

CV / 11-2024 / PERSONAL DETAILS

Family name: Vallittu, First name: Pekka K.
Nationality: FIN Year of birth: 1965
URL for web site: www.utu.fi/en/people/pekka-vallittu
<http://biomaterials.utu.fi/>
<https://research.com/scientists-rankings/materials-science/fi>
https://scholargps.com/highly-ranked-scholars?year=2022&ranking_duration=LIFETIME&field=Dentistry&p=1&e_ref=c13f0af9971cfd973e8f
www.pekkavallittuart.com
ORCID: orcid.org/0000-0002-9981-6717

DEGREES

2000 EPA-Recognized Specialist in Prosthodontics (Specialist in Prosthetic Dentistry and Stomatognathic Physiology), University of Turku, Finland
1994 Doctor of Odontology (PhD), University of Kuopio, Finland
1994 Licentiate of Odontology (DDS), University of Kuopio, Finland
1988 Certified Dental Technician (CDT), Institute of Dental Technology, Kuopio, Finland
1984 Matriculation examination, Urheilupuiston lukio, Mikkeli, Finland

CURRENT EMPLOYMENT AND POSITIONS

2006 – Present Professor and Chair of Biomaterials Science, Department of Biomaterials Science, Institute of Dentistry University of Turku, Finland
2018- Present Member, Board of the University of Turku
2000-2004
2005-2010
2024- Present Member of the Board of Nordic Institute of Dental Materials, Oslo, Norway (<https://www.niom.no>)
2004 - 2012
2017- 2024 Head of the Institute of Dentistry, University of Turku
2008 – Present Director Turku Clinical Biomaterials Centre – TCBC
2008 – Present Chief Dentist (part-time), VARHA Welfare District of South-West Finland
2011 – Present Honorary Professor, University of Hong Kong, PRC, China
2011 – Present Founder, Chairman of the Board (2019-2022) Scientific Advisor of Skulle Implants Corporation www.skulleimplants.com
1997 – Present Founder and Scientific Advisor of Stick Tech Ltd – Member of GC Group (www.sticktech.com)
2021 - Present Founder and Chairman of the Board of Rayo Biotech Industries Ltd
2021 - Present Founder and Chairman of the Board of Rayo 3D Biotech Ltd www.rayo3D.fi
2024 - Present Founder and Chairman of the Board Medhydrate Ltd
2011 - Present Founder and CEO Chosen MedDent Ltd
1994 – Present Part-time private dentist practitioner
2011 – Present Editorial Board Memberships: e.g. International Journal of Prosthodontics, Adhesive Dentistry, Open Dentistry, Dental Materials, J Materials Science Materials in Medicine, Journal of Prosthodontics

PREVIOUS WORK EXPERIENCE AND POSITIONS

2010 – 2023 Subject Editor of the Journal of Mechanical Behavior of Biomedical

Materials (JMBBM) (Elsevier)

2013 – 2022 Visiting Professor, King Saud University, Riyadh, Saudi Arabia

2008 – 2021 Director of the BioCity Turku Biomaterials Research Program

(www.biomaterials.utu.fi)

2006 – 2011 Coordinator of the European Commission integrated SME project: NEWBONE (NMP-CT-2006-026279)

2004 – 2020 Permanent Advisor of the Finnish Agency of Medicolegal Affairs

2005 - 2006 Acting Professor of Prosthodontics, University of Turku, Finland

2004 – 2012 Head of the Institute of Dentistry, University of Turku

2003 – 2004 Acting Professor of Biomaterials, University of Turku, Finland

1997 – 2002 Associate Professor in Prosthodontics, University of Turku, Finland

1995 – 2006 Docent in Prosthetic Materials Science, University of Turku, Finland

1995 – 1996, 1997 Visiting Researcher, NIOM (Nordic Institute of Dental Materials), Oslo, Norway

1994 - 1995 Lecturer, University of Kuopio, Finland

1992 – 1994 Research Associate, University of Kuopio, Finland

1990 – 1993 Part-time Lecturer Kuopion terveydenhuolto-oppilaitos

1988 – 1994 Part-time Lecturer Valtion hammasteknikko-opisto

RESEARCH FUNDING AND GRANTS

Total amount of external funding obtained (1997 – 2023): Total over 14.000.000 Euros

- National Agency for Technology and Innovation (TEKES, Business Finland), 1997 – 2023: 5.797.000 Euros
- Academy of Finland (including Centre of Excellence funding), 2002 – 2023: 2.150.000 Euros
- Industrial funding 2006-2023: 1.560.000 Euros
- European Commission (NEWBONE Consortium) 2006 –2011: 4.600.000 Euros (Coordinator of the Consortium)
- VTR-ERVA (Hospital District of South-West Finland) funding: 120.000 Euros

RESEARCH OUTPUT

- H-factor of 109 (Google Scholar); 78 (Web of Science)
- Total of 745 peer reviewed scientific papers (ISI Web of Science All Databases)
- 46 International review articles
- 593 International congress abstracts
- 145 professional articles
- >150 granted patents based on over 30 inventions
- Founder / Co-founder of 5 companies

RESEARCH SUPERVISION AND LEADERSHIP EXPERIENCE

1997 – Present PhD supervisions: 40

1997 - Present Evaluations for Professor / Docent positions: 22

1997 - Present Dissertation Opponent: 27

AWARDS AND HONOURS

2023 Invited Member of the Finnish Academy of Science and Letters
(*Suomalainen Tiedekatemia*)

2023 Scandinavian Society for Biomaterials Award

2022 Apollonia Prize, Finnish Dental Society Apollonia

2022 Doctor of Odontology Honoris Causa (h.c.), University of Eastern Finland

2021 George Winter Award by European Society for Biomaterials (ESB)

2018 Orders of the White Rose of Finland, Knight First Class (SVR R1)

2017 Acta Odontologica Scandinavica Big Prize

- 2016 Bensow-Äyräpää Prize, Skandinaviska Tandläkarföreningen
- 2014 Fellow of the Academy of Dental Materials FADM
- 2014 Quality Innovation Award – SIQ, Sweden (with Stick Tech-GC)
- 2013 Kliininen Silmä Award – Clinician Eye of the Year (Faculty of Medicine)
- 2013 Apollonia Medal in Brass number 73
- 2013 IDS Prize 2013 for most innovative new product everXPosterior (with StickTech-GC)
- 2013 ProCongress Award (jointly with Prof. Le Bell and Prof. Närhi) by the Visit Finland
- 2012 Distinguished Scientist in Prosthodontic and Implant Research by the International Association of Dental Research (IADR)
- 2003 Writer of the Year, Finnish Dental Journal
- 2002 InnoSuomi Prize by the President of Republic of Finland (with Stick Tech Ltd)
- 1998 Writer of the Year, Finnish Dental Journal

MAJOR INSTITUTIONAL RESPONSIBILITIES

- 2018- Present Member of the Management Team (*johtoryhmä*) of the Faculty of Medicine, University of Turku
- 2012–Present Board member of the University Professors Union, Department of University of Turku (*Professoriliitto, paikallisosaston johtokunta*)
- 2014- Present Council Member of the University Professors Union of Finland (*Professoriliitto, valtuusto*)
- 2010- Present Member of the Research Committee of the ERVA region of South-West Finland (presently VARHA) and Research Council of the Hospital District of Southwest Finland
- 2010- Present Member of the Evaluation Committee for Clinical Research of the ERVA region of South-West Finland (presently VARHA)
- 2008 – 2017 Member of the Board *Turun Suomalainen Yliopistoseura ry.*
- 2020- Present Member of National Student Selection Committee of Medicine Dentistry and Veterinary Medicine (*lääketieteellisten alojen kansallinen valintakoetoimikunta*)
- 2023 Conferrer, Conferment Ceremonies, Faculty of Medicine, University of Turku
- 2022-2023 Chairman of the Committee for Conferment Ceremonies, Faculty of Medicine, University of Turku.
- 2015-2017 Belgium Science Foundation: research grant evaluator
- 2017- Present Finnish Dental Society Apollonia: research grant evaluator
- 2012-2017 Member of the Board (*tiedekunnan johtokunta*) of the Faculty of Medicine, University of Turku
- 2013 Master of Ceremonies, Conferment Ceremonies, University of Turku
- 2006 – 2021 Member of Program Directors of the BioCity Turku
- 2003 – 2008 Chair, Dental Education Curriculum Committee, University of Turku
- 2010 – 2017 Member of Publication Forum (*Julkaisufoorumi*), Federation of Finnish Learned Societies
- 2010 - 2014 Board member (deputy), *Nordic Institute of Dental Materials Ltd* (NIOM), Oslo, Norway
- 2007 Evaluator in the Panel for Dutch Dental Research
- 2019 Evaluator in the RED19 Panel, University of Göteborg, Sweden
- 2004 – 2020 Permanent Advisor of the Finnish Agency of Medicolegal Affairs
- 2002 – 2011 Expert of Dental Materials for the Swedish Social Ministry Dental Materials (Kunskapscenter för dentala material - KDM, Socialstyrelsen, Sweden)
- 1999 – 2010 Board member, *Nordic Institute of Dental Materials* (NIOM), Oslo, Norway

MEMBERSHIPS AND POSITIONS IN SCIENTIFIC SOCIETIES

2004 – 2008	Board member, European Prosthodontic Association
2003 – 2007	Board member, Finnish Dental Society Apollonia
2002 – 2003	Board member, Finnish Biomaterials Society
2000 – 2002	President of the Prosthodontic Division, Finnish Dental Society Apollonia
1999 – 2010	Board member, Scandinavian Society for Prosthetic Dentistry
1999 – 2007	Continuing Education Committee, Scandinavian Society for Prosthetic Dentistry
2009 – Present	Member, European Society for Biomaterials
2005 - Present	Member, International College of Prosthodontists
2010 - Present	Member, Academy of Dental Materials
1994 - Present	Member, International Association for Dental Research (Prosthodontic and Implant Research Group, Dental Materials Group)
1992 – Present	Member, Finnish Dental Society Apollonia

SCIENTIFIC AND SOCIETAL IMPACT

Based on the research of PV in the field of biomaterials, especially biocomposites and bioactive materials several biomaterial companies have been established and new dental and medical treatments have been introduced to clinic. There are millions of dental patients world-wide who have been treated with fiber-reinforced composite dental constructs and 3000 patients with large cranial bone defect who have been treated with bioactive composite implant developed and commercialized (Stick Tech – Member of GC Group, Japan and Skulle Implants Ltd) by PV. Present research activity focuses on long bone implants, natural (cellulose nanocrystal) based composites, biomineralization, and recently also on paleo-ontology on giant panda's evolution and nutrition. The most recent spin-off (Rayo 3D Biotech Ltd) activity is in sustainable 3D printing platform technology development and commercialization. He has been invited key-note lecturer over 160 times internationally.

OTHER

- Military ranking: Second lieutenant (vänrikki)
 - Art Exhibition "Kieppauslinja" 2012
 - Art Exhibition "Otteita hetkistä" 2013
 - Art Exhibition "Aikakultaa" 2019
 - Art Exhibition "Ajan kaikkeus ja kultainen hetki" 2021
 - Art Exhibition "Forecasting Aurora Borealis" 2022
 - Art Exhibition "Värien ja viivojen kertomaa" 2022
 - Art Exhibition "Tanssii taivaan tulien kanssa" 2023
 - Art Exhibition "Viva Magenta" 2023
 - Art Exhibition "Roomasta Turkuun ja yliopistoonkin – Roma Aboam atque in universitatem", 2023
 - Art Exhibition "Paratiisi Nauvo", 2024
 - Art Exhibition "Elokuun värit", 2024
- Hobbies: Art collecting, RC-model aircrafts, boating, oil painting, house maintenance