

## **Julia Kallberg**

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## **BIOGRAPHY**

Julia obtained a Bachelor's degree in Biology from Lund University in 2016. From there she went to study a master's degree in Environmental Chemistry at University of Copenhagen. She started working with microfluidics during her studies at University of Copenhagen where her master thesis project was about developing a platform to study endocrine disrupting compounds on a microfluidics chip. She is currently working on a PhD project regarding evolution of cancer heterogeneity and drug resistance using droplet based microfluidics.

## **CURRICULUM VITAE (updated Oct. 2019)**

### **ACADEMICS**

2016-2018 Master's Degree in Environmental, University of Copenhagen. Chemistry and toxicology

2013-2016 Bachelors degree in Biology, Lund University

### **RESEARCH EXPERIENCE**

2016 Lund University, Project type: Bachelors Project, 15 ECTS, Supervisor: Emily Baird

2017-2018 University of Copenhagen, Project title: Development of a microfluidic chip for screening of endocrine disrupting compounds, Project type: Masters project, 45 ECTS, Supervisor: Andreas Kretschmann and Jörg Kutter

### **LABORATORY SKILLS**

Biology: Cultivating cells, staining and viability assays. Experience with molecular biology techniques like qPCR, electrophoresis, cell culturing, fixating and staining cells, fluorescence microscopy, immunohistochemistry and ELISA.

Microfluidics: Design and fabrication of thiol-ene chips using double moulding technique. Cell viability assays, oxygen concentration and steroid measurements on chip.

Chemistry technics include: Comparing enzyme kinetics (SN1 and SN2 reactions), titration of acids and bases, purification and recrystallization of organic molecules, Dose-response curves, steroid detection using LC-MSMS.

### **OTHER SKILLS**

Computer: Good knowledge in Microsoft Office, Excel, Autodesk Inventor programs. Some experience in working with ImageJ and MATLAB.

Language: Fluent in Swedish, English and (Norwegian). Basic knowledge in Spanish, Italian.

## GENERAL WORK EXPERIENCE

Internship (Ängelholm, Sweden) 2016

Worked as an intern at a Marine Center, Mitt Hav, where I informed and discussed about marine environmental issues with visitors.

## RELEVANT COURSEWORK (ECTS)

Biochemistry (7,5)

Inorganic Chemistry (15)

Cell biology and Genetics (30)

Toxicology (7,5)

Human Physiology (15)

Organic Chemistry (7,5)

Air Pollution and Health (7,5)

Chemical Risk Assessment (7,5)