

Curriculum vitae

1. Personal details

- Helariutta, Yrjö Eero
- ORCID ID: 0000-0002-7287-8459
- Year of birth: 1965
- Nationality: Finnish
- Websites(URL): <http://www.biocenter.helsinki.fi/bi/Helariutta/>
<https://www.slcu.cam.ac.uk/people/helariutta-yrjo>

2. Education and degrees completed

1995 – **PhD** – Genetics, University of Helsinki, Finland (Ph.D. thesis: “Developmental expression and molecular evolution of the flavonoid biosynthetic genes in *Gerbera hybrida*”); 1990 – **MSc** – Genetics, other main subjects Biochemistry and Plant Physiology, University of Helsinki, Finland

3. Current position

2014 - Prof of Plant Dev Biology; Sainsbury Laboratory, University of Cambridge
2005 - Prof of Plant Dev Biology; University of Helsinki

4. Previous work experience

2013 – 2017 Academy Professor
2013 – 2015 Visiting Professor, Cardiff University (Hosted by Prof. Jim Murray)
2004 - 2005 Prof of Plant Physiology and Molecular Biology, University of Turku
2003 – 2009 Associated member of Umea Plant Science Center, Sweden
2001 - 2006 Academy Research Fellow, Academy of Finland
1999 - 2001 Group Leader, University of Helsinki
1995 - 1998 Post-doctoral fellow/ post-doctoral associate Dr. Philip Benfey’s group, New York University / Dr. Victor Albert’s group, New York Botanical Garden
1989 - 1995 Researcher, Dr. Teemu Teeri’s group, University of Helsinki

6. Personal research funding and grants

Major research funding

2015 – 2018 with Terri A. Long and Ross Sozzani, Bilateral US NFS/Bio – UK BBSRC; £247,931 (BBSRC/ Helariutta Contribution)
2014 – 2019 Gatsby Charitable Foundation, University of Cambridge, UK; £1.25 M
2014 – 2019 Center of Excellence “Molecular Biology of the Primary Energy Producers” (Head: Eva-Mari Aro); My share approximately EUR 1.8 M
2013 – 2018 ERC Advanced Grant (EUR 2.4 M)
2013 – 2017 Academy Professor (approximately EUR 750 000)
2005 – 2010 European Young Investigator Award (EURYI) by ES F (EUR 1.165 M)
2001 – 2004 Member of Young Investigator Programme (YIP) of the EMBO (EUR 45 000)

7. Leadership and supervision experience

Out of some 10 graduate students and 20 post-doctoral fellows of my group, selected:
- *Ari Pekka Mähönen* (FIN) graduate student 1999-2006; genetics of cytokinin signaling (Next position: EMBO/HFSP supported fellow with Prof. Ben Scheres [Utrecht University];
- *Annelie Carlsbecker* (SWE) post-doctoral fellow 2004-2006; genetics of phloem development; (Next position: Assistant Professor, Uppsala University)
- *Shunsuke Miyashima* (JPN) post-doctoral fellow (2009-2013): phloem development (2013 as an Assistant Professor at the NAIST, Nara, JPN

- *Anthony Bishopp* (UK) post-doctoral fellow (2004-2012): procambial development (Royal Society University Research Fellow, CPIB, University of Nottingham)

8. Teaching experience (*Plant developmental biology* as a subject)

2014 - Professor, University of Cambridge, UK; 2012-2014 Visiting Lecturer, Aalto University, Finland; 2005 - Professor, University of Helsinki, Finland; 2001 – Docent, 1989 - Teaching Assistant; 2004 - Professor, University of Turku, Finland

9. Experience of organising scientific meetings

July 2019 - 15th Int'l Plant Cell Wall Meeting, Cambridge, UK (org. committee, for 200)
July 2013 - Plant Vascular Biology, Helsinki (main organiser, 200 participants)

10. Patents, inventions, awards and honours

Patents: (1) Immanen J, Helariutta Y, Nieminen K (2015) A method for improving stem volume growth and biomass production in trees. Publ. No. WO2015101709 A1; (2) Vatèn A, Dettmer J, Miyashima S, Yadav SR, Campilho A, Bulone V, Lichtenberger R, Lehesranta S, Mähönen AP, Carlsbecker A, Helariutta Y, Furuta K (2013) Polypeptide. Publ. No. WO2013079796 A1 - technology to enhance callose polymer levels in plant cell walls.

Awards: 2008 EMBO Membership Award; 2005 European Young Investigator Award (EURYI) by European Science Foundation; 2000 Member of Young Investigator Programme (YIP) of the European Molecular Biology Organisation

Research honours: 1999- 2019 Member of three Centers of Excellence by the Academy of Finland (“huippuyksikkö”); Head: Tapio Palva/Tapio Palva/Eva-Mari Aro); 2012 Nominated for the Academy Professor (Academy of Finland) (2013-2017)

11. Other key scientific or academic merits

Editorial Work: Science (USA, Member of the Board of Reviewing Editors, since 2013-); Plant Cell and Physiology (JPN, 2008-11); Physiologia Plantarum (SWE, Subject Editor, 2009); Plant Molecular Biology (NED, 2009-13), Development (UK, Editor, 2013-); Planta (Member of the Editorial Board since 2016-).

Reviewer: Research programs - ZMBP Tübingen, SAB member (2010-16, chair 12-16), Award Committees – EMBO Young Investigator Award (2011-14)

Scientific expert positions: Enterprise Champion/SLCU representative, 2015-

Opponent for PhD thesis: Imperial College London, University of Nottingham, University of Kuopio

Selected recent talks

Jun 2018 - International Conference on Arabidopsis Research (ICAR 2018), Turku, FI

Jun 2018 – The Root Biology meeting, Durham NC, USA

Jun 2018 – The 2nd International Conference on Plant Meristem Biology, Hefei, CN

Oct 2017 – iPhloem, Technical University of Denmark, Copenhagen, DK

Jul 2017 – XIX International Botanical Congress, Shenzhen, CN

Jul 2017 – EMBO Workshop: Intracellular communication in development..., Berlin, GE

12. Memberships and positions of trust in scientific societies

2017 - Trustee of the Finnish Science Society in the UK; moderator in a panel discussion during the ‘Finnish Science 100’ event - Imperial College London

2000-2010 Coordinator of discussive forum including forest molecular biologist, forest breeders, wood & pulping scientists in Finland. Once a year.