

Personal information

Full name: Patrikainen, Pekka Tapio

Gender: male

Date and place of birth: 19.8.1983, Turku, Finland

Citizenship: Finland

Current residence: Kaarina, Finland

Education and degrees

10.8.2015 Doctor of Philosophy (PhD), Department of Biochemistry, University of Turku, Turku, Finland, major in biochemistry

(Address: University of Turku, FI-20014 TURUN YLIOPISTO, FINLAND; phone: +358 29 450 5000)

17.6.2010 Master of Science (MSc), Department of Biochemistry and Food Chemistry (currently Department of Biochemistry), University of Turku, Turku, Finland, major in biochemistry

4.2.2010 Bachelor of Science (BSc), Department of Biochemistry and Food Chemistry (currently Department of Biochemistry), University of Turku, Turku, Finland, major in biochemistry

1.6.2002 The Finnish Matriculation Examination, Luostarivuori High School, Turku, Finland

Current position

1.1.2016 – present Postdoctoral Researcher, Molecular Plant biology, Department of Biochemistry, University of Turku, Turku, Finland; Synthetic Biology of Cyanobacteria research group; responsible leaders: Academy Professor Eva-Mari Aro and Postdoctoral Researcher Pauli Kallio (PhD)

- Development of synthetic biology strategies for *Synechocystis* sp PCC 6803; genetic modification of *Synechocystis* to improve photosynthetic efficiency.

Previous work experience

1.1.2011 – 31.12.2015 Doctoral Candidate, Department of Biochemistry (previously Department of Biochemistry and Food Chemistry), University of Turku, Turku, Finland; Antibiotic Biosynthetic Enzymes research group; PI: Mikko Metsä-Ketelä (Docent)

- *In vitro* studies of angucycline tailoring enzymes originating from different *Streptomyces* strains; production, purification and mutagenesis of these enzymes in *E. coli* and substrate in *Streptomyces lividans* TK24/pMC6BD; analyzing the angucycline substrates and products with HPLC, CD spectroscopy and MS.

CURRICULUM VITAE

Pekka Patrikainen

5.9.2018

17.5. – 31.12.2010 Research Assistant and Project Researcher, Department of Biochemistry and Food Chemistry, University of Turku, Turku, Finland; Antibiotic Biosynthetic Enzymes research group; PI: Mikko Metsä-Ketelä (Docent)

- Same as above.

1.10. – 31.12.2009 Research Assistant, Department of Biochemistry and Food Chemistry, University of Turku, Turku, Finland; Antibiotic Biosynthetic Enzymes research group; PI: Mikko Metsä-Ketelä (Docent)

- Generation of knock-out strains related to the studies of nogalamycin biosynthesis in *Streptomyces albus*.

20.10.2008 – 5.5.2009 Research Assistant, Department of Biochemistry and Food Chemistry, University of Turku, Turku, Finland; Integrins research group; PI: Professor Jyrki Heino

- Purification of GST-tagged integrin α_1 I domain and generation of its variants.

Paternity leave on 21.3.–12.4.2013, 3.8.–22.8.2015, 21.11.–9.12.2016 and 18.4.–11.5.2017

Courses

Laboratory animal course, category C, Central Animal Laboratory, University of Turku, Turku, Finland, completed 28.2.2010

Linguistic skills

Finnish; native language English; good skills

Swedish; satisfactory skills German; basics

Research funding

1.1.2012 – 31.12.2015 National Doctoral Programme in Informational and Structural Biology, funding for personal salary during doctoral studies, 6 months / year, granted 18.11.2011

1.7.2014 – 30.6.2015 The Varsinais-Suomi Regional Fund of Finnish Cultural Foundation, 22 000 euros, granted 3.4.2013

Supervision experience

2.5.2016 – 31.5.2017 Supervisor of BSc Lauri Kakko (together with PhD Pauli Kallio) in his MSc laboratory work (part of FYGE4501, 40 ECTS)

2012 – 2017 Supervisor of five (5) different Biochemistry or Molecular Systems Biology student during their four week practical laboratory training periods and two (2) different summer trainees during their summer work periods at the research laboratory

Merits in teaching and pedagogical competence

7. – 11.5.2012 Teaching of the course “Gene Technology in Practice”
(BKEM3624, 2 ECTS), 15 students

10/2013 – 6/2014 “Basics of the university pedagogics” course (10 ECTS) taken
between October 2013 and June 2014

27.1. – 14.2.2014 Teaching and partial planning/re-designing of “Protein
purification and the function of the lactose operon” part on the “Biochemistry, Laboratory
Exercises” course (BKEM3758) 29 students

Spring 2015 Supervision of BSc thesis (BKEM3597, 6 ECTS) of Janne
Mäkinen and Tatu Porjamo

Fall 2017 Supervision of MSc thesis (part of FYGE4501, 40 ECTS) of BSc
Lauri Kakko (Physiology and Genetics, Department of Biology, University of Turku)

Other academic merits

27.1.2017 Member of the organizing committee for the “Postdoc Career
Day” intended for Postdoctoral Researchers within the Molecular Biology of Primary Producers,
Center of Excellence of Academy of Finland (University of Turku and University of Helsinki)

1.1.2017 – present Member of advisory committee for MSc Bikash Baral (Doctoral
Programme in Molecular Life Sciences, Biochemistry, Department of Biochemistry, University
of Turku)

Societal merits

14.4.2014 – present The chair of board in housing cooperative As Oy Kartanonrivi (Kaarina,
Finland)

Spring 2015 – present Board member in Hovipellon Huolto Oy heating company (Kaarina,
Finland)

Finnish military rank: Second Lieutenant (2004)