

CV

Name: Seyedeh Nafiseh

Sure Name: Hassani

Address: Stem Cell and Developmental Biology Department, Royan Institute for Stem Cell Biology and Technology, Hafez Alley Nr.2 , Banihashem, Resalat, Tehran 16635-148, Iran



Research Group/Core Facility: Biology of pluripotent stem cells

Employment: Assistant Professor of Stem Cell and Developmental Biology

1: Personal Information

Name: Seyedeh Nafiseh Hassani

Gender: Female

Marital Status: Married

Nationality: Iranian

Date of birth: year: 1981 month: 3 day: 5

Place of Birth: Tehran

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2: Educational Background

Degree	Major	University	Date
B.Sc	Cellular and Molecular Biology	Tehran Uni. (Tehran, Iran)	1998-2002
M.Sc	Cellular and Molecular Biology	Khatam Uni. (Tehran, Iran)	2003-2006
Ph.D	Developmental Biology	Science and Culture Uni./Royan Institute (Tehran, Iran)	2008-2013

3: Teaching Experiences

Course	Location (University)	Level	Date
Cellular signal transduction	University of Science & Culture	Ph.D M.Sc	2013-now
Stem Cells	University of Science & Culture	M.Sc	2013-now
Developmental biology	University of Science & Culture	Ph.D M.Sc	2010-now
Cell biology	University of Science & Culture	M.Sc	2011-2016
Animal cell culture	University of Science & Culture	M.Sc	2010-2013

4: Employment

- Head of Stem Cell and Developmental Biology Department at Royan Institute (2021-now)
- Production Manager at Advanced Therapy Medicinal Product (ATMP) center of Royan Institute (2016-now)
- Assistant Professor of Stem Cell and Developmental Biology (2015-now)
- Lab. Manager and Research assistant at Royan Institute (www.royaninstitute.org, 2007-2015).

5: Interests

- GMP cell therapy manufacturing and GMP cell banking
- Investigation of cellular and molecular mechanisms of pluripotency
 - a. Evaluation of naive and primed states of pluripotency in human pluripotent stem cells
 - b. Evaluation of pluripotency by xenogeneic chimera formation with chick embryo
 - c. Evaluation of immunogenicity of human pluripotent stem cells in different models of cancer
 - d. Optimization of differentiation of pluripotent human stem cells into hematopoietic stem cells
- Cell therapy
 - a. Production of human mesenchymal stromal cells for clinical purposes
 - b. Evaluation of therapeutic efficacy of mesenchymal stromal cells in disease models
 - c. Production of fibroblasts and keratinocytes derived from foreskin tissue to make skin substitute products

- d. Evaluation of therapeutic efficacy of skin replacement products in diabetic burn and wound model
- e. Production of human embryonic stem cells and differentiation

6: Research Experiences

- Good Manufacturing Practice
- Cell therapy
- Mouse and Human Preimplantation Embryology
- Mouse and Human Embryonic and induced pluripotent Stem Cells: Biology, Establishment and Maintenance
- Hematopoietic stem cell differentiation from human pluripotent stem cells
- Cellular Signal Transduction

7: Honors

- Invited speaker in 12th Royan International E-Summer School on Advanced Therapy Medicinal Products: Application of Biological Science. 24-27 Jul. 2021
- Invited speaker in the Royan-TESMA International Joint Webinar on Tissue Engineering & Regenerative Medicine. 26 Apr. 2021.
- Invited speaker in the First International Iranian Tissue Engineering and Regenerative Medicine Congress (1th ITERM). 18-20 Jul. 2018
- Scientific chairperson of 8th Royan International Summer School on Immuno-Oncology and Translational Cancer Research. 22-27 Jul. 2017
- Referee of Royan International Twin Congress, 2016-now
- Invited speaker in Second International Stem Cells and Regenerative Medicine Congress. April 2017
- Invited speaker in Second International & Fourteenth Iranian Genetics Congress May 2016
- Invited speaker in Pre-congress of 12th Royan International Twin Congress, September 6, 2011. Title: Pluripotent Stem Cells: Identity, Origin and Challengeable issues.
- Invited speaker in second Royan International Summer School on Stem Cells and Developmental Biology. July 17-22, 2011. Title: Pluripotent Stem Cells
- Invited speaker in Embryology Symposium. February 23-24, 2011. Title: The application of stem cells in embryology.

- Invited speaker in Pre-congress of 11th Royan International Twin Congress, September 14, 2010. Title: Embryonic Pluripotent Stem Cell Lines and the Importance of Extrinsic Regulation.
- Invited speaker in first Royan International Summer School on Stem Cells and Developmental Biology. July 12-15, 2010. Title: From Stem Cells to Germ Cells.
- Invited speaker in 10th Royan International Twin Congress, September 23-25, 2009. Tehran, Iran. Title: Rock Inhibitor Supports Efficient Cryopreservation and Enhances Cloning Efficiency of Feeder-Free Human Pluripotent Stem Cells

8: Awards

- The best selected articles in the first Iranian Council for Stem Cell Sciences and Technologies 2015 festival. Honor of 8000\$ scientific grant.
- The best oral presentation in Iranian Society of Embryology and Reproductive Biology (ISERB) 2015 Congress. Title: Suppression of Transforming Growth Factor β Signaling Promotes Ground State Pluripotency from Single Blastomeres.
- National winner of 15th Royan International Research Award, September 2014. Title: The Augmented BMP Pluripotency Pathway via TGF- β Suppression Maintains the Ground State of Embryonic Stem Cells self-renewal.
- The best oral presentation in second Royan International Summer School on Stem Cells and Developmental Biology. July 17-22, 2011. Title: Pluripotent Stem Cells
- The best Researcher in Royan Institute. Feb 2011: Title: Innovation of a new way for production of 150 mouse embryonic stem cell lines.
- The best oral presentation in Precongress of 11th Royan International Twin Congress, September 14, 2010. Title: Embryonic Pluripotent Stem Cell Lines and the Importance of Extrinsic Regulation.

9: Executive Activities

- Head of Stem Cell and Developmental Biology Department at Royan Institute (2021-now)
- Cell production manager at ATMP in Royan Institute, 2016-now.
- Senior researcher of Biology of Pluripotent Stem Cell Program. Royan Institute, 2009-now.
- Lab manager of Pluripotent Stem Cell Labs. Royan Institute, 2009-now.
- Executive Director of culture and maintenance of human and mouse pluripotent stem cells workshops. Pluripotent Stem Cell Labs. Royan Institute, 2009-2013
- Scientific Director of culture and maintenance of human and mouse pluripotent stem cells workshops. Pluripotent Stem Cell Labs. Royan Institute, 2014-now.

10: Presentation

No	Title	Author	Location	Pres.	Date
1.	Challenges and Processes for Development of GMP-Grade Human Embryonic Stem Cells.	Seyedeh Nafiseh Hassani	Royan International E-Summer School on Advanced Therapy Medicinal Products: Application of Biological Science	Oral presentation	July 2021
2.	Mesenchymal Stromal Cells as Therapeutic Tools in Regenerative Medicine	Seyedeh Nafiseh Hassani	Royan TESMA international joint Webinar on Tissue Engineering and Regenerative Medicine	Oral presentation	April 2021
3.	Potential and Challenges of Pluripotent Embryonic Stem Cells in Treatment of Human Diseases	Seyedeh Nafiseh Hassani	1 th ITERM	Oral presentation (invited speaker)	July 2018
4.	Induction of human naive pluripotency by a novel chemical approach	Seyedeh Nafiseh Hassani,	2 nd International Stem cells and regenerative congress	Oral presentation (invited speaker)	April 2017
5.	Inhibition of TGF- β signaling sustains embryonic stem cell self-renewal	Seyedeh Nafiseh Hassani	2 nd International & 14 th Iranian Genetics Congress	Oral presentation (invited speaker)	May 2016
6.	Suppression of Transforming Growth Factor β Signaling Promotes Ground State Pluripotency from Single Blastomeres	Seyedeh Nafiseh Hassani,	1 th ISERB International Congress, Tehran, Iran	Oral presentation	May 2015
7.	The Augmented BMP Pluripotency Pathway via TGF- β Suppression Maintains the	Seyedeh Nafiseh Hassani,	15 th Royan International Research Award, Royan	Oral presentation	Aug 2014

No	Title	Author	Location	Pres.	Date
	Ground State of Embryonic Stem Cells Self-Renewal		Institute, Tehran, Iran		
8.	Efficient Generation of Human Embryonic Stem Cells from Single Blastomeres of poor-quality cleavage embryos	Dr Hossein Baharvand, Adeleh Taei, Seyedeh Nafiseh Hassani , Dr Poopak Eftekhari Yazdi, Dr M. Nokhbatolfoghahaei, Dr H. Gourabi	12th International conference of preimplantation genetic diagnosis	Oral presentation	May 2013
9.	Molecular tracing of mES cell derivation from blastocysts in the presence of TGF β and Erk signaling inhibitors	Mehdi Totonchi, Seyedeh Nafiseh Hassani , Mojtaba Rezazadeh Valojerdi, Dr Poopak Eftekhari Yazdi, Dr H. Gourabi, Dr H. Baharvand	14th Royan International Twin Congress, Royan Institute, Tehran, Iran	Poster	Aug 2013
10.	Analysis of the chromosomal stability and micronuclei formation of mouse embryonic stem cell in medium containing R2i (TGF-B and ERK1, 2 Inhibitor) and 2i (GSK-3 and ERK1,2 Inhibitors)	Najmeh Sadat Masoudi, Dr H. Baharvand, Seyedeh Nafiseh Hassani , Dr Anahita Mohseni Meybodi, S. Mollamohammadi, Sh. Zarei Moradi, Z. Mansouri, Dr H. Gourabi	14th Royan International Twin Congress, Royan Institute, Tehran, Iran	Poster	Aug 2013
11.	Comparison of the chromosomal stability of mouse embryonic stem cell in medium containing R2i(TGF-B and ERK1,2 inhibitors) by karyotyping	Najmeh Sadat Masoudi, Dr H. Baharvand, Seyedeh Nafiseh Hassani , Dr Anahita Mohseni Meybodi, S. Mollamohammadi, Sh. Zarei Moradi, Z. Mansouri, Dr H. Gourabi	14th Royan International Twin Congress, Royan Institute, Tehran, Iran	Poster	Aug 2013
12.	Inhibition of TGF- β signaling could substitute the inhibition of	Seyedeh Nafiseh Hassani , Mehdi Totonchi, Sepideh Mollamohamadi,	10th ISSCR Annual Meeting,	Poster	June 13-16, 2012

No	Title	Author	Location	Pres.	Date
	multifunctional GSK3 in naïve mouse embryonic stem cells	Azam Samadian, Mohamad Pakzad, Hossein Baharvand, Hamid Gourabi	Yokohama, Japan		
13.	Efficient Derivation of Pluripotent Stem Cells From Neonatal Mouse Testis Using Small Molecules	Faezeh Moraveji, F. Attari, A. Shahverdi, H. Sepehri, A. Farrokhi, Seyedeh Nafiseh Hassani , H. Fonoudi, N. Aghdami, Dr H. Baharvand	10th ISSCR Annual Meeting, Yokohama, Japan	Poster	June 13-16, 2012
14.	Pluripotent Stem Cells	Seyedeh Nafiseh Hassani ,	The 3rd Royan International Summer School, Royan Institute, Tehran, Iran	Oral presentation	14 Jul 2012
15.	Tracing the derivation of mouse embryonic stem cells from blastocysts in the presence of TGF- β and erk signaling inhibitors	Mehdi Totonchi, Seyedeh Nafiseh Hassani , M. Rezazadeh, P. Eftekhari, H. Gourabi, H. Baharvand	Cell Symposia: Stem Cell Programming & Reprogramming, Portugal	Poster	Dec 2011
16.	Pluripotent Stem Cells	Seyedeh Nafiseh Hassani	The 2nd Royan International Summer School	Oral presentation	17 Jul 2011
17.	Pluripotent Stem Cells: Identity, Origin and Challengeable issues	Seyedeh Nafiseh Hassani	3th of Royan Stem Cells Precongress,. Royan Institute, Tehran, Iran	Oral presentation	6 Sep 2011
18.	The Application of Stem Cells in Embryology		1th Symposium of Embryology, Royan Institute, Tehran, Iran	Oral presentation	24 Feb 2011
19.	From Stem Cells to Germ Cells	Seyedeh Nafiseh Hassani	The 1nd Royan International Summer School	Oral presentation	12 Jul 2010

No	Title	Author	Location	Pres.	Date
20.	Embryonic Pluripotent Stem Cell Lines and the Importance of Extrinsic Regulation	Seyedeh Nafiseh Hassani	2th of Royan Stem Cells Precongress,. Royan Institute, Tehran, Iran	Oral presentation	13 Sep 2010
21.	Establishment of human induced Pluripotent stem cells from retinal specific Disorders	Hassani, Nafiseh, Totonchi, Mehdi, Tae, Adeleh, Seifinejad, Ali, Gourabi, Hamid, Aghdami, Nasser, Hosseini Salekdeh, Ghasem, Baharvand, Hossein	7th ISSCR Annual Meeting Barcelona, Spain	Poster	Jully 8-11, 2009
22.	Amastin signature is highly antigenic inactive stage of visceral leishmaniasis	Sima Rafati, H Movassagh, Nafiseh Hassani, Yasaman Taslimi, Fatemeh Doustari	16th European Congress of Immunology– ECI,	Poster	September 6-9, 2006 - Paris, France
23.	Leishmania major heat shock protein 70 and sera reactivity of cutaneous and visceral Leishmaniasis individuals	Nafiseh Hassani, Elham Gholami, Fatemeh Ghaemimanes, H, Yasaman Taslimi, Sima Rafati	8th Iranian congress of immunology and allergy	Poster	May 14- 16, 2006- Tehran, Iran
24.	Cloning, expression of L.major Heat Shock Protein 70 (LmHSP70) and evaluation of its potential protection in the murine models	Elham Gholami, Nafiseh Hassani, Fatemeh Ghaemimanes, H, Sima Rafati	8th Iranian congress of immunology and allergy	Poster	May 14- 16, 2006- Tehran, Iran

11: Publication

- **Book**

1. Pluripotent Stem Cells; Stem Cells and Regenerative Medicine Book Series. Hossein Baharvand, **Seyedeh-Nafiseh Hassani**. HBio Publisher. 1398. 978-600-9736-94-2.

- **Articles**

1. Mohammad Pakzad, **Seyedeh Nafiseh Hassani***, Fatemeh Abbasi, Ensiyeh Hajizadeh-Saffar, Leila Taghiyar, Nasrin Fallah, Newsha Haghparast, Azam Samadian, Meysam Ganjibakhsh, Massimo Dominici, Hossein Baharvand. *A Roadmap for the Production of a GMP-Compatible Cell Bank of Allogeneic Bone Marrow-Derived Clonal Mesenchymal Stromal Cells for Cell Therapy Applications*. Stem Cell Reviews and Reports. 2022 Feb 17:1-17. doi: 10.1007/s12015-022-10351-x
2. Mojgan Barati, Maryam Akhondi, Narges Sabahi Mousavi, Newsha Haghparast, Asma Ghodsi, Hossein Baharvand, Marzieh Ebrahimi, **Seyedeh-Nafiseh Hassani***. *Pluripotent Stem Cells: Cancer Study, Therapy, and Vaccination*. Stem Cell Reviews and Reports. 2021. 2021 Jun 11;1-18. doi: 10.1007/s12015-021-10199-7.
3. Roghayeh Navabi, Babak Negahdari, Ensiyeh Hajizadeh-Saffar, Mostafa Hajinasrollah, Yaser Jenab, Shahram Rabbani, Mohamad Pakzad, **Seyedeh-Nafiseh Hassani**, Maryam Hezavehei, Mohammad Jafari-Atrabi, Yaser Tahamtani, Hossein Baharvand. *Combined therapy of mesenchymal stem cells with a GLP-1 receptor agonist, liraglutide, on an inflammatory-mediated diabetic non-human primate model*. Life Sci. 2021 Mar 18;119374. doi:10.1016/j.lfs.2021.119374.
4. Simin Nafian Dehkordi, Farzaneh Khani, **Seyedeh Nafiseh Hassani**, Hossein Baharvand, Hamid Reza Soleimanpour-Lichaei, Ghasem Hosseini Salekdeh. *The Contribution of Y Chromosome Genes to Spontaneous Differentiation of Human Embryonic Stem Cells into Embryoid Bodies In Vitro*. Cell J. 2021 Apr;23(1):40-50. doi: 10.22074/cellj.2021.7145. Epub 2021 Mar 1.
5. Roya Ramezankhani, Shukoofeh Torabi, Neda Minaei, Hoda Madani, Siamak Rezaeiani, **Seyedeh-Nafiseh Hassani**, Adrian P Gee, Massimo Dominici, Daniela Nascimento Silva, Hossein Baharvand, Ensiyeh Hajizadeh-Saffar. *Two Decades of Global Progress in Authorized Advanced Therapy Medicinal Products: An Emerging Revolution in Therapeutic Strategies*. Front Cell Dev Biol. 2020 Dec 17;8:547653. doi: 10.3389/fcell.2020.547653. eCollection 2020.
6. Azimeh Akhlaghpour, Adeleh Taei, Seyyed Abolghasem Ghadami, Zahra Bahadori, Saeed Yakhkeshi, Sepideh Molamohammadi, Tahereh Kiani, Azam Samadian, Zahra Ghezelayagh, Newsha Haghparast, Keynoosh Khalooghi, Thomas Braun, Hossein Baharvand, **Seyedeh-Nafiseh**

- Hassani.** *Chicken Interspecies Chimerism Unveils Human Pluripotency.* Stem Cell Reports. 2020 Dec 3:S2213-6711(20)30462-8. doi: 10.1016/j.stemcr.2020.11.014. Online ahead of print.
7. Adeleh Taei, Tahereh Kiani, Zeinab Taghizadeh, Sharif Moradi, Azam Samadian, Sepideh Mollamohammadi, Ali Sharifi-Zarchi, Stefan Guenther, Azimeh Akhlaghpour, Behrouz Asgari Abibeiglou, Mostafa Najar-Asl, Razieh Karamzadeh, Keynoosh Khalooghi, Thomas Braun, **Seyedeh-Nafiseh Hassani**, Hossein Baharvand. *Temporal activation of LRH-1 and RAR- γ in human pluripotent stem cells induces a functional naïve-like state.* EMBO Rep. (2020) 21: e47533. <https://doi.org/10.15252/embr.201847533>.
 8. Simin Nafian Dehkordi, Farzaneh Khani, **Seyedeh Nafiseh Hassani**, Hossein Baharvand, Hamid Reza Soleimanpour-Lichaei, Ghasem Hosseini Salekdeh. *The Contribution of Y Chromosome Genes to Spontaneous Differentiation of Human Embryonic Stem Cells into Embryoid Bodies in Vitro.* Volume 23, Number 1, 2021 , Serial Number: 89.
 9. Banafsheh Mirzaei-Seresht, Masood Bazrgar, Masoud Sheidai, **Seyedeh-Nafiseh Hassani**, Najmeh Sadat Masoudi, Sepideh Mollammohammadi. *Chromosomal instability reducing effect of paclitaxel and lapatinib in mouse embryonic stem cells with chromosomal abnormality.* Mol Biol Rep. 2020 Oct 15. doi: 10.1007/s11033-020-05903-8.
 10. Khadijeh Bahrehbar, Mojtaba Rezazadeh Valojerdi, Fereshteh Esfandiari, Rouhollah Fathi, Seyedeh-Nafiseh Hassani, Hossein Baharvand. *Human embryonic stem cell-derived mesenchymal stem cells improved premature ovarian failure.* World J Stem Cells. 2020 Aug 26;12(8):857-878. doi: 10.4252/wjsc.v12.i8.857.
 11. Adeleh Taei, Azam Samadian, Zahra Ghezel-Ayagh, Sepideh Mollamohammadi, Sharif Moradi, Tahereh Kiani, Ehsan Janzamin, Zahra Farzaneh, Yaser Tahamtani, Thomas Braun, **Seyedeh-Nafiseh Hassani**, Hossein Baharvand. *Suppression of p38-MAPK endows endoderm propensity to human embryonic stem cells.* Biochem Biophys Res Commun. 2020 Jun 30;527(3):811-817. doi: 10.1016/j.bbrc.2020.04.119. Epub 2020 May 20.
 12. Adeleh Taei, Paniz Rasooli, Thomas Braun, **Seyedeh-Nafiseh Hassani**, Hossein Baharvand. *Signal regulators of human naïve pluripotency.* Exp Cell Res. 2020 Apr 15;389(2):111924. doi: 10.1016/j.yexcr.2020.111924. Epub 2020 Feb 26
 13. Saman Firoozi, Sara Pahlavan, Mohammad-Hossein Ghanian, Shahram Rabbani, Maryam Barekat, Abdoreza Nazari, Mohammad Pakzad, Faezeh Shekari, **Seyedeh-Nafiseh Hassani**,

- Fariba Moslem, Fatemeh Nobakht Lahrood, Mansoureh Soleimani, Hossein Baharvand. *Mesenchymal stem cell-derived extracellular vesicles alone or in conjunction with a SDKP-conjugated self-assembling peptide improve a rat model of myocardial infarction*. *Biochem Biophys Res Commun*. 2020 Apr 16;524(4):903-909. doi: 10.1016/j.bbrc.2020.02.009. Epub 2020 Feb 10.
14. Samaneh Poursaeid, Mohammad-Reza Kalbassi, **Seyedeh-Nafiseh Hassani**, Hossein Baharvand. *Isolation, characterization, in vitro expansion and transplantation of Caspian trout (*Salmo caspius*) type a spermatogonia*. *Gen Comp Endocrinol*. 2020 Apr 1;289:113341. doi: 10.1016/j.ygcen.2019.113341. Epub 2020 Jan 16.
15. Sara Taleahmad, Mehdi Alikhani, Sepideh Mollamohammadi, Meisam Yousefi, Adeleh Taei, **Seyedeh-Nafiseh Hassani**, Hossein Baharvand, Ghasem Hosseini Salekdeh. *Inhibition of Human Y Chromosome Gene, SRY, Promotes Naïve State of Human Pluripotent Stem Cells*. *J Proteome Res*. 2019 Dec 6;18(12):4254-4261. doi: 10.1021/acs.jproteome.9b00396. Epub 2019 Oct 15.
16. Hassan Rassouli, Mona Khalaj, **Seyedeh-Nafiseh Hassani**, Shiva Nemati, Ghasem Hosseini Salekdeh, Hossein Baharvand. *Gene Expression Patterns of Royan Human Embryonic Stem Cells Correlate with Their Propensity and Culture Systems*. *Cell J*. 2019 Oct;21(3):290-299. doi: 10.22074/cellj.2019.6128. Epub 2019 May 5
17. **Seyedeh-Nafiseh Hassani**, Sharif Moradi, Sara Taleahmad, Thomas Braun, Hossein Baharvand. *Transition of inner cell mass to embryonic stem cells: mechanisms, facts, and hypotheses*. *Cell Mol Life Sci*. 2018 Nov 12. doi: 10.1007/s00018-018-2965-y.
18. Farshid Yekani, Mahnaz Azarnia, Fereshteh Esfandiari, **Seyedeh Nafiseh Hassani**, Hossein Baharvand. *Enhanced development of mouse single blastomeres into blastocysts via the simultaneous inhibition of TGF- β and ERK pathways in microdroplet culture*. *J Cell Biochem*. 2018 Sep;119(9):7621-7630.
19. Sara Taleahmad, **Seyedeh-Nafiseh Hassani**, Ghasem Hosseini Salekdeh, Hossein Baharvand. *Metabolic Signature of Pluripotent Stem Cells*. *Cell J*. 2018 Oct;20(3):388-395. doi: 10.22074/cellj.2018.5514. Epub 2018 May 15.
20. Maryam Farzaneh, Masoumeh Zare, **Seyedeh-Nafiseh Hassani**, Hossein Baharvand. *Effects of Various Culture Conditions on Pluripotent Stem Cell Derivation from Chick Embryos*. *J Cell Biochem*. 2018 Feb 2. doi: 10.1002/jcb.26761. [Epub ahead of print].

21. Soura Mardpour, **Seyedeh-Nafiseh Hassani**, Saeid Mardpour, Forough Sayahpour, Massoud Vosough, Jafar Ai, Nasser Aghdami, Amir Ali Hamidieh, Hossein Baharvand. *Extracellular Vesicles Derived from Human Embryonic Stem Cell-MSCs Ameliorate Cirrhosis in Thioacetamide-Induced Chronic Liver Injury*. J Cell Physiol. 2017 Dec 21. doi: 10.1002/jcp.26413. [Epub ahead of print]
22. Saeed Yakhkeshi, Shaban Rahimi, Mohsen Sharafi, **Seyedeh-Nafiseh Hassani**, Sara Taleahmad, Abdolhossein Shahverdi, Hossein Baharvand. *In Vitro Improvement of Quail Primordial Germ Cell Expansion through Activation of TGF-beta Signaling Pathway*. J Cell Biochem. 2017 Dec 15. doi: 10.1002/jcb.26618. [Epub ahead of print]
23. Mehdi Totonchi, **Seyedeh-Nafiseh Hassani**, Ali Sharifi-Zarchi, Natalia Tapia, Kenjiro Adachi, Julia Arand, Boris Greber, Davood Sabour, Marcos J. Araúzo-Bravo, Jörn Walter, Mohammad Pakzad, Hamid Gourabi, Hans R. Schöler, Hossein Baharvand. *Blockage of the Epithelial-to-Mesenchymal Transition Is Required for Embryonic Stem Cell Derivation*. Stem Cell Reports. 2017 Oct 10;9(4):1275-1290.
24. **Seyedeh Nafiseh Hassani**, Hadi Rezaeeyan, Asma Ghodsi, Najmaldin Saki. *Restoration of natural killer cell cytotoxicity in the suppressive tumor microenvironment: novel approaches to treat AML*. J Hematopathol (2017). Volume 10, Issue 3–4, pp 109–116
25. Sara Taleahmad, Mirzaei M, Azam Samadian, **Seyedeh-Nafiseh Hassani**, Haynes PA, Ghasem Hosseini Salekdeh, Hossein Baharvand. *Low Focal Adhesion Signaling Promotes Ground State Pluripotency of Mouse Embryonic Stem Cells*. J Proteome Res. 2017 Oct 6;16(10):3585-3595.
26. Maryam Farzaneh, **Seyedeh-Nafiseh Hassani**, Paul Mozdziak, Hossein Baharvand. *Avian embryos and related cell lines: A convenient platform for recombinant proteins and vaccine production*. Biotechnol J. 2017 May;12(5). doi: 10.1002/biot.201600598.
27. Hadi Rezaeeyan, **Seyedeh Nafiseh Hassani**, Mojgan Barati, Mohammad Shahjahani, Najmaldin Saki. *PD-1/PD-L1 as a prognostic factor in leukemia*. J Hematopathol (2017) 10: 17. <https://doi.org/10.1007/s12308-017-0293-z>
28. Hendudari F, Piryaeei A, **Seyedeh-Nafiseh Hassani**, Darbandi H, Bayat M. *Combined effects of low-level laser therapy and human bone marrow mesenchymal stem cell conditioned medium on viability of human dermal fibroblasts cultured in a high-glucose medium*. Lasers Med Sci. 2016 May;31(4):749-57.

29. Taleahmad S, Mirzaei M, Parker LM, **Seyedeh-Nafiseh Hassani**, Mollamohammadi S, Sharifi-Zarchi A, Haynes PA, Baharvand H, Salekdeh GH. *Proteome Analysis of Ground State Pluripotency*. Sci Rep. 2015 Dec 16;5:17985. doi: 10.1038/srep17985
30. Alireza Mohammadi, Farnoosh Attari, Vahab Babapour, **Seyedeh-Nafiseh Hassani**, Najmehsadat Masoudi, Abdolhossein Shahverdi, Hossein Baharvand. *Generation of Rat Embryonic Germ Cells via Inhibition of TGF β and MEK Pathways*. Cell J. 2015;17(2): 288–295
31. **Seyedeh-Nafiseh Hassani**, Mohammad Pakzad, Behrooz Asgari, Adeleh Taei, Hossein Baharvand. *Suppression of transforming growth factor β signaling promotes ground state pluripotency from single blastomeres*. Hum Reprod. 2014 Aug 29(8): 1739-48.
32. Farnoosh Attari, Hoori Sepehri, Hassan Ansari, **Seyedeh-Nafiseh Hassani**, Fereshteh Esfandiari, Behrooz Asgari, Abdolhossein Shahverdi. *Efficient Induction of Pluripotency in Primordial Germ Cells by Dual Inhibition of TGF β and ERK Signaling Pathways*. Stem Cells Dev. 2014 May 15; 23(10): 1050-61.
33. **Seyedeh-Nafiseh Hassani**, Mehdi Totonchi, Hamid Gourabi, Hans R. Schöler, Hossein Baharvand. *Signaling Roadmap Modulating Naïve and Primed Pluripotency*. Stem Cells Dev. 2014 Feb 1;23(3):193-208. doi: 10.1089/scd.2013.0368.
34. **Seyedeh-Nafiseh Hassani**, Mehdi Totonchi, Ali Sharifi-Zarchi, Sepideh Mollamohammadi, Mohammad Pakzad, Sharif Moradi, Azam Samadian, Najmehsadat Masoudi, Shahab Mirshahvaladi, Ali Farrokhi, Boris Greber, Marcos J. Araújo-Bravo, Davood Sabour, Mehdi Sadeghi, Ghasem Hosseini Salekdeh, Hamid Gourabi, Hans R. Schöler, Hossein Baharvand. *Inhibition of TGF β Signaling Promotes Ground State Pluripotency*. Stem Cell Rev. 2014 Feb;10(1):16-30. doi: 10.1007/s12015-013-9473-0.
35. Adeleh Taei, **Seyedeh-Nafiseh Hassani**, Poopak Eftekhari-Yazdi, Mojtaba Rezazadeh Valojerdi, Mohsen Nokhbatolfoghahaei, Najmeh-Sadat Masoudi, Mohammad Pakzad, Hamid Gourabi, Hossein Baharvand. *Enhanced generation of human embryonic stem cells from single blastomeres of fair and poor-quality cleavage embryos via inhibition of glycogen synthase kinase β and Rho-associated kinase signaling*. Hum Reprod. 2013 Oct;28(10):2661-71.
36. Hossein Baharvand, **Seyedeh-Nafiseh Hassani**. *A new chemical approach to the efficient generation of mouse embryonic stem cells*. Methods Mol Biol. 2013;997:13-22.

37. Seyedeh-Faezeh Moraveji, Farnoosh Attari, Abdolhossein Shahverdi, Houri Sepehri, Ali Farrokhi, **Seyedeh-Nafiseh Hassani**, Hananeh Fonoudi, Nasser Aghdami, Hossein Baharvand. *Inhibition of glycogen synthase kinase-3 promotes efficient derivation of pluripotent stem cells from neonatal mouse testis. Human Reproduction.* 2012 Aug;27(8):2312-24.
38. Azadeh Zahabi, Ebrahim Shahbazi, Hamideh Ahmadi, **Seyedeh-Nafiseh Hassani**, Mehdi Totonchi, Adeleh Taei, Najmeh Masoudi, Marzieh Ebrahimi, Naser Aghdami, Ali Seifinejad, F Mehrnejad, N Daftarian, Ghasem HosseiniSalekdeh, Hossein Baharvand. *A New Efficient Protocol for Directed Differentiation of Retinal Pigmented Epithelial Cells from Normal and Retinal Disease Induced Pluripotent Stem Cells.* Stem Cells Dev. 2012 Feb 3. [Epub ahead of print]
39. **Seyedeh-Nafiseh Hassani**, Mehdi Totonchi, Ali Farrokhi Adeleh Taei, Mehran Rezaei Larijani, Hamid Gourabi, Hossein Baharvand. *Simultaneous Suppression of TGF- β and ERK Signaling Contributes to the Highly Efficient and Reproducible Generation of Mouse Embryonic Stem Cells from Previously Considered Refractory and Non-permissive Strains.* Stem Cell Reviews and Reports. 2012 Jun; 8(2):472-81.
40. Mehran Rezaei Larijani, Ali Seifinejad, Behshad Pournasr, Vahid Hajihoseini, **Seyeden-Nafiseh Hassani**, Mehdi Totonchi, Maryam Yousefi, Farnaz Shamsi, Ghasem HosseiniSalekdeh, Hossein Baharvand. *Long-term maintenance of undifferentiated human embryonic and induced pluripotent stem cells in suspension.* Stem Cells Dev. 2011 Nov; 20(11):1911-23.
41. Mohammad Pakzad, Mehdi Totonchi, Adeleh Taei, Ali Seifinejad, **Seideh-Nafiseh Hassani**, Hossein Baharvand. *Presence of a ROCK inhibitor in Extracellular Matrix Supports More Undifferentiated Growth of Feeder-Free Human Embryonic and Induced Pluripotent Stem Cells upon Passaging.* Stem Cell Reviews and Reports. 2010; 6(1):96-107.
42. Ali Seifinejad, Adeleh Taei, Mehdi Totonchi, Hamed Vazirinasab, **Seideh-Nafiseh Hassani**, Nasser Aghdami, Ebrahim Shahbazi, Ghasem Hosseini Salekdeh, Hossein Baharvand. *Generation of Human Induced Pluripotent Stem Cells from a Bombay Individual: Moving Towards "Universal-Donor" Red Blood Cells.* Biochemical and Biophysical Research Communications. 2010; 391:329-34.
43. Sima Rafati, Elham Gholami, **Nafiseh Hassani**, Fatemeh Ghaemimanesh, Yasaman Taslimi, Tahereh Taheri, Lynn Soong. *Leishmania major heat shock protein 70 (HSP70) is not protective*

in murine models of cutaneous Leishmaniasis and stimulates strong humoral responses in cutaneous and visceral leishmaniasis patients. Vaccine. 2007; 25:4159–4169.

44. Sima Rafati, **Nafiseh Hassani**, Yasaman Taslimi, Hesam Movassagh, Annie Rochette, and Barbara Papadopoulou. *Amastin Peptide-Binding Antibodies as Biomarkers of Active Human Visceral Leishmaniasis. Clinical and Vaccine Immunology. 2006; 13:1104–1110.*

• **Research Articles in Persian:**

۱. تولید ماهی کایمر حاصل از پیوند درون صفاقی سلولهای بنیادی اسپرماتوگونی SSCs ماهی آزاد دریای خزر (Salmo caspius) تازه تفریخ شده قزل آلاهی رنگین کمان. سمانه پورسعید، محمدرضا کلباسی، سیده نفیسه حسنی، گورو یوشیزاکی، حسین بهاروند. ۱۴۰۰.
۲. تاثیر فاکتورهای القایی مختلف رشد بر توان رشد، کلونزایی و الگوی ژنتیکی سلولهای بنیادی اسپرماتوگونی ماهی آزاد دریای خزر در شرایط آزمایشگاهی. سمانه پورسعید، محمدرضا کلباسی، سیده نفیسه حسنی، گورو یوشیزاکی، حسین بهاروند. ۱۴۰۰.
۳. مکان سمانه پورسعید، محمدرضا کلباسی، سیده نفیسه حسنی، گورو یوشیزاکی، حسین بهاروند یابی و بیان رونوشت ژن vasa در بافت بیضه ماهی آزاد دریای خزر با شیوه هیبریداسیون در محل. سمانه پورسعید، محمدرضا کلباسی، سیده نفیسه حسنی، گورو یوشیزاکی، حسین بهاروند. فیزیولوژی و بیوتکنولوژی آبزیان. ۱۳۹۶. سال هفتم، شماره اول
۴. بررسی ترمیم و مطالعه کاربوتایپ در پلاناریای گونه *Schmidtea mediterranea*. اتوسا فلاحی، مانا احمد راجی، نجمه سادات مسعودی، مهناز آذرینا، سیده نفیسه حسنی. فصلنامه زیست شناسی تکوینی. سال هشتم، شماره ۱، زمستان ۱۳۹۴. صفحات: ۱۱-۱.
۵. مطالعه بیان ژنهای پرتوانی در مراحل مختلف تکوین جنینی ماهی گورخری (*Danio rerio*). امیر حسین اسماعیلی، محمدرضا کلباسی، حسین بهاروند، سیده نفیسه حسنی. فیزیولوژی و تکنولوژی آبزیان. سال سوم، شماره اول، بهار ۱۳۹۴. صفحات: ۱۱۰-۹۳.
۶. بهبود تولید رده های سلولی پرتوان هاپلوئید از جنین های پارتنوژنتیک موش به واسطه مهار همزمان مسیرهای پیام رسانی Mek و $TGF\beta$. سیده ملامحمدی، عبدالحسین شیروی، سیده نفیسه حسنی، حسین بهاروند. مجله سلول و بافت اراک. دوره ۶، شماره ۳، پاییز ۱۳۹۴، صفحه ۴۲۱-۴۳۰.

۷. بررسی تاثیر تغییرات اپی ژنتیکی بر فرآیند ترمیم پلاناریا با استفاده از تیمار به وسیله کوچک مولکول ها. مانا راجی، عبدالحسین شیروی، سیده نفیسه حسنی، حسین بهاروند. مجله سلول و بافت اراک. دوره ۶، شماره ۴، زمستان ۱۳۹۴، صفحه ۴۷۱-۴۸۰

12: Referees

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