

CV

Name: Seyedeh Nafiseh

Sure Name: Hassani

Address: Stem Cells and Developmental Biology Group of Cell Science Research Center, Royan Institute for Stem Cell Biology and Technology, ACECR, P.O. Box: 19395-4644, Tehran, 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	No. of presentation
Cellular signal transduction	University of Science & Culture	PhD of Developmental Biology	2013-now	4
Cell biology	University of Science & Culture	MSc of Developmental Biology	2011-now	5
		MSc of Cellular and Molecular Biology		1
Stem Cells	University of Science & Culture	MSc of Developmental Biology	2013-2014	1
Developmental biology	University of Science & Culture	MSc of Developmental Biology	2010-2013	9
Animal cell culture	University of Science & Culture	MSc of Developmental Biology	2010-2013	2

4: Employment

Assistant Professor of Stem Cell and Developmental Biology (2015-now)

Research assistant of Royan Institute (www.royaninstitute.org), (2007-2014).

5: Interests

- a) Early embryo development
- b) Derivation of embryonic stem cells
- c) Identification of signaling pathways in pluripotent stem cells
- d) Industrial cell culture for cell therapy applications

6: Trainings

Summer school on bioinformatics: gene expression analysis. Institute for Research in Fundamental Science (IPM), 19-22 Sep 2015. Tehran, Iran. Teacher: Dr Esmail Ebrahimie

Workshop on bioinformatics and analysis of NGS data. Royan Institute. 6-11 Oct 2015. Tehran, Iran. Teacher: Dr Esmail Ebrahimie

7: Membership of Society

The membership of international society for stem cell research (ISSCR). WWW.ISSCR.Org (2009 and 2012).

8: Research Experiences

- Mouse and Human Preimplantation Embryology
- Mouse and Human Embryonic and induced pluripotent Stem Cells: Biology, Establishment and Maintenance.

9: Honors

- 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 Precongress 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 Precongress 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

10: 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.

11. Executive Activities

- 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.
- Production Manager of Royan Institute ATMP center

12: Presentation

No	Title	Author	Location	Pres.	Date
1.	Induction of human naive pluripotency by a novel chemical approach	Seyedeh Nafiseh Hassani,	2nd International Stem cells and regenerative congress	Oral presentation	Apr. 2017
2.	Inhibition of TGF- β signaling sustains embryonic stem cell self-renewal	Seyedeh Nafiseh Hassani,	2nd International & 14th Iranian Genetics Congress	Oral presentation	May 2016
3.	Suppression of Transforming Growth Factor β Signaling Promotes Ground State Pluripotency from Single Blastomeres	Seyedeh Nafiseh Hassani,	1th ISERB International Congress, Tehran, Iran	Oral presentation	May 2015
4.	The Augmented BMP Pluripotency Pathway via TGF- β Suppression Maintains the Ground State of Embryonic Stem Cells Self-Renewal	Seyedeh Nafiseh Hassani,	15 th Royan International Research Award, Royan Institute, Tehran, Iran	Oral presentation	Aug 2014
5.	Efficient Generation of Human	Dr Hossein Baharvand, Adeleh	12th	Oral	May 2013

No	Title	Author	Location	Pres.	Date
	Embryonic Stem Cells from Single Blastomeres of poor-quality cleavage embryos	Taei, Seyedeh Nafiseh Hassani , Dr Poopak Eftekhari Yazdi, Dr M. Nokhbatolfoghahaei, Dr H. Gourabi	International conference of preimplantation genetic diagnosis	presentation	
6.	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
7.	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
8.	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
9.	Inhibition of TGF- β signaling could substitute the inhibition of multifunctional GSK3 in naïve mouse embryonic stem cells	Seyedeh Nafiseh Hassani , Mehdi Totonchi, Sepideh Mollamohamadi, Azam Samadian, Mohamad Pakzad, Hossein Baharvand, Hamid Gourabi	10th ISSCR Annual Meeting, Yokohama, Japan	Poster	June 13-16, 2012

No	Title	Author	Location	Pres.	Date
10.	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
11.	Pluripotent Stem Cells	Seyedeh Nafiseh Hassani ,	The 3rd Royan International Summer School, Royan Institute, Tehran, Iran	Oral presentation	14 Jul 2012
12.	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
13.	Pluripotent Stem Cells	Seyedeh Nafiseh Hassani	The 2nd Royan International Summer School	Oral presentation	17 Jul 2011
14.	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
15.	The Application of Stem Cells in Embryology		1th Symposium of Embryology, Royan Institute, Tehran, Iran	Oral presentation	24 Feb 2011
16.	From Stem Cells to Germ Cells	Seyedeh Nafiseh Hassani	The 1nd Royan International Summer School	Oral presentation	12 Jul 2010
17.	Embryonic Pluripotent Stem Cell Lines and the Importance of Extrinsic Regulation	Seyedeh Nafiseh Hassani	2th of Royan Stem Cells Precongress,. Royan Institute,	Oral presentation	13 Sep 2010

No	Title	Author	Location	Pres.	Date
			Tehran, Iran		
18.	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	July 8- 11, 2009
19.	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
20.	Leishmania major heat shock protein 70 and sera reactivity of cutaneous and visceral Leishmaniasis individuals	Nafiseh Hassani , Elham Gholami, Fatemeh Ghaemimanesh, Yasaman Taslimi, Sima Rafati	8th Iranian congress of immunology and allergy	Poster	May 14- 16, 2006- Tehran, Iran
21.	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 Ghaemimanesh, Sima Rafati	8th Iranian congress of immunology and allergy	Poster	May 14- 16, 2006- Tehran, Iran

15: Publication

1. 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].
2. 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]

3. 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].
4. Mehdi Totonchi1, **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.
5. **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). <https://doi.org/10.1007/s12308-017-0306-y>
6. Sara Taleahmad, Mirzaei M, Azam Samadia, **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.
7. Maryam Farzaneh, **Seyedeh-Nafiseh Hassani**, Paul Mozdzia, 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.
8. 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>
9. Hendudari F, Piryaei 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.
10. 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

11. 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
12. **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;28(8): 1739-48.
13. 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.
14. **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.
15. **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. Araúzo-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.
16. 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.
17. 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.
18. 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.

19. Azadeh Zahabi, Ebrahim Shahbazi, Hamideh Ahmadi, **Sevedeh-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]
20. **Sevedeh-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.
21. Mehran Rezaei Larijani, Ali Seifinejad, Behshad Pournasr, Vahid Hajihoseini, **Sevedeh-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.
22. 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.
23. 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.
24. 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.
25. Sima Rafati, **Nafiseh Hassani**, Yasaman Taslimi, Hesam Movassagh, Annie Rochette, and Barbara Papadopoulou. *AmastinPeptide-Binding Antibodies as Biomarkers of Active Human Visceral Leishmaniasis*. Clinical and Vaccine Immunology. 2006; 13:1104–1110.

Research Articles in Persian:

۱. بررسی ترمیم و مطالعه کاربوتایپ در پلاناریای گونه *Schmidtea mediterranea*. آتوسا فلاحی، مانا احمد راجی، نجمه سادات مسعودی، مهناز آذرینیا، سیده نفیسه حسنی. فصلنامه زیست شناسی تکوینی. سال هشتم، شماره ۱، زمستان ۱۳۹۴. صفحات: ۱۱-۱.
۲. 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: ۹۳-۱۱۰.
۳. بهبود تولید رده‌های سلولی پرتوان هاپلوئید از جنین‌های پارتنوژنتیک موش به واسطه مهار همزمان مسیرهای پیام‌رسانی Mek و $TGF\beta$. سیده ملامحمدی، عبدالحسین شیروی، سیده نفیسه حسنی، حسین بهاروند. پذیرش چاپ تابستان ۱۳۹۴ - مجله سلول و بافت اراک. در حال چاپ.
۴. 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. پذیرش چاپ تابستان ۱۳۹۴ - مجله سلول و بافت اراک. در حال چاپ.

16: Referees

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