

Aniela Skrzypczyk

Highly motivated PhD student who knows the ins and outs of cell reprogramming, wants to discover the secrets of pluripotency, interested in iPSCs application in regenerative medicine and microRNA gene control mechanisms

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CURRENT POSITION

01.08.2014 – present, Early Stage Researcher in the BIOART project

I was awarded with scholarship from Marie Curie Research Fellowship, Cell Techniques and Applied Stem Cell Biology, Biomedical and Biotechnological Center (BBZ), Leipzig University, Germany; Supervisors: Prof. Augustinu Bader, Prof. Peter F. Stadler

- iPS cells & hepatic cells characterization
- Hepatic differentiation, transdifferentiation
- Image analysis and micro RNA analysis
- Exosome analysis

PROFESSIONAL EXPERIENCE

01.09.2013 – 31.12.2013, Research Assistant

Institute of Bioorganic Chemistry, Polish Academy of Sciences, Poznan, Poland
Project: “RNA toxicity in polyglutamine disorders”, I was awarded with scholarship from Foundation for Polish Science, Supervisor: Prof. Włodzimierz J. Krzyzosiak; I took part in analysis of RNA toxicity markers in patient-derived cell lines and designing methods of reprogramming for these cells

- Human cells reprogramming (lentiviral vectors)
- Development of tests for new RNA toxicity markers
- Studying microRNA processing and RAN translation

01.12.2012 – 30.08.2013, Research Assistant

Celther Poland Sp z o.o. Łódź; I took part in the European project: “Developing an effective and safe therapy based on the use of stem cells”

- Human cells reprogramming (Sendai vectors, lentiviral and adenoviral vectors)
- Pluripotency tests, spontaneous differentiation assay
- Generation of cell lines with oncogene expression and cytotoxicity tests

01.07 – 30.10.2012, Lab Assistant

Histopathology Laboratory in Siemianowice Slaskie; I participated in all stages of processing the material for histopathological tests.

- Preparation of paraffin slides and IHC staining
- Classification and describing samples from patients

TRAININGS

15-24.03.2016, Hepatic differentiation, Prof. Catherine Verfaillie, Ruben Boon

Laboratory of Stem Cell Biology and Embryology at the University of Leuven, Belgium

- Highly efficient hepatic differentiation and cell characterization

03-11.03.2016, Cell encapsulation methods, Prof. Cécile Legallais, Dr. Vittoria Pandolfi

University of Technology in Compiègne, France

- Cell encapsulation methods, isolation of rat liver cells, bed fluidized bioreactor

10-27.02.2016, Programing for Evolutionary Biology Course, Leipzig Germany

- Analysis of differentially expressed genes and microRNAs, basic of R and Python

15-24.03.2015, Confocal microscopy, Dr. Loredana De Bartolo, Dr. Simona Salerno

Institute on Membrane Technology, National Research Council of Italy, ITM-CNR, University of Calabria, Rende, Italy

EDUCATION

10/2010 – 06/2012 Degree: Master

Thesis: “Effect of heme oxygenase-1 in cell reprogrammig”, Supervisor: Prof. Józef Dulak, Specialization: Biotechnology, Jagiellonian University, Krakow, Faculty of Biochemistry, Biophysics and Biotechnology, Department of Medical Biotechnology

- Mouse cells reprogramming, iPSC characterization, differentiation
- Comparing reprogramming efficiency by FACS, PRC and Western Blots
- Production of lentiviral vectors

10/2007 – 06/2010 Degree: Bachelor

Thesis: “Induced pluripotent stem cells as a new type of stem cells”, Specialization: Biology, Silesian University, Katowice, Faculty of Biology and Environment Protection, Department of Animal Embryology and Histology

LANGUAGE

Polish native
English fluent
German beginner

PERSONAL INTERESTS

- 10/2010 – 06/2012 Member of “Mygen” Students Scientific Association
- 2012 Voluntary activities at Krakow Photomonth Festival
- 2006 Volunteering at the Zoo, Chorzów, Poland

Hobbies: Mountain hiking, greyhound expert

