



Department of Medical Biochemistry and
Biophysics
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Amirata Saei, Proteomics and Cancer (DPHA, PhD candidate)

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Education

PhD Candidate: Expected 2018, Karolinska Institutet, Stockholm, Sweden

Doctorate in Pharmacy (DPHA): 10/2010, Tabriz University of Medical Sciences, Tabriz, Iran

Training

Research School for Drug Discovery and Development: Jan 2015 – May 2015, Karolinska Institutet, Uppsala
Universitet and SciLifeLab, Uppsala and Stockholm, Sweden

Max Quant Summer School (Max Planck Institute of Biochemistry): June 29th – July 3rd, 2015, Martinsried,
Germany

Multivariate Data Analysis, Umetrics, March 17th – 18th, 2015, Stockholm, Sweden

Thesis

Amir Ata Saei: *Discovery of Anticancer Lead Compounds from Echinum italicum*. 10/2010, Degree: **DPHA**,
Supervisors: Prof. Yadollah Omid, Jaleh Barar and Hossein Nazemiyeh

Research Experience

June 2014 – present

Karolinska Institutet, MBB

PhD Student, Prof. Roman Zubarev

-Molecular mechanisms and targets of new anticancer treatments

-Mass spectrometry based proteomics

June 2013 – May 2014

Tehran University of Medical Sciences

Visiting Researcher, Dr. Morteza Mahmoudi

-Nanoparticle protein corona in drug delivery and nanotoxicology

Oct 2011 – June 2013

Tabriz University of Medical Sciences

Researcher, Prof. Yadollah Omid and Davoud Asgari

-Nanoparticle-mediated drug/gene delivery

Awards & Grants

March 2015

Internship in Karo Bio

Research School for Drug Discovery and Development

Huddinge, Sweden

Sep 2014

KID funding

Karolinska Institutet

Stockholm, Sweden

Skills & Activities

Experimental skills & experiences Cell culture, molecular biology techniques, mass spectrometry, statistical data analysis

Languages English, Swedish, French, Persian

Scientific Interests
- Cancer and cell death
- Devising proteomic-based methods

Selected Journal Publications

Parisa Ghanbari, Mahsa Mohseni, Maryam Tabasinezhad, Bahman Yousefi, **Amir Ata Saei**, Simin Sharifi, Mohammad Reza Rashidi, Nasser Samadi: Inhibition of survivin restores the sensitivity of breast cancer cells to docetaxel and vinblastine. *Applied Biochemistry and Biotechnology* 2014; 174(2): 667-681.

Sophie Laurent, **Amir Ata Saei**, Shahed Behzadi, Arash Panahifar, Morteza Mahmoudi: *Superparamagnetic iron oxide nanoparticles for delivery of therapeutic agents: opportunities and challenges*. *Expert Opinion on Drug Delivery* 2014; 11(9): 1449-1470.

Abolfazl Barzegari, Nazli Saeedi, **Amir Ata Saei**: *Shrinkage of the human core microbiome and a proposal for launching microbiome biobanks*. *Future microbiology* 2014; 9(5): 639-656.

Amir Ata Saei, Abolfazl Barzegari, Mostafa Heidari Majd, Davoud Asgari, Yadollah Omid: *Fe₃O₄ nanoparticles engineered for plasmid DNA delivery to Escherichia coli*. Journal of Nanoparticle Research 2014; 16(8): 1-11.

Dariush Shanehbandi*, **Amir Ata Saei***, Habib Zarredar, Abolfazl Barzegari: *Vibration and glycerol-mediated plasmid DNA transformation for Escherichia coli*. FEMS Microbiology Letters 2013; 348(1): 74-78.

Abolfazl Barzegari, **Amir Ata Saei**: *Designing probiotics with respect to the native microbiome*. Future Microbiology 2012; 7(5): 571-575.

Somaieh Ahmadian, Jaleh Barar, **Amir Ata Saei**, Mohammad Amin Abolghassemi Fakhree, Yadollah Omid: *Cellular toxicity of nanogenomedicine in MCF-7 cell line: MTT assay*. Journal of Visualized Experiments: JoVE 2009; 26. DOI: 10.3791/1191.

Selected Conference Proceedings

Amirata Saei, Mohammad Pirmoradian, Alexey Chernobrovkin, Roman A. Zubarev. *Understanding cancer cell death and survival by proteomics*. KeyStone Conference: The Human Proteome D7, April 24-29, 2015, Stockholm, Sweden.

Amirata Saei, Alexey Chernobrovkin, Mohammad Pirmoradian, Alexandre Manoilov and Roman Zubarev. *Improving. Devising general proteomic methods for identification of drug targets for small molecule drugs*. PathProt Oct 16-17, 2014, Lisbon, Portugal.

Alexander Manoilov, **Amirata Saei Dibavar**, Roman Zubarev. *Proteomics-based method for identification of the protein targets of small-molecule drugs*. SMSS Oct 5-7, 2014, Stockholm, Sweden.