy of dental plaque bacteria. Papers have also been published on pathogenesis and causes of dental erosion and on the effect of laser irradiation on mouth mucosa and dental hard tissues. Later publications have mainly addressed aspects of oral infections, oral medicine and saliva in critically ill patients, particularly cancer and lymphoma patients, and in patients suffering from cardio-vascular diseases, chronic gastrointestinal diseases, diabetes, rheumatic, renal and liver diseases, pregnancy complications, and the elderly. Activity has been devoted on the development and application of molecular biological techniques in detecting oral pathogens from saliva and tissue samples. A new research area of probiotic bacteria and their general and oral health effects has been started together with studies on oral yeast infections and their virulence factors, in particular in oral cancer patients. The role of oral infections in carcinogenesis is a new front recently addressed in the study group.

**Declared competent**

Associate Professor in Cariology (University of Helsinki) 1980

Professor in Cariology (University of Turku) 1988

Professor in Preventive Dentistry and Cariology

(University of Kuopio) 1991

Professor of Oral Epidemiology and Preventive Dentistry

(University of Zürich) 1995

**Prizes and honours**

La Medaille d'Argent, Ville de Paris 1991

Arje Scheinin medal no. 5 (in silver), Finnish Dental Society 1991

Pehr Gadds Prize, Odontologiska Samfundet i Finland 1992

Pohjola Prize 1992

Finnish Dental Association, Silver Medal 1993

Duodecim-prize, best editorial 1995

Eero Tammisalo medal (in silver), Finnish Dental Association 1999

Acta Odontologica Scandinavica, Best Article of the Year 2001

Education Technology Prize, University of Helsinki 2001

Le titre de **Docteur honoris causa**, de l’Université Louis Pasteur 2004

SalusAnsvar Prize, Ulf Nilsonne Foundation, Stockholm 2004

Distinguished Scientist Award in Geriatric Oral research,

IADR, Baltimore 2005

The Finnish Society of Sciences and Letters invited member 2005

Deutsche Akademie der Naturforscher Leopoldina,

invited member 2005

The Best Article Published in the year 2005 in Acta

Odontologica Scandinavica 2006

**Doctor honoris causa**, Karolinska Institute, Stockholm 2007

Acta Odontologica Scandinavica ”Stora Priset” 2007

**Doctor honoris causa** by Medical University Plovdiv 2009

IADR Plaque of Merit, Barcelona 2010

Fellow ad hominem, Royal College of Surgeons of Edinburgh 2012

Writer´s Prize, Journal of the Finnish Dental Association 2014

**Decorations**

Knight, First Class, of the Order of White Rose of Finland,

an honour conferred by the President of Finland 1996

Knight (KLJ), The Military and Hospitaller Order of

Saint Lazarus of Jerusalem 2011

**Registered PhD students and their programmes (2014):**

Markku Qvarnström (Surakka) (Univ. of Kuopio) Oral health in patients referred to open-heart surgery; He Xiangyi (Univ. of Helsinki) Oral yeast infection in patients with cancer of the head and neck; Vesa Karhunen (Univ. of Helsinki) Effect of oral infections on sudden cardiac death – a post-mortem study;; Karita Nylund (Univ. of Helsinki) Oral health in rheumatic diseases; Qingru Jiang (Univ. of Helsinki) Virulence factors of probiotic bacteria; Ali Nawaz (Univ. of Helsinki) Non-albicans Candida; Eunice Virtanen (Univ. of Helsinki) Oral infections and cancer; Leena Äyräväinen (Univ. of Helsinki) Oral health in patients with rheumatic disease; Hanna Poulsen (Univ. of Helsinki) Oral health in pre-diabetes and diabetes. Anna Julkunen (Univ. of Helsinki) Oral health and autoimmune diseases (pending).

**Other academic activities**

*Doctoral theses supervised:*

DDS, PhD Marita Luomanen: Effect of CO2 laser surgery on rat mouth mucosa. 1987 (Univ. of Helsinki)

DDS, PhD Varpu Järvinen: Dental erosion. 1990 (Univ. of Helsinki)

DDS, PhD Tuomo Nuuja: Use and effects of experimental antiplaque prepa­ration in military medicine. 1993 (Univ. of Helsinki)

DDS, PhD Pekka Laine: Oral findings in lymphoma patients during cytos­tatic chemot­herapy. 1993 (Univ. of Helsinki)

DDS, PhD Ari Rajasuo: Third-molar-related problems in Finnish consc­ripts. 1994 (Univ. of Helsinki)

DDS, PhD Tuomas Waltimo: Yeasts in apical periodontitis occurrence, biotypes and *in vitro* susceptibility. 2000 (Univ. of Helsinki)

DDS, PhD Anja Kotiranta: Crystalline surface protein layers and surface properties in some gram-positive bacteria isolated from the oral cavity. 2000 (Univ. of Helsinki)

DDS, PhD Hanna-Leena Collin: Oral health in type 2 diabetic patients. 2000 (Univ. of Helsinki)

DDS, PhD Panu Rantonen: Salivary flow and composition in healthy and diseased adults. 2003 (Univ. of Helsinki)

DDS, PhD Shyama Maddi: Oral health in a non-institutionalized disabled school population. 2004. (Univ. of Helsinki)

DDS, PhD Gunnsteinn Haraldsson: Oral commensal Prevotella species and Fusobacterium nucleatum: Identification and potential pathogenic role. 2005 (Univ. of Helsinki)

DDS, PhD Piia Hämäläinen: Oral health status as a predictor of changes in general health among elderly people. 2005 (University of Helsinki)

PhD Katja Hatakka: Probiotics in the prevention of clinical manifestations of common infectious diseases in children and in the elderly. 2007 (University of Helsinki)

DDS, PhD Sari Kervanto-Seppälä: Arresting occlusal enamel caries lesions with pit and fissure sealants. 2009 (University of Helsinki)

DDS, MSc Pirjo Pärnänen: Candida proteinases in the degradation of oral mucosal tissue components associated with Candida invasion. 2010 (University of Helsinki)

DDS, PhD Iva Stamatova: Probiotic activity of Lactobacillus delbrueckii subsp. bulgaricus in the oral cavity. 2010 (University of Helsinki)

DDS, PhD Laura Tarkkila: Oral health and menopause. 2011 (University of Helsinki)

DDS, PhD Anna-Maria Heikkinen: Teen-age smoking and oral health 2011 ( Univ. of Helsinki)

MD, DDS Maarit Vesterinen: Oral health and kidney disease with emphasis on diabetic nephropathy 2011 (Univ. of Helsinki)

PhD Maha Yakob: Association between oral biofilm, periodontal disease, and systemic health with focus on atherosclerosis and breast cancer 2012 (Karolinska institute, Stockholm and Univ. of Helsinki)

DDS, PhD Aura Heimonen: Oral Health in pregnancy 2012 (Univ. of Helsinki).

DDS, PhD, MSc Jaana Helenius-Hietala Oral health in liver transplant patients 2013 (Univ. of Helsinki)

*External examiner of Doctoral Theses:*

DDS, PhD Satu Alaluusua: Streptococcus mutans establishment and changes in salivary IgA in young children with reference to dental caries.

1983 (Univ. of Helsinki)

PhD Maria Saarela: Sero- and ribotypic characterization of some oral patho­gens. 1993 (Univ. of Helsinki)

DDS, PhD Riitta Pajukanta: Antimicrobial susceptibility of the principal periodontopat­hogens. 1994 (Univ. of Helsinki)

MDS Lesley Fung: Investigations into the generation and control of endoge­nous erosion, using in vitro models. 1994 (Univ. of Adelaide)

DDS, PhD Lauri Vaahtoniemi: Bacterial attachment to oral epithelial cells in vivo. 1998 (Univ. of Oulu)

DDS, PhD Riitta Leimola-Virtanen: The role of estrogens in oral mucosal health and saliva. 1999 (Univ. of Turku

DDS, PhD Kari Soikkonen: Radiographic oral findings and death in the elderly. 1999 (Univ. of Oulu)

DDS, PhD Sirpa Anttila née Vimpari: Depressive symptoms in relation to oral health and related factors in a middle-aged population. 2003 (Univ. of Oulu)

DDS, PhD Johanna Tanner: Adhesion of oral microbes to dental fiber reinforced composites. 2003 (Univ. of Turku)

DDS, PhD Kåre Buhlin: The role of periodontitis in cardiovascular disease. 2004 (Karolinska Insitute, Stockholm).

DDS, PhD Matthias Zehnder: Efficacy and interactions of root canal irrigants and dressings. 2005 (Univ. of Turku)

DDS, PhD Håkan Flink: Unstimulated human whole saliva flow rate in relation to hyposalivation and dental caries. 2005 (Karolinska Insitute, Stockholm).

DDS, MD Helena Domeij: Expression and regulation of MMP-1 and MMP-3 in human gingival fibroblasts. 2005 (Karolinska Institutet, Stockholm)

DDS, PhD Merja Lähteenmäki: Anesthesia and oral mucosal host defense assessed in human saliva. 2006 (Univ. of Turku)

*Internal examiner of Doctoral Theses:*

DDS, PhD Irja Ventä: Third molars in young adults. 1993 (Univ. of Helsin­ki)

MD, PhD Leena Halme: Crohn's disease. 1993 (Univ. Of Helsinki)

DDS, PhD Kai Masalin: Caries-related factors in confectionery workers. 1994 (Univ. of Hel­sinki)

DDS, PhD Timo Närhi: Salivary findings in the elderly. 1994 (Univ. of Hel­sinki)

Dott. Pier Carlo Calderara: Nuovi Polimeri Organici in Odontoiatria 1994 (Univ. of Bologna)

MD, PhD Kaiu Prikk: Development and progression of tissue injury in chronic inflammatory airway diseases with special respect to matrix metalloproteinases 2003. (Univ. of Helsinki).

DDS, PhD Miia Helenius: Oral and temporomandibular joint findings in rheumatic diseases 2005. (Univ. of Helsinki)

## Pro Gradu assessor

Aila Ahola: Probioottijuuston vaikutus karieksen riskitekijöihin 2001 (Helsingin

yliopisto)

Pirjo Pärnänen: Ienkudoksen tyvikalvon humaani laminiini-332:n eristys ja hajotuskokeet kuuden eri *Candida-*hiivasienilajin proteaaseilla. 2007 (Helsingin yliopisto)

**Faculty opponent of doctoral theses:**

PhD Anja Anttila: Concentration of lead and some other trace elements in deciduous teeth measured by proton-induced-x-ray emission. 1987 (Univ. of Hel­sin­ki)

DDS, PhD Ulla Pajari: Effect of anti-neoplastic therapy on dental hard tissues and sa­liva in children and adolescents. 1988 (Univ. of Oulu)

DDS, PhD Antti S. Aaltonen: Natural immunity in dental caries. 1989 (Univ. of Turku)

MSc Joseph Hemmerle: Etude ultrasructurale comparative de la biocompatibilite de differentes bioceramiques implantees dans le parodonte humain. 1990 (Univ. Louis Pasteur, Strasbourg)

DDS, PhD Merja Laine: Female sex steroid hormones, salivary glands and saliva. 1991 (Univ. of Turku)

DDS, PhD An Ni: Caries development and prediction in children and adolescents. 1993 (U­niv. of Hel­sin­ki)

DDS, PhD Catarina Wallman: On mutans streptococci in margins of restorations. 1994 (Univ. of Göte­borg)

DDS, PhD Enas Badawi Bashir: Oral clearance of citric acid and its effect on enamel erosion 1996 (Karolinska Institute, Stockholm)

DDS, PhD Jyrki Kivelä: Human salivary carbonic anhydrase isoenzyme VI. 1999 (Univ. of Oulu)

DDS, PhD Mats Bågesund: Saliva in children with leukemia 2000 (Karolinska Institute, Stockholm)

MD, PhD Patricia Stoor: Interactions between oral and nasal microorganisms and the bioactive glass S53P4 with special reference to nasal cavity surgery 2001 (Univ. of Turku)

DDS, PhD Jorma Leistevuo: Dental Amalgam Fillings: Inorganic and Organic Mercury in the Oral and Gastrointestinal Environment 2002 (Univ. of Turku)

DDS, PhD Helena Yli-Urpo: Glass polyalkenoate cements containing bioactive glass. 2005 (Univ. of Turku)

DDS, PhD Abdulaziz Saad Aljehani: Application of two fluorescence methods for detection and quatification of smooth surface carious lesions. 2006 (Karolinska Institute, Stockholm)

DDS, PhD Vuokko Anttonen: Laser fluorescence in detecting and monitoring the progression of occlusal dental caries lesions and for screening persons with unfavourable dietary habits. 2007 (Univ. of Oulu)

DDS, PhD Håkan Flink: Studies on the prevalence of reduced salivary flow rate in relation to general health and dental caries, and effect of iron supplementation. 2007 (Karolinska Institutet, Stockholm)

DDS, PhD Anders Holmlund: Oral health and cardiovascular disease. 2008 (Univ. of Uppsala)

DDS, PhD Kaja Leskinen: Fissure sealants in caries prevention – A practice based study using survival analysis. 2010 (Univ. of Oulu)

DDS, PhD Mette Kirstine Keller: Probiotic Lactobacilli: Srtudies on possible interactions with the oral microflora. 2012 (Univ. of Copenhagen)

PhD Anna Oksaharju: Effects of proatherogenic and probiotic bacteria on mast cells and inflammation. 2012 (Univ. of Helsinki)

DDS, PhD Virginia Garcia Garcia: Expression de antigenos sanguineos y proteinas de choque termico ex el carcinoma oral de celulas excanosas lesions potencialmente malignas y mucosa control. 2012 (Complutense Univ. of Madrid)

DDS, PhD Tuomas Saxlin: Periodontal infection and obesity – results of a population based survey. 2012 (University of Oulu)

PhD Lena Hellqvist: Smoking, snuffing and oral health with special reference to dental caries. 2012 (University of Göteborg)

DDS, PhD Georgios Tsilingaridis: Inflammatory response in periodontal tissue in children with Down syndrome. 2013 (Karolinska institutet, Stockholm)

DDS, PhD Anders Hedenbjörk Lager: Dentine caries: Acid-tolerant micro-organisms and aspects on collagen degradation. 2014 (Malmö University, Sweden)

MD, RDH, PhD Sara Szymanska: Oral health in patients with Crohn´s disease. 2015 (Karolinska Institutet, Stockholm )

DDS Aino Toiviainen: Probiotics and oral health: In vitro and clinical studies. 2015 (Univ. of Turku).

DDS, PhD Jenny Bogstad Sövik: Dental erosive wear among 16-18 year-old Norwegian adolescents. 2015 (University of Oslo)

DDS, PhD Cecilia Zeigler: Associations between obesity, periodontal inflammation, subgingival micrtoflora and salivary flow rate. 2015 (Karolinska Institutet, Stockholm).

**Assessor for professorships and docents:**

Chair in endodontics, Univ. of Oslo, 1995 (M. Haapasalo)

Docent, Univ. of Turku, 1984 (E. Söderling)

Docent, Univ. of Turku, 1999 (M. Laine)

Docent, Univ. of Oulu, 2001 (L. Tjäderhane)

Docent, Univ. of Oulu, 2002 (H. Forss)

Professor, Univ. of Hong Kong 2012 (J.P. Matinlinna)

Professor, University of Tampere 2014 (Timo Peltomäki)

Professor of xxxx Karolinska Insitutet (2015)