

## Curriculum Vitae(revised May 2021)

### Fatemeh sadeghifar, PhD



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### Education Background

**2012** PhD, Cell Biology, University of Stockholm, Stockholm, Sweden

**1996** MSc, Developmental Biology, University of Kharazmi, Tehran, Iran

**1994** BSc, Biology, Tehran University, Tehran, Iran

### Thesis

**M.Sc. thesis:** The effect of Berberis Vulgaris extracts on development of Balb/C mouse in the 7, 8, 9 days of gestation

**PhD thesis:** Regulation of RNA polymerase I and RNA polymerase III transcription by the chromatin remodelling complex B-WICH.

### Teaching Experience

**Undergraduate Courses:** Cell Biology, Embryology, Histology

**Graduate Courses:** Chromatin Structure, Regulation of Eukaryotic Gene Expression, Cell and Molecular mechanism of Cancer, Developmental Biology and organogenesis in vertebrates

**Lab assistant** for MCB course, Stockholm University

**Lab assistant** for Methods in biology and cell biology courses for graduate students, Stockholm University

## Employment

1996-2005 Lecturer, Hakim Sabzevari University, Iran  
2005-2007 Project assistant, Stockholm University, Sweden  
2007-2012 PhD student, Stockholm University, Sweden  
2012-2014 Head of Department of Biology, Hakim Sabzevari University, Iran  
2018-2021 Vice president, Hakim Sabzevari University, Iran  
2021-present Assistant professor, Hakim Sabzevari University, Iran

## Skills

- Chromatin IP (ChIP)
- QPCR, RT-QPCR
- Mammalian cell tissue culture (HeLa, HEK) and S2 cell, Stem cells ,MSCs
- Immunostaining and confocal microscopy
- Western Blotting & Immunoprecipitation (IP)
- Cell Transfection, siRNA,, Molecular cloning
- Phosphorylation assay
- Histological staining
- FACS

## Awards

Scholarship for PhD study from Iran Ministry of Science, Research and Technology

## Publication

### Research Papers:

-The chromatin-remodeling complexes B-WICH and NuRD regulate ribosomal transcription in response to glucose. Rolicka A, Guo Y, GañezZapater A, Tariq K, Quin J, Vintermist A, **Sadeghifar F**, Arsenian-Henriksson M, ÖstlundFarrants AK.

**FASEB J.** 2020 Aug doi.org/10.1096/fj.202000411R

-Exposure to suboptimal ambient temperature during specific gestational periods and adverse outcomes in mice. Mayvaneh F, Entezari A, **Sadeghifar F**, Baaghideh M, Guo Y, Atabati A, Zhao Q, Zhang Y.

**Environmental Science and Pollution Research** 27 (36), 45487-45498 2020

- Identify the short-term effects of exposure thermos-hygrometric stress on embryonic development. F Mayvaneh, A Entezari, **F Sadeghifar**, M Baaghideh, A Atabati.

**Journal of Animal Environment** 12 (3), 69-76 2020

- Immunosuppressive Effects of Human Chorionic Gonadotropin (hCG) on Mesenchymal Stromal Cells. SS Hosseini, S Mehrzad, H Hassanzadeh, HR Bidkhorji, M Mirahmadi, **F Sadeghifar...**

**Journal of Cell and Molecular Research** 11 (2), 90-98 2020

- Vitamin E Pretreatment of Mesenchymal Stem Cells: The Interplay of Oxidative Stress and Inflammation. S Mehrzad, SS Hosseini, M Momeni-Moghaddam, M Farshchian, **F Sadeghifar**...  
**Journal of Cell and Molecular Research** 11 (2), 99-107 2020

- The anti-bacterial effects of magnetic iron oxide nanoparticles produced by biological method and the kinetic study of mortality of common strains in clinical infections. M Fatemi, N Mollania, M Momeni-Moghaddam, **F Sadeghifar**.  
**Nova Biol. Reperta** 6 (1), 30-38 2019

- Extracellular biosynthesis of magnetic iron oxide nanoparticles by *Bacillus cereus* strain HMH1: Characterization and in vitro cytotoxicity analysis on MCF-7 and 3T3 cell lines. Mohsen Fatemi, Nasrin Mollania, Majid Momeni-Moghaddam, **Fatemeh Sadeghifar**.  
**Journal of Biotechnology** 270 (2018) 1–11

- The B- WICH chromatin remodelling complex regulates RNA polymerase III transcription by promoting Max dependent c-Myc binding. **Fatemeh Sadeghifar**, Stefanie Böhmer, Anna Vintermist and Ann-Kristin Ostlund-Farrants  
**Nucleic Acids Res.** 2015 Apr 16; 43(8):3122-3132. doi: 10.1093/nar/gkv312

- Nuclear Myosin 1c Facilitates the Chromatin Modifications Required to Activate rRNA Gene Transcription and Cell Cycle Progression. Aishe Sarshad\*, **Fatemeh Sadeghifar**\*, Emilie Louvet\*, Raffaele Mori, Stefanie Böhmer, Bader Al-Muzzaini, Anna Vintermist, Nathalie Fomproix, Ann-Kristin Ostlund, Piergiorgio Percipalle  
**PLoS Genet.** 2013 Mar; 9(3):e1003397. doi: 10.1371/journal.pgen.1003397

- The Chromatin Remodelling Complex B- WICH Changes the Chromatin Structure and Recruits Histone Acetyltransferases to Active rRNA Genes. Anna Vintermist, Stefanie Böhmer, **Fatemeh Sadeghifar**, Emilie Louvet, Anthe Mansehn, Piergiorgio Percipalle, Ann-Kristin Ostlund-Farrants  
**PLoS One** 2011 Apr 29; 6(4):e19184. doi: 10.1371/journal.pone.0019184

- Distinct functions of the *Drosophila* Nup153 and Nup214 FG domains in nuclear protein transport. Nafiseh Sabri, Peggy Roth, Nikos Xylourgidis, **Fatemeh Sadeghifar**, Jeremy Adler, and Christos Samakovlis  
**J Cell Biol** 2007 Aug 13; 178(4):557-65. doi: 10.1083/jcb.200612135

#### **Book:**

Chromatin remodeling and RNA polymerase I, III transcription  
LAP LAMBERT Academic Publishing (January 11, 2018)

#### **Poster Presentation & Conference attendance**

- A Swedish network meeting in Epigenetic (Stockholm) Sep. 2007
- Chromatin Replication and Chromosomal Stability (BRIC, Copenhagen) June 2009
- 3th Swedish network meeting in Epigenetic (Göteborg) Sep. 2009
- 9th EMBL Conference Transcription and Chromatin (Heidelberg) Aug. 2010 PP

- Signaling to Chromatin (Wellcome trust center, Hinxton, Cambridge) Sep. 2010 PP
- 4 th Swedish network meeting in Epigenetic (Karolinska Hospital University, Stockholm) Oct. 2010
- Actin and Actin-Associated Proteins from Genes to polysomes (Stockholm) Sep. 2011
- 2th International Stem Cells & Regenerative Medicine Congress (Mashhad-Iran) Apr. 2017
- 2th International and 4th National Congress of Wound Healing and Tissue Repair (Tehran, Iran) Oct.2017