

Tuuli Hakala

Curriculum Vitæ

Work Experience

Current since Oct 2016

PhD student, Marie-Sklodowska ITN PhD studentship

Joint project with Knowles Lab and GBernardes Lab, Department of Chemistry, University of Cambridge

Project title: "Microfluidic route to multivalent protein nanoparticles for selective targeting in vivo."

Used methods:

Microfluidics Protein conjugation Atomic force microscopy Scanning electron microscopy

Jun 2016 – Aug 2016

Research Assistant

Microfabrication Group, Aalto University

Investigating hydrophobic recovery of PDMS and capillary filling.

Used methods:

Soft lithography Contact angle measurements

Jun 2015 - Jan 2016

Master's Thesis Worker

Helsinki Biophysics and Biomembrane Group, Department of Neuroscience and Biomedical Engineering, Aalto University

Characterization of Amyloid Fibril Formation in a Microfluidic Chip

Used methods:

Impedance spectroscopy Microfluidics

Sept 2013 – Nov 2013

Visiting Student Researcher

Quake Group, Department of Bioengineering, Stanford University

Participated in research, designing and fabrication of microfluidic chips.

Used methods:

Photolithography Soft lithography Experiments with fluorescent microscope

Jun 2012 – May 2015

Research Assistant

Helsinki Biophysics and Biomembrane Group, Department of Biomedical Engineering and Computational Science, Aalto University

Research of protein-lipid interaction and protein fibre formation.

Used methods:

Fluorescence spectroscopy	Fluorescence life time measurements	Lagmuir monolayer
Surface penetration	Fluorescence microscopy	Microfluidics
photolithography	Sputtering	Lift-off

Education

2013 – 2016	Master of Science
Degree Programme	Bioinformation Technology
Major	Biomedical Engineering and Medical Physics
Minor	Bioadaptive Technology
	Aalto University
2010 – 2013	Bachelor of Science
Degree Programme	Bioinformation Technology
Major	Biomedical Engineering
Minor	Bioelectrical Engineering
	Aalto University

Communication Skills

Language skills	Finnish: Native English: IELTS band score 7,5/9
Conferences	Short talk and poster at the FEBS Lipids as Molecular Switches Work Shop – 2014

Computer Skills

Basic Knowledge	Python, C, LabView, Matlab, AutoCAD, ImageJ
Intermediate Knowledge	Origin, L ^A T _E X, Microsoft Office, Microsoft Windows



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