**CURRICULUM VITAE Publons** B-9291-2008, **ORCID:** 0000-0002-6181-9904

**1. FULL NAME AND AFFILIATION**

Name: Lammi, Mikko Juhani (male)

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**2. DATE AND PLACE OF BIRTH, NATIONALITY AND CURRENT RESIDENCE**

Date and place of birth, nationality: Alahärmä, December 29, 1961, Finnish

Current residence: Stipendiegränd 2 E 1302, 907 30 Umeå

**3. EDUCATION AND DEGREES AWARDED**

**Degree Institute** **Year**

Title of Docent (cell biology) University of Kuopio, Kuopio 1999

Ph.D (biochemistry) University of Kuopio, Kuopio 1993

M.Sc. (biochemistry) University of Kuopio, Kuopio 1986

High school graduate Muhos senior high school, Muhos 1980

**4. OTHER EDUCATION AND TRAINING, QUALIFICATIONS AND SKILLS**

Post-doc education at Institut für Experimentelle Medizin, Universität Erlangen-Nürnberg in professor Klaus von der Mark's laboratory, October 1994-July 1996, 21 months

**5. LINGUISTIC SKILLS (Europass Language Passport self-assessment)**

Finnish: mother tongue

English: listening C1, reading C1, spoken interaction C1, spoken production C1, writing C2

Swedish: listening B1, reading C1, spoken interaction A2, spoken production A2, writing C1

German: listening B1, reading B1, spoken interaction B1, spoken production B1, writing B1

**6. CURRENT POSITIONS**

**Professor** in Histology and Cell Biology, Department of Integrative Biology, University of Umeå, October 2017-

Part-time distinguished **professor**, Xi'an Jiaotong University, Xi'an, China, September 2015-

**7. PREVIOUS WORK EXPERIENCE**

**Principal investigator**

1. **University lecturer**, Department of Integrative Biology, University of Umeå, January 2015-September 2017

2. **Research director**, Department of Applied Physics, University of Eastern Finland, August 2014-December 2014

3. **Professor** in Tissue and Cell Biology, Institute of Biomedicine, University of Eastern Finland, January 2014-July 2014

4. **Professor** in Animal Cell Biology, Institute of Biomedicine, University of Eastern Finland, January 2012-December 2013

5. **Professor** in Animal Cell Biology, Department of Biosciences, University of Eastern Finland, February 2011-December 2011

6. **Professor** in Biochemistry, Department of Biosciences, University of Eastern Finland, January 2010-January 2011

7. **Professor** in Biochemistry, Department of Biosciences, University of Kuopio, February 2009-December 2009

8. **Professor** in Animal Cell Biology, Department of Biosciences, University of Kuopio, May 2008-January 2009

9. **Senior assistant**, Institute of Biomedicine, Department of Anatomy, July 2007-April 2008

10. **Professor** in Anatomy, Institute of Biomedicine, Department of Anatomy, January 2007-June 2007

11. **Senior assistant**, Institute of Biomedicine, Department of Anatomy, July 2006-December 2006

12. **Professor** in Anatomy, Institute of Biomedicine, Department of Anatomy, January 2006-June 2006

13. **Senior assistant**, Department of Anatomy, University of Kuopio, September 1995-December 2005

**Post-doctoral researcher**

1. **Post-doc** in Germany, October 1994-July 1996

2. **Assistant**, Department of Anatomy, University of Kuopio, October 1994-August 1995

3. **Senior assistant**, August-September, 1994

4. **Assistant**, Department of Anatomy, University of Kuopio, July 1994

5. **Lecturer**, Department of Anatomy, University of Kuopio, June 1994

6. **Assistant**, Department of Anatomy, University of Kuopio, November 1993-May 1994

**PhD student**

1. **Assistant**, Department of Anatomy, University of Kuopio, July 1993-October 1993

2. **Researcher**, Department of Anatomy, University of Kuopio, April-July 1993

3. **Assistant**, Department of Anatomy, University of Kuopio, January-March 1993

4. **Researcher**, grants from the Sports Scientific Council of the Ministry of Education, 1990-92

5. **Research assistant**, Academy of Finland project, Department of Anatomy, University of Kuopio, February 1988-January 1989

6. **Research assistant**, Department of Anatomy, University of Kuopio, February 1987-January 1988

**Career breaks**

1. Military service, August 1991-April 1992

**8. RESEARCH AND SCIENTIFIC ACTIONS**

**8.1. Research funding, leadership and supervision**

1. Tornspiran foundation, 2018, 60.000 SEK

2. National Natural Science Foundation of China, 2017-2021 (2,360,000 RMB), together with professor Xiong Guo, Xi’an Jiaotong University, Xi’an, China

3. Insamlingstiftelse, 2017 (60.600 SEK), PI in charge

4. Reumatikerfonden, 2016 (100.000 SEK), PI in charge

5. Insamlingstiftelse, 2016 (60.600 SEK), PI in charge

6. Medical Faculty of Umeå University 2015-2016 (500.000 SEK), PI in charge

7. Medical Faculty of Umeå University 2015-2016, post-doc 24 months, PhD student 48 months, PI in charge

8. University spear head project, NAMBER, 18.000 €, 2014

9. University spear head projects (UEF-STEM and NAMBER) 2x25.000 € annually, 2011-2013, 150.000 €

10. Biocenter Kuopio, 2010-2012 (310.000 €), PI in charge

11. Academy of Finland, 2009-2011 (201.960 €), PI in charge

12. Sigrid Juselius Foundation, 2008(45.000 €), PI in charge

13. Sigrid Juselius Foundation, 2007 (40.000 €), PI in charge

14. Sigrid Juselius Foundation, 2006 (40.000 €), PI in charge

15. Academy of Finland, 2004 (70.000 €), PI in charge

16. Academy of Finland, 2001 (FIM 750.000, 126.260 €), PI in charge

17. Jenny ja Antti Wihurin säätiö, 1999 (FIM 100.000, 16.830 €), PI in charge

18. Sigrid Juselius Foundation, 1999 (FIM 150.000, 25.250 €), PI in charge

19. Sigrid Juselius Foundation, 1998 (FIM 120.000, 20.200 €), PI in charge

20. Sigrid Juselius Foundation, 1997 (FIM 120.000, 20.200 €), PI in charge

21. Academy of Finland, 1995 (FIM 30.000, 5.050 €), funding for post-doc period in Germany, self-acquired funding, PI professor Klaus von der Mark, Erlangen, Germany

22. Academy of Finland, 1994 (FIM 130.000, 21.880 €), funding for post-doc period in Germany, self-acquired funding, PI professor Klaus von der Mark, Erlangen, Germany

23. Saastamoinen Foundation, 1994 (FIM 60.000, 10.100 €), funding for post-doc period in Germany, self-acquired funding, PI professor Klaus von der Mark, Erlangen, Germany

24. Ministry of Education Sports Scientific Council, 1990-1992 (FIM 280.000, 47.140 €), grant for PhD, self-acquired funding, PI professor Markku Tammi

**9. MERITS IN TEACHING AND PEDAGOGICAL COMPETENCE**

**9.1. Pedagogic training**

1. WebCT platform course, 2 ECTS

**9.2. Present Courses**

1. Organ structure and function, biomedicine students, 8 lectures annually

2. Organ structure and function, dentistry students, 7 lectures, annually

3. Organ structure and function, medical students, 8 lectures annually

4. Case on meningocele, 10 h annually

5. Microscope histology preparate examination, 24 h annually

**9.3. Previous Courses**

1. Basics in Biochemistry, 6 lectures annually on DNA structure and biosynthesis, Bachelor level, 2009-2014
2. Basic Cell Biology 1, 20 lectures annually on cellular organelles and extracellular matrix, 3 ECTS, Bachelor level
3. Basic Cell Biology 2, annually supervising students to prepare presentation on selected topic and commenting the presentations together with other students, 2 ECTS, Bachelor level
4. Stem Cell Biology, organizer of the course, lecturer 3 ECTS, Master level
5. Tutor in chemistry laboratory course, annually 1986-1992
6. Histology, 20 lectures and 18 hours of practicals, 3 ECTS, first year medical students, 1999-2007
7. Cell Biology, 24 lectures, 3 ECTS, first year medical students, 1996-2004
8. Cell and Tissue Biology, 20 lectures, first year medical students, 6 ECTS, 2005-2006
9. Academy of Muscle Biology, Exercise and Health Research PhD Course “Cell biology of extracellular matrix”, 4 lectures and commenting on research projects, Copenhagen, Denmark, 2007
10. General Embyology, 16 lectures, 1 year medical students
11. Cellular Biochemistry, 24 lectures on cell organelles and extracellular matrix, 5 ECTS, Bachelor level, 2008-2011
12. Molecular Biology and Genetics, 6 lectures, Master level, 2008-2011
13. Embryology, 16 lectures, Bachelor level, 2009
14. Cell Signaling, 6 lectures, Bachelor level, 2013

**9.4. Development of learning methods**

1. Production of Cell Biology and Histology web material, which later evolved into Solunetti material ([www.solunetti.fi](http://www.solunetti.fi)), supported by Ministry of Education for three years

2. Preparation of course material for Proteoglycans PhD course, 1995

**9.5. Supervised theses**

1. Ph.D. Matti Jortikka, University of Kuopio, Biochemistry, 1999 (principal supervisor)

2. M.D. Ph.D. Kai Kaarniranta, University of Kuopio, Medicine, 2002

3. M.D. Ph.D. Reijo Sironen, University of Kuopio, Medicine, 2004 (principal supervisor)

4. Ph.D. Ritva Inkinen, University of Kuopio, Applied Animal Sciences, 2004 (principal supervisor)

5. Ph.D. Vet. Olli Mäkelä, University of Helsinki, Veterinary Medicine, 2005

6. Ph.D. Kirsi Rilla, University of Kuopio, Cell Biology, 2006

7. M.D. Ph.D. Mika Elo, University of Kuopio, Medicine, 2006 (principal supervisor)

8. M.D. Ph.D. Janne Sahlman, University of Kuopio, Medicine, 2007 (principal supervisor)

9. M.D. Ph.D. Chengjuan Qu, University of Kuopio, Medicine, 2007 (primary supervisor)

10. Ph.D. Hertta Pulkkinen, University of Eastern Finland, Applied Biotechnology, 2012 (principal supervisor)

11. Ph.D. Siru Turunen, University of Eastern Finland, Physics, 2013

12. Ph.D. Hannu Karjalainen, University of Eastern Finland, Cell Biology, 2014, (principal supervisor)

13. Ph.D. Jarkko Leskinen, University of Eastern Finland, Physics, 2015

14, Ph.D Janne Ylärinne, University of Umeå, Biomedicine, 2016 (principal supervisor)

15. Ph.D. Juha Piltti, University of Umeå, Biomedicine, 2017 (principal supervisor)

16. Ph.D. Juha Prittinen, University of Umeå, Biomedicine, 2017 (principal supervisor)

17. Ph.D. Mari Huttu, University of Eastern Finland, Biomedicine, 2017

**9.6. Other supervised graduate works**

1. Matti Jortikka, master's thesis, University of Kuopio, biochemistry, 1993

2. Kristiina Patja, advanced special studies, University of Kuopio, medicine, 1996

3. Riitta-Liisa Patovirta, advanced special studies, University of Kuopio, medicine, 1996

4. Reijo Sironen, master's thesis, University of Jyväskylä, molecular biology, 2000

5. Kai Kaarniranta, master's thesis, University of Kuopio, biotechnology, 2000

6. Hannu Karjalainen, master's thesis, University of Kuopio, biotechnology, 2000

7. Monica Yabal, master's thesis, University of Kuopio, biotechnology, 2001

8. Hertta Pulkkinen, master's thesis, University of Kuopio, applied biotechnology, 2005

9. Outi Pulliainen, master's thesis, University of Kuopio, applied biotechnology, 2006

10. Juha Piltti, master’s thesis, University of Kuopio, biochemistry, 2008

11. Teemu Pöytäkangas, advanced special studies, medicine, University of Eastern Finland, 2010

11. Anniina Muhonen, master’s thesis, University of Eastern Finland, biotechnology, 2011

11. Riikka Nivajärvi, master’s thesis, University of Eastern Finland, biotechnology, 2012

12. Taru Makkonen, advanced special studies, University of Eastern Finland, medicine, 2013

13. Janne Ylärinne, master’s thesis, University of Eastern Finland, 2014

**10. AWARDS, PRIZES AND HONOURS**

1. Honor award for International Scientific Cooperation of Shaanxi Province, Xi’an, China, 2011

2. Nomination for adjunct professorship 2010-2015, Xi’an Jiaotong University, Xi’an, China

**11. OTHER ACADEMIC MERITS**

**11.1. Opponent on theses**

1. M.D. Ph.D. Mirva Söderström, University of Turku, 2001

2. M.D. Ph.D. Anne Ahtikoski, University of Oulu, 2004

3. Ph.D. Jukka Morko, University of Turku, 2005

4. Ph.D. Juha Jäälinoja, University of Oulu, 2007

5. Ph.D. Virpi Muhonen, University of Oulu, 2008

6. Ph.D. Marjo Hyry, University of Oulu, 2012

7. M.D. Ph.D. Jiang-Tao Liu, Jiaotong University of Xi’an, 2012 (member of dissertation committee)

8. Ph.D. Kati Drushin, University of Oulu, 2019

9. Bettina Celvin, Karolinska Institute, Stockholm, Sweden 2019

**11.2. Prereviewer of theses**

1. Dent Ph.D. Aila Poikela, University of Oulu, 2000

2. Ph.D. Liisa Nissinen, University of Jyväskylä, 2001

3. LL Ritva Nissi, University of Oulu, 2002

4. M.D. Ph.D. Kirsi Joronen, University of Turku, 2005

5. M.D. Ph.D. Tommi Kuorilehto, University of Turku, 2005

6. Ph.D. Anne Rytkönen, University of Oulu, 2006

7. Ph.D. Hannu-Pekka Leskinen, University of Oulu, 2006

8. Ph.D. Matti Lahti, University of Turku, 2012

9. Ph.D. Salla Laine, University of Turku, 2013

10. Ph.D. Melita Malinen, University of Helsinki, 2014

11. Ph.D. Maria Persson, University of Oulu, 2014

12. Vet. Ph.D. David Gil Marques Borrero Vicente, University of Oulu, 2014

13. Ph.D. Annele Sainio, University of Turku, 2016

14. Ph.D. Jessica Alm, Universit of Turku, 2016

15. M.D. Ph.D. Kristiina Joensuu, University of Turku, 2016

16. Ph.D. Ameya Bendre, University of Turku, Finland, 2017

17. Ph.D. Jussi Heinonen, University of Turku, 2017

18. M.D., Ph.D Anna Koskinen-Kolasa, University of Tampere, 2017

19. D.Dent Tero Puolakkainen, University of Turku, 2018

20. D.Eng. Paula Pennanen, University of Turku, 2019

21. Ph.D. Jani Luukkonen, University of Oulu, 2019

22. Ph.D. M.D. Lauri Tuure, University of Tampere, 2019

**11.3. Reviewer for title of docent**

1. Reviewer for title of docent, Ph.D. Merja Perälä, University of Turku, 2002

2. Reviewer for title of docent, Ph.D. Asta Pirskanen, University of Oulu, 2003

3. Reviewer for title of docent, Ph.D. Liisa Nissinen, University of Turku, 2008

4. Reviewer for title of docent, Ph.D. Markku Varjosalo, University of Helsinki, 2012

**11.4. Other tasks of evaluation**

1. Grant reviewer, Wellcome Trust, Great Britain, 1994

2. Grant reviewer, Biotechnology and Biological Sciences Research Council, Great Britain, 2000

3. Grant reviewer, Arthritis Research Campaign, 2005 ja 2006

4. Grant reviewer, Health Research Board in Ireland, Ireland, 2006

5. Grant reviewer, Latvian Research Council, 2013

6. Reviewer for Orthopaedic Research Society Meeting, 2013

7. Reviewer for Orthopaedic Research Society Meeting, 2014

8. Grant reviewer, Insamlingstiftelse, Umeå, Sweden, 2016

**11.5. Member of scientific societies**

1. Member of the Orthopaedic Research Society, USA, 2011-

2. Vice chair of the Finnish Osteoarthritis Research Society, 2008-

3. Chair of the Finnish Connective Tissue Research Society, 2004-2005

4. Board member of the Finnish Connective Tissue Research Society, 1997-2015

5. Member of Societas Biochemica, Biophysica et Microbiologica Fenniae, 1989

6. Member of the Finnish Connective Tissue Research Society, 1985-

**11.6. Member of steering boards**

1. Member of the organizing committee for Annual Meeting of the Scandinavian Society of Electron Microscopy, Kuopio, June 12-15, 1994
2. Coordinator for the Research Line Curriculum of the medical students, University of Kuopio, 1998-2003
3. Member of the board of the Finnish Graduate School of Musculoskeletal Diseases and Biomaterials, 2006-2015
4. Member of the Finnish Scientific Committee for 20th FECTS Meeting and ISMB, Oulu, July 1-5, 2006
5. Member of Scientific Advisory Board for Fifth Swedish-Finnish Connective Tissue Meeting, Turku, September 24-25, 2009
6. Member of Stem Cells and Biomaterials Infrastructure Network, Biocenter Finland, 2010-2014
7. Member of Scientific Advisory Board for Seventh Nordic Connective Tissue Meeting, Helsinki, September 2014

**11.7. Member of Editorial Boards**

1. Member of the Editorial Board, Biorheology, 5/2005-

2. Member of the Editorial Board, PLoS One, 6/2013-

3. Member of Editorial Review Board, Journal of Orthopaedic Research, 12/2014-

4. Faculty Member in Cartilage Disorders of F1000, 2016-

**11.8. Tasks of trust at the University administration**

1. Board member of the Medical Faculty, University of Kuopio, 1997-2000

2. Vice Head of Biomater Core Facility, University of Kuopio, 2005-2009

3. Head of Department of Biosciences, University of Eastern Finland, 2010-2011

4. Vice Dean of the Faculty of Science and Forestry, University of Eastern Finland, 2010

5. Vice leader of the Health Biosciences curriculum board, 2/2011-7/2014

**11.9. Manuscript reviews for the following scientific journals**

1) ACS Applied Materials, 2) Annals of Biomedical Engineering, 3) Annals of the Rheumatic Diseases, 4) Archives of Biochemistry and Biophysics, 5) Arthritis Care and Research, 6) Arthritis Care and Therapy, 7) Arthritis and Rheumatism, 8) Basic & Clinical Pharmacology & Toxicology, 9) Biochimica Biophysica et Acta, 10) Biotechnology and Applied Biochemistry, 11) BMC Musculkoskelertal Disorders, 12) Cartilage, 13) Cell Biology International, 14) Cell and Calcium, 15) Cell and Tissue Research, 16) Cells Tissue and Organs, 17) Cellular and Molecular Biology Letters, 18) Clinical Rheumatology, 19) Connective Tissue Research, 20) Current Pharmaceutical Design 21) Cytotechnology, 22) DNA and Cell Biology, 23) Experimental Cell Research, 24) Expert Review of Proteomics, 25) FEBS Letters, 26) Gene, 27) Histochemical Journal, 28) Histochemistry and Cell Biology, 29) Histopathology, 30) International Journal of Artificial Organs, 31) International Journal of Biochemistry and Cell Biology, 32) Journal of Bone and Mineral Research, 33) Journal of Tissue Engineering and Regenerative Medicine, 34) International Journal of Oral Sciences, 35) Journal of Anatomy, 36) Journal of Cellular and Molecular Medicine, 37) Journal of Comparative Neurology, 38) Journal of Orthopaedic Research, 39) Journal of Polymer Engineering, 40) Journal of Proteomic Research, 41) Journal of Royal Society Interface, 42) Journal of Zheijang University – Science B, 43) Life Sciences, 44) Materials Science and Engineering C, 45) Matrix Biology, 46) Medical and Biological Engineering and Computing, 47) Molecular and Cellular Biochemistry, 48) Molecular and Cellular Neuroscience, 49) Molecular and Cellular Proteomics, 50) Osteoarthritis and Cartilage, 51) Pathophysiology, 52) PLoS One, 53) Proteomics, 54) Stem Cell Int, 55) Tissue Engineering

**12. SCIENTIFIC AND SOCIETAL IMPACT OF RESEARCH WORK**

**Total number of publications (Publons: 4318 citations, h-index 37; Scopus: 4627 citations, h-index 36, Google Scholar 6535, h-index 43 on December 6, 2019)**

1. 196 peer-reviewed articles

2. 16 book chapter or long proceeding articles

3. 54 publications intended for professional communities

4. Invention disclosure, Improved cell culture products for stem cell cultivation by coatings and patternings, record entry 1545.02.07.03.01.13, 2013

**13. POSITION OF TRUST IN SOCIETY AND OTHER SOCIETAL MERITS**

1. Member in National Advisory Board on Biotechnology 2011-2013

**14. OTHER CREDITS**

1. Participation in COST Working Group D30/0007/04 “High pressure tuning of biochemical processes: Macromolecular interactions and cellular physiology, 2004-2007

2. Major auditor (2006) and co-auditor (2005) at the University of Kuopio, Kuopio, Finland

3. Member of the Council of Education, University of Eastern Finland, Kuopio, Finland, 2010