

# Curriculum Vitae

Date of CV: 6<sup>th</sup> May 2020



## Personal details

**Name:** Määttä, Jorma Antero

**ORCID:** 0000-0001-8752-6862

**Date and Place of Birth** 10<sup>th</sup> April 1968, Pielisjärvi

**Nationality** Finnish

**Marital status** Married

## Education and degrees completed

Doctor of Philosophy 17.8.1998, University of Turku, Medical Faculty

Master of Science 11.3.1993, University of Turku, Biotechnology

High school graduation 31.5.1987, Rauhala High School, Lieksa

**Title of Docent** 27.3.2006 Docent (Adjunct Professor) of Molecular Cell Biology, Institute of Biochemistry, University of Turku.

**Other education** 21.6.2018 Official teacher's qualification (decree 794/2004; 60 credits ECTS B), University of Turku, Faculty of Education.  
Radiation safety principal, 2007, University of Helsinki

**Language skills** Finnish (mother tongue), English (excellent), Swedish (meets the official requirements for public servants in Finland: decree A442/87), German

**Current position** University Lecturer, Principal Investigator, University of Turku, Institute of Biomedicine 1.1.2018 -

## Previous work experience

- 1.1.2016 – 31.12.2017 University Research Fellow at the University of Turku, Institute of Biomedicine  
1.9.2011 – 31.12.2015 University Research Fellow at the University of Turku, Department of Cell Biology and Anatomy (50%) and the University of Eastern Finland, School of Pharmaceutics (50%)  
1.9. 2007 – 31.8.2011 Senior Scientist, Bone Analysis Unit Manager of Turku Center for Disease Modeling  
1.1.2006 – 31.8.2007 Senior Scientist, Professor Kalervo Väänänen's research group, Department of Anatomy, University of Turku  
1.9.2005 – 31.12.2005 Senior Scientist, Professor Pirkko Härkönen's research group, Department of Anatomy, University of Turku  
1.1.2004 – 31.8.2005 Senior Scientist, Docent Markku Salmivirta's research group Turku Centre of Biotechnology  
1.8.2003 – 31.12.2003 Postdoctoral Researcher in Docent Klaus Elenius's research group, Medicity Research Laboratory, University of Turku  
1.8.2002 – 31.7.2003 Postdoctoral Researcher of the Foundation of the Finnish Cancer Institute  
1.8.1999 – 31.7.2002 Postdoctoral Researcher of the Academy of Finland  
1.1.1999 – 31.12.2004 Postdoctoral Researcher in Docent Klaus Elenius's research group, Medicity Research Laboratory, University of Turku  
1.7.1998 – 31.12.1998 Research Fellow in Docent Ari Hinkkanen's research group Department of Biochemistry and Pharmacy, Åbo Akademi University  
1.2.1995 – 30.6.1998 Turku Post Graduate School of Biomed. Sciences, post graduate student  
1.1.1993 – 31.1.1995 Research assistant, Department of Virology, University of Turku  
1.6 – 31.8. 1991, 1992 Research assistant, Department of Virology, University of Turku  
4.6.1990 – 31.8.1990 Research assistant, Huhtamäki Oy Leiras Ltd. Biotechnological Research Laboratory

**Career breaks** Paternity leave 1.9.2007 – 30.9.2007; Military service, 13.6 1988 – 8.5.1989, SissiK/P-KR

## Personal research funding and grants (last 5 years)

2019 – 2023 Academy of Finland, "Artificial Dura Mater Substitute in Calvarial Implant Ossification" (ADMIO) 428 000 €

|             |                                                                                            |
|-------------|--------------------------------------------------------------------------------------------|
| 2019        | Business Finland, UTU “HOT-Ecosystem”, Co-Creation fund, 86 600 €                          |
| 2017        | University of Turku, strategic infrastructure fund for high-resolution $\mu$ CT, 350 000 € |
| 2015 – 2018 | TEKES, “Downregulation of inflammation by novel SERMs”, 760 000 €                          |
| 2011 – 2015 | Academy of Finland: Micro-RNA regulation of skeleton, 1.9.2011 – 31.3.2016, 350 000 €      |

## **Leadership and supervision experience**

**Vice director** of Integrative Physiology and Pharmacology Research, Institute of Biomedicine, University of Turku, 2017 –

**Director** of Medisiina Imaging Center, Institute of Biomedicine, University of Turku, 2019 -

**Principal Investigator:** 2019 – Academy of Finland. ADMIO consortium, decision # 323597-1; 2015-2018 TEKES, decision #473/31/15 “Downregulation of inflammation by novel SERMs: Mechanisms of action”; 2011-2015 Academy of Finland, decision #250917 “Local and systemic regulation of skeletal tissue homeostasis by miRNAs”; 2012-2015, EU FP7 Marie Curie ITN “Bone-Net” agreement #264817.

**Course Principal** in teaching: 2014, UEF.

### **Supervision of post-doc researchers:**

Lauri Polari, Ph D. 1.9.2015 – 2019; Sofia Coimbra de Sousa, Ph D. 1.12.2015 – 31.3.2016

### **Completed thesis supervision**

Sofia Coimbra de Sousa (2015)

Ameya Bendre (2017)

Co-supervision: Yevheniia Ischenko (2017, UEF)

Ongoing, principal supervision: MD Hristo Zlatev, B. M. Santeri Anttila; M. Sc Karoliina Kajander

co-supervision: M. Sc. Jussi Mäkilä, M.Sc Milja Arponen

### **Master’s degree supervision:**

Completed: Karoliina Kajander (2020), Anu Wiklund (2018), Mervi Laanti (2017), Juha Piltti (2016, UEF), Jessica Kähäri (2012), Vappu Nieminen-Pihala (2011), Johanna Saarimäki (2011), Heidi Liljenbäck (2009), Susanna Kortessuoma (2008)

### **Bachelor’s degree supervision:**

Nina Koponen (UEF, 2015), Susanna Kulusjärvi (UEF, 2014), Mari Oksman (UEF, 2014), Laura Ainali (UEF, 2014), Sini Nieminen (UEF, 2013), Rami Ojarinta (UEF 2013)

### **Bioanalytics degree supervision:**

Mira Hannolin 2017, Anna-Kaisa Andersson 2017, Anu Wiklund 2016, Anni-Mari Tuori 2014

## **Teaching experience**

### **Lectures for doctoral studies:**

2011 TCDM3101 Practical Training in In vivo Imaging Techniques, “ $\mu$ CT Scan and Analysis”

2001 Lecture on biomedical doctoral studies, ErbB-receptors

### **Lectures for masters’ degree / medical doctor studies:**

2013 – 2020 Nutrition and the skeleton; 2011 – 2020 “Animal models for skeletal diseases”; 2011 – 2015 “Biochemical and biotechnological methods in pharmacy”, UEF; 2011 – 2015 “Basics of cell culture in pharmacy”, UEF. Course principal 2014; 2011 – 2019 “Bone sample preparation, imaging”; 2008 – 2015 “Bone as drug development target”; 2012 – 2013 Biotechnology in pharmaceuticals, UEF; 2011 – 2012 Endocrinology series: “Calcium and phosphate metabolism”; 2008 – 2009 “The nucleus and nuclear transport”; 2008 “Sex Steroid Regulation of Bone”, Institute of Biochemistry; 2010, – 2011 “Histology of bones and skeletal animal models”, animal pathologist, University of Helsinki; 2006 “Meet an Expert”-bone biology and analysis for medical students.

**Other lectures:** 2010 Radiation safety for university personnel; 2007 Use of radiation in animal experiments

**Contact teaching:**

2013 – 2020, Microscopy, histology, studies on living cells (three separate courses); 2012 – 2020, Eye dissection; 2012 – 2020, “Structure and function of lungs, circulation and the kidney”; 2012 – 2019 “Micro-CT as bone imaging instrument”; 2010, 2011 Histology of the genitals; 2011 “uCT Scan and Analysis”; 1998 “Practical Protein Chemistry”, Åbo Akademi, Institut för Biokemi och Farmaci.

**Experience of organizing scientific meetings:**

2015-2019 annual Finnish Bone Society symposia, responsible organizer 20-40 participants; 4.-8.2.2013, International workshop “Development of Novel Pharmacological Therapies”, Kuopio (25 participants).

**Patents, inventions, awards and honours**

**Patents:** Purification method for myelin basic protein, Määttä J. A. and Hinkkanen A. E. Patent granted in United States US5,849,886 and EPO countries, EP 0819700 A1.

**Innovation Announcements:** Diary number 727.02.07.03.01.14 (2014, UEF); 3783\_001 (2017, UTU).

**Awards and honours:**

2017 Silver Badge of Honor, Federation of Finnish Learned Societies; 2009 Shortlisted for the position of Academy Research Fellow (Academy of Finland); 2004 Shortlisted for the position of Academy Research Fellow (Academy of Finland)

**Other key academic merits****Scientific expert duties**

**Thesis reviewer,** 2011 Johanna Raikkönen (UEF)

**Review of funding applications:** 2018 Netherlands Organization for Scientific Research, ViDI –program; 2017 Breast Cancer NOW, United Kingdom; 2017 Prostate Cancer Foundation UK; 2015, Willy Gepts Foundation, Netherlands,

**Reviewer for Scientific Journal Articles:** 2003-2020 Several articles in: Biological Chemistry, Experimental Cell Research, Immunology, Journal of Molecular Histology, Journal of Neuroscience, Journal of Endocrinology, Toxicology, PlosOne, Cancer Letters, Molecular and Cellular Endocrinology, Autophagy, Journal of Bone Oncology, Cells, Clinical Science, Pharmacological Research, Journal of Innate Immunity.

**Refereed scientific publications: 44****Positions of trust**

2018 – Medical Faculty board member.

2017 – Member of steering board of the Institute of Biomedicine

2016 – 2019 Chair of the Finnish Bone Society; 2015, Secretary of Finnish Bone Society

**Membership in scientific societies**

European Calcified Tissue Society, Suomen Syöpätutkijat ry., Suomen Immunologiyhdistys ry., Suomen Endokrinologiyhdistys, Anatomici Fenniae, Finnish Bone Society.