

Curriculum Vitae - Erkki Raulo

Personal information

Name: Erkki Ylermi Raulo

Date and place of birth: May 6th, 1965, Helsinki, Finland

Married, four children

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Education:

1995 Ph.D., Institute of Biotechnology and Department of Biochemistry, University of Helsinki
1994 Master of Sciences (FM) University of Helsinki, Department of Biochemistry
1992 International Diploma in Biotechnology, Institute of Biotechnology, University of Helsinki
1984 Graduated from high school (Töölön Yhteiskoulu, Helsinki)

Current position:

2018 - Senior Adviser, Research Training
2017 Coordinator, Doctoral School in Natural Sciences, University of Helsinki
2014 - 2017 Tieteellinen koordinaattori, Integrative Life Science (ILS) tohtorihjelma, terveyden tutkijakoulu, Helsingin yliopisto.
2007 - Project Manager, NEURON COFUND (Network of European Funding for Neuroscience Research), Work Package leader – young scientists' support activities, Academy of Finland
2007 - Dosentti, Biokemia, Helsingin yliopisto

Previous activity:

2000 - 2013 Tieteellinen koordinaattori, varajohtaja, Helsingin biotekniikan ja molekyylibiologian tohtorihjelma, Helsingin Yliopisto
2000 - 2013 Toiminnanjohtaja, FinBioNet, Finnish Graduate School Network in Life Sciences
2008 - 2009 Tutkimuskoordinaattori, FIMM Institute of Molecular Medicine Finland, University of Helsinki
2002 - 2007 Senior Research Fellow, Neuroscience Center, University of Helsinki
2000 - 2001 Expert Secretary, research grants evaluation board: Research Council for Health, Academy of Finland (in two invited occasions)
1997 - 2001 Post-doctoral research fellow (Academy of Finland) Institute of Biotechnology, University of Helsinki
1996 - 1997 Post-doctoral Research Fellow, Cancer Research Campaign - Growth Factors Group, School of Biochemistry, University of Birmingham, UK
1995 - 1996 Junior post-doctoral Fellow (Academy of Finland) Cancer Research Campaign – Growth Factors Group, Department of Biochemistry, University of Oxford, UK
1991 - 1995 Researcher, Institute of Biotechnology, University of Helsinki
1990 - 1991 Research assistant, Department of Medical Chemistry, University of Helsinki

Memberships of Boards:

2020 - FEBS Education Committee (Federation of European Biochemical Societies) - elected member
2017 - Board member in Biobio-Society (Societas biochemica, biophysica et microbiologica Fenniae) and Education Ambassador in FEBS; Federation of European Biochemical Societies
2016 - Member of Finnish Support Team for Horizon 2020 Marie Skłodowska-Curie Actions (MSCA), 2016 onwards
2007 - ERA-NET NEURON (Network of European Funding for Neuroscience Research) –Executive Board Member
2010 - 2015 Mentor of the BiotechClub -PhD student initiative
2009 - 2014 Steering board member, Vice Chair “PhD’s to Business Life” project, Culminatum Innovation Oy Ltd
2008 - 2009 Ohjausryhmän jäsen, ENGAGE (HEALTH-F4-2007-201413 ENGAGE) European Network for Genetic and Genomic Epidemiology
2007 - 2013 EU FP-7 / PEOPLE –Finnish Support Team

1999 - 2005 Board member - Helsinki Graduate School in Biotechnology and Molecular Biology

Professional and management training:

12.2.2009 FP7-Workshop: Coordinating EU Research Projects, Singleimage, Tampere
5.12.2008 Project Management in the FP7, Welcomeurope, Paris
4.12.2008 Project Preparation and Proposal Writing within FP7, Welcomeurope, Paris
2001 Patents Course: National Board of Patents and Registration of Finland
2001 CAS- chemical abstracts service – Patents database training

International Activities:

2018: Participant, Quality in Postgraduate Research, Adelaide, Australia
2017: Invited Speaker, University of Helsinki Delegate: 10th EUA-Council for Doctoral Education, Workshop on ethics and integrity in doctoral education and research training, January 17-18, 2017, Lisbon, Portugal
2016 Invited expert: Horizon 2020 Scientific Panel for Health of the European Commission workshop on 'Next generation health research workforce', September 27th 2016 in Brussels
2015 Fulbright Study Tour participant: Graduate Admissions and Strategic Enrollment Management, Washington D.C. - New York, USA
2015 Organizer, Sino-Finland Life Science Forum. Helsinki 2015; Wuhan-Shanghai 2012; Turku-Helsinki 2011; Shanghai 2010; Helsinki-Tampere-Oulu-Kuopio-Turku 2009; Wuhan-Soochow-Shanghai 2008
2014 Organizer, Chair: ERA-NET NEURON "Excellent Paper in Neuroscience Award" Ceremony in FENS Forum Amsterdam 2010, Barcelona 2012, and Milan 2014
2012 Invited Speaker: CALSIF Chinese Association of Life Science in Finland, 6th annual meeting. Helsinki, November 23, 2012
2012 University of Helsinki representative in EUA (European University Association) DOC-CAREERS - final conference, The Royal Flemish Academy of Belgium for Sciences and the Arts, Belgium, Brussels, 30-31 January 2012
2011 Invited Speaker: "Young Investigator Support Activities – Student Exchange with Asian Countries" in the Network of European Neuroscience Schools (NENS) Annual General Meeting in Lausanne, Switzerland
2011 Moderator: Wuhan University Chancellor's visit to the University of Helsinki. Establishment of the Sino-Finn Life Science Center in Wuhan. 15.9.2011
2010 Invited speaker: "European Transnational Young Investigator Support" in NENS general assembly in 7th FENS Forum, Amsterdam
2008 Academy of Finland delegation in RIKEN, Japan: Presentation of Finnish Doctoral training system.
2008 University of Helsinki representative in EUA (European University Association) Council for Doctoral Education Launch Conference, University of Lausanne, Switzerland
2007 Indian Institute of Science (IISc) Bangalore, India: Presentation of Finnish Doctoral training system.
2006 Working group member in EUA Bologna Seminar: DOCTORAL PROGRAMMES IN EUROPE, Nice, 7-9 December 2006
2005 Academy of Finland delegation in China: Beijing-Wuhan-Shanghai hosted by Chinese Academy of Science and National Natural Science Foundation of China. Presentation of Finnish Doctoral training system.
2005 - Development of PhD-training collaboration between UH and Wuhan University, China. Initiator and organizer of series of annual Summer Schools for Chinese students to visit Finnish Biocenters
2001 University of Helsinki representative in Nordic Council meeting: "Teaching Bioethics", Copenhagen
1994 Invited Speaker: C.N.R.S. Jacques Monod Conference on "Heparin binding Growth Factors: The Fibroblast Growth Factor Family", Aussois, France.

Publications

Solution structures of the first and fourth TSR domains of F-spondin

Pääkkönen, K., Tossavainen, H., Permi, P., Rakkolainen, H., Rauvala, H., Raulo, E., Kilpeläinen, I. & Guntert, P., 2006, julkaisussa : *Proteins : structure, function, and genetics*. 64, 3, s. 665-672 8 Sivumäärä

The layered fold of the TSR domain of *P. falciparum* TRAP contains a heparin binding site

Tossavainen, H., Pihlajamaa, T., Huttunen, T. K., Raulo, E., Rauvala, H., Permi, P. & Kilpeläinen, I., 2006, julkaisussa : *Protein Science*. 15, 7, s. 1760-1768 9 Sivumäärä

The two thrombospondin type I repeat domains of HB-GAM display a cooperative function in N-syndecan binding and regulation of synaptic plasticity

Raulo, E., Tumova, S., Pavlov, I., Hienola, A., Lauri, S., Taira, T. & Rauvala, H., 2006, julkaisussa : *Scientific World Journal*. 6, s. 406-409 4 Sivumäärä

The two thrombospondin type I repeat domains of the heparin-binding growth-associated molecule bind to heparin/heparan sulfate and regulate neurite extension and plasticity in hippocampal neurons

Raulo, E., Tumova, S., Pavlov, I., Pekkanen, M., Hienola, A., Klankki, E., Kalkkinen, N., Taira, T., Kilpeläinen, I. & Rauvala, H., 2005, julkaisussa : *Journal of Biological Chemistry*. 280, 50, s. 41576-41583 8 Sivumäärä

HB-GAM inhibits proliferation and enhances differentiation of neural stem cells

Hienola, A., Pekkanen, M., Raulo, E., Vanttola, P. & Rauvala, H., 2004, julkaisussa : *Molecular and Cellular Neuroscience*. 26, 1, s. 75-88 14 Sivumäärä

Heparin-binding growth-associated molecule contains two heparin-binding beta-sheet domains that are homologous to the thrombospondin type I repeat

Kilpeläinen, I., Kaksonen, M., Kinnunen, T., Avikainen, H., Fath, M., Linhardt, R. J., Raulo, E. & Rauvala, H., 2000, julkaisussa : *Journal of Biological Chemistry*. 275, s. 13564-13570 7 Sivumäärä

Heparin-binding proteins HB-GAM (pleiotrophin) and amphoterin in the regulation of cell motility

Rauvala, H., Huttunen, H. J., Fages, C., Kaksonen, M., Kinnunen, T., Imai, S., Raulo, E. & Kilpeläinen, I., 2000, julkaisussa : *Matrix Biology*. 19, s. 377-387 11 Sivumäärä

Osteoblast recruitment and bone formation enhanced by cell matrix-associated heparin-binding growth-associated molecule (HB-GAM)

Imai, S., Kaksonen, M., Raulo, E., Kinnunen, T., Fages, C., Meng, X., Lakso, M. & Rauvala, H., 1998, julkaisussa : *Journal of Cell Biology*. 143, 4, s. 1113-1128

HB-GAM is a cytokine present in Alzheimer's and Down's syndrome lesions

Wisniewski, T., Lalowski, M., Baumann, M., Rauvala, H., Raulo, E., Nolo, R. & Frangione, B., 1996, julkaisussa : *NeuroReport*. 7, s. 667-671

Neurite outgrowth in brain neurons induced by heparin-binding growth-associated molecule (HB-GAM) depends on the specific interaction of HB-GAM with heparan sulfate at the cell surface

Kinnunen, T., Raulo, E., Nolo, R., Maccarana, M., Lindahl, U. & Rauvala, H., 1996, julkaisussa : *Journal of Biological Chemistry*. 271, 4, s. 2243-2248

Co-expression of heparin-binding growth-associated molecule (HB-GAM) and N-syndecan (syndecan-3) in developing rat brain

Nolo, R., Kaksonen, M., Raulo, E. & Rauvala, H., 1995, julkaisussa : *Neuroscience Letters*. 191, s. 39-42

Developmental roles of the heparin-binding proteins HB-GAM and MK

Rauvala, H., Raulo, E., Szabat, E. & Nolo, R., 1995, *Diabetes 1994 : proceedings of the 15th International Diabetes Federation Congress*. Amsterdam: Elsevier Scientific Publ. Co, s. 550-556

The role of heparin-binding growth-associated molecule (HB-GAM) in the postsynaptic induction in cultured muscle cells

Peng, H. B., Ali, A. A., Dai, Z. S., Raulo, E., Rauvala, H. & Daggett, D. F., 1995, julkaisussa : *Journal of Neuroscience*. 15, 4, s. 3027-3038

Expression of HB-GAM (heparin-binding growth-associated molecules) in the pathways of developing axonal processes in vivo and neurite outgrowth in vitro induced by HB-GAM

Rauvala, H., Vanhala, A., Castrén, E., Nolo, R., Raulo, E., Merenmies, J. & Panula, P., 1994, julkaisussa : *Developmental Brain Research*. 79, s. 157-176

Isolation of a neuronal cell surface receptor of heparin binding growth-associated molecule (HB-GAM)

Raulo, E., Chernousov, M., Carey, D., Nolo, R. & Rauvala, H., 1994, julkaisussa : *Journal of Biological Chemistry*. 269, 17, s. 12999-13004

AMPHOTERIN, THE 30-KDA PROTEIN IN A FAMILY OF HMG1-TYPE POLYPEPTIDES - ENHANCED EXPRESSION IN TRANSFORMED-CELLS, LEADING-EDGE LOCALIZATION, AND INTERACTIONS WITH PLASMINOGEN ACTIVATION
PARKKINEN, J., RAULO, E., MERENMIES, J., NOLO, R., KAJANDER, E. O., BAUMANN, M. & RAUVALA, H., 1993,
julkaisussa : Journal of Biological Chemistry. 268, s. 19726-19738 13 Sivumäärä