



Name: Mona Saheli

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Languages

- 1/ Persian
- 2/ English

Educations

- 1/ Ph.D. in Anatomy, school of Medicine, Shahid Beheshti University of Medical Science, Iran 2017
- 2/ M.Sc. in Anatomy, school of Medicine, Shahid Beheshti University of Medical Science, Iran 2011
- 3/ B.Sc. in Midwifery, school of Medicine, Kerman University of Medical Science, Iran 2007

Occupation

Assistant Professor of Anatomy

Teaching Experience

- 1/ Theoretical and practical gross anatomy to B.Sc., M.Sc., Medical students (anatomy, embryology, histology)

Research Interests

- 1/ Embryology
- 2/ Histology
- 3/ Hepatology and Toxicology
- 4/ Tissue engineering approach for improving in vitro liver model

Skill-set

- 1/ Isolation and culture of mesenchymal stem cells
- 2/ Isolation of endothelial cells from human umbilical cord vein
- 3/ Culture of endothelial cells
- 4/ Culture of Huh7 cells
- 5/ 3D cell culture
- 6/ Liver decellularization
- 7/ Liver extracellular matrix hydrogel preparation
- 8/ Liver organoid creation
- 9/ Histology techniques (immunohistochemistry and immunocytochemistry staining, SEM)

Honors

Award winning for best poster presentation at “15th International Congress on Stem Cell Biology & Technology” (2019).

Technical Proficiency

- 1/ Participated in "Second Precongress on Stem Cells Training" Royan Institute (summer 2010)
- 2/ Histology Basic, immunohistochemistry and immunofluorescence staining workshop. Royan institute, February 2017
- 3/ Isolation of Mesenchymal stem cells workshop, Shahid Beheshti University of Medical Science second summer school, August 2017

Workshops and Congresses

TITLE	Congress	DATE
Evaluation of the 5-azacytidine induction in differentiation of human bone marrow mesenchymal stem cells to cardiomyocyte-like cells (oral presentation)	10th National Congress of Anatomical Sciences, Rasht, Iran	April, 2012
Generation of Functional Liver Organoid by Co-Culture of Human Hepatocellular Carcinoma Cells with Non-parenchymal Cells in Collagen Hydrogel (poster)	14 th International Congress on Stem Cell Biology & Technology	August, 2018
Induction of hepatic functions in Hepatic Cell line by Liver extracellular matrix Hydrogel (oral presentation)	13th National Congress of Anatomical Sciences, Hamedan, Iran	October, 2018

Improvement of Diabetic Open Skin Wound Healing by Human Bone Marrow-Mesenchymal Stem Cells Conditioned Media, A Preclinical Study (poster)	3 th International Congress on Stem Cell and Regenerative Medicine	November, 2018
Self-Organization of Liver Organoids in 3D Liver Extracellular Matrix-derived Hydrogel	15 th International Congress on Stem Cell Biology & Technology	August, 2019

Current Researches

- 1/ The evaluation on the role of liver extracellular matrix-derived injectable hydrogel in hepatic tissue repair
- 2/ Estradiol role evaluation in recruitment of endogenous stem cells following liver-derived hydrogel injection in rat model of partial hepatectomy

Published papers

- 1/ Fatemeh Nobakht#, **Mona Saheli**#, Zahra Farzaneh, Payam Taheri, Mahshad Dorraj, Hossein Baharvand, Massoud Vosough, Abbas Piryaee. Generation of Transplantable Three-Dimensional HepaticPatch to Improve the Functionality of Hepatic Cells *in vitro* and *in vivo*. Stem Cells Dev. 2019 Dec 19. doi: 10.1089/scd.2019.0130.
- 2/ **Mona Saheli**, Mohammad Bayat, Rasoul Ganji, Farzane Hendudari, Raziye Kheirjou, Mohammad Pakzad, Baran Najari, Abbas Piryaee. Human mesenchymal stem cells-conditioned medium improves diabetic wound healing mainly through modulating fibroblast behaviors. Arch Dermatol Res. 2019 Nov 30. doi: 10.1007/s00403-019-02016-6.
- 3/ Zare H, Jamshidi S, Dehghan MM, **Saheli M**, Piryaee A. Bone marrow or adipose tissue mesenchymal stem cells: Comparison of the therapeutic potentials in mice model of acute liver failure. J Cell Biochem. 2018 Jul; 119(7):5834-5842.
- 4/ **Saheli M**, Sepantafar M, Pournasr B, Farzaneh Z, Vosough M, Piryaee A, Baharvand H. Three-dimensional liver-derived extracellular matrix hydrogel promotes liver organoids function. J Cell Biochem. 2018 Jun; 119(6):4320-4333.

5/ Piryaei A, Soleimani M, Heidari MH, **Saheli M**, Rohani R, Almasieh M. Ultrastructural Maturation of Human Bone Marrow Mesenchymal Stem Cells derived Cardiomyocytes under Alternative Induction of 5-Azacytidine. Cell Biol Int. 2015 May; 39(5):519-30.

INTERESTS

Running

Walking

Last update: November, 2020