

Maryam Shahhoseini, Ph.D

Assistant Professor and Academic Member of Royan Institute,
Invited Academic Member of Biotechnology Department,
Collage of Science, University of Tehran,
P.O. BOX: 19395-4644, Tehran, Iran
Tel: 0098 21 22306485
Fax: 0098 21 22310406
E-mail: hoseini@ibb.ut.ac.ir
m.shahhoseini@royaninstitute.org



Education

- **2007:** Ph.D. Degree in Biochemistry (1st rank, with a general average of 19.43 out of 20), in the Institute of Biochemistry and Biophysics, University of Tehran, Tehran.
- **2001:** M. Sc. Degree in Biochemistry (1st rank, with a general average of 18.81 out of 20), in the Institute of Biochemistry and Biophysics, University of Tehran, Tehran.
- **1998:** B. Sc. Degree in Microbiology (1st rank, with a general average of 18.45 out of 20) in the Faculty of Sciences, University of Tehran, Tehran.
- **1994:** Diploma in Natural Sciences (1st rank, with a general average of 19.30 out of 20) in Ershad high school, Tehran.

Achievements during Education

- 1st rank in PhD Biochemistry entrance exam among 60 volunteers.
- 1st rank in PhD Biochemistry general exam.

Teaching

"Advance Molecular Biology", "Molecular Biotechnology" and "Cell Biology" courses in Department of Biotechnology, Collage of Sciences, University of Tehran (2007-now).

Current Field of Research

Epigenetic analyses of cellular fate and function, with focus on chromatin structure and modifications.

Awards

1. The best poster winner of the 4th Royan International Research Congress on Stem Cell Biology and Technology. My project entitled: "Identification of H2A.Z and H1.0 histone variants with different expression pattern during retinoic acid induction of human embryonic carcinoma cells".
2. Award winner of the American Society of Human Genetics, 2012.
3. Award winner of the 12th Festival of Appreciation of Selective Researchers in Iran, 1390/2011.

Publications

1. **Shahhoseini, M.**, Ziaee, A-A. and Ghaemi, N. (2003) Expression and secretion of an alpha-amylase gene from a native strain of *Bacillus licheniformis* in *Escherichia coli* by T7 promoter and putative signal peptide of the gene. *Journal of Applied Microbiology* **95**, 1250-1254.
2. **Shahhoseini, M.**, Ziaee, A-A., Pourbabai, A-A., Ghaemi, N. and Declerck, N. (2005) A natural variant of *Bacillus licheniformis* alpha-amylase isolated from flour mill wastewaters sheds light on the origin of high thermostability. *Journal of Applied Microbiology*, **98**, 24-32.
3. **Shahhoseini, M.** and Ziaee, A-A. (2001) Gene Submission in GenBank with Accession Number "AF438149".
4. **Shahhoseini, M.**, Rabbani, A. and Abdossamadi, S. (2007) Identification of non-histone protein LMG₁₆₀ as a ribonucleoprotein of the nuclear matrix with a role in transcription in vitro. *Biochimie* **89**, 1343-1350.
5. Totonchi, M., **Shahhoseini, M.**, Momeni Moghadam, M., Baharvand, H. (2007) Epigenetics of Stem Cells. *Yakhteh Med. J.* **9**, 51-66.
6. **Shahhoseini, M.** and Rabbani, A. (2008) Transcriptional inhibition by a non-histone protein from low mobility group in homologous and heterologous in vitro systems. *Mol. Biol. Rep.* **35**, 189-193.

7. **Shahhoseini, M.**, Rabbani, A. and Abdossamadi, S. (2009) Evidence for the structural stability of ribonucleoprotein LMG₁₆₀ under ribonuclease-A treatment. *Mol. Cell. Biochem.* **321**, 65-72.
8. **Shahhoseini, M.**, Rabbani, A. (2009) An overview to the structure and function of nuclear matrix. *Yakhteh Med. J.* **10**, 232-241.
9. Jadaliha, M. and **Shahhoseini, M.** (2010) Epigenetic and Cellular Memory. *Yakhteh Med. J.* **12**, 311-318.
10. **Shahhoseini M**, Taei A, Mehrjardi NZ, Salekdeh GH, Baharvand H. (2010) Epigenetic analysis of human embryonic carcinoma cells during retinoic acid-induced neural differentiation. *Biochem Cell Biol.* **88**, 527-38.
11. **Shahhoseini M**, Favaedi R, Baharvand H, Sharma V, Stunnenberg HG. (2010) Evidence for a dynamic role of the linker histone variant H1x during retinoic acid-induced differentiation of NT2 cells. *FEBS Lett.* **584**, 4661-4.
12. Baghban Eslami, M. R., Karimi, N., **Shahhoseini, M.** (2011) Enhancement of glycosaminoglycan-rich matrix production in human marrow-derived mesenchymal stem cell chondrogenic culture by lithium chloride and SB16763 treatment. *Yakhteh Med. J. (Cell J.)* **13**, 117-126.
13. Favaedi, R., **Shahhoseini, M.**, Akhoond, M.R. (2012) Comparative epigenetic analysis of Oct4 regulatory region in RA-induced differentiated NT2 cells under adherent and non-adherent culture conditions. *Mol. Cell. Biochem.* **363**, 129-34.