

CV

First name: Sharif

Surname: Moradi

Affiliation: Department of Stem Cells & Developmental Biology, Royan Institute for Stem Cell Biology & Technology, Tehran, Iran

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PERSONAL INFORMATION

Name: Sharif Moradi

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EMPLOYMENT

- Assistant professor, Royan Institute for Stem Cell Biology & Technology (2018-now)
- Stem cell & cancer researcher at Royan Institute for Stem Cell Biology and Technology (2010-2017)

EDUCATIONAL BACKGROUND

(2010-2017)

PhD Student in Developmental Biology, Royan Institute for Stem Cell Biology and Technology (joint program with University of Science and Culture), Tehran, Iran

(2008-2010)

M.Sc. Degree of Science in Cell and Molecular Biology, School of Biology, University College of Science, University of Tehran, Tehran, Iran

(2004-2008)

Bachelor of Science in Plant Biology, Department of Biology, Faculty of Science, Tarbiat-Moallem University of Tehran, Karaj, Iran

TEACHING EXPERIENCES

- Teacher of Molecular Genetics course for MSc students of Developmental Biology at Royan Institute, Tehran, Iran, 1 semester (Sep. 2020-Jan. 2021)
- Teacher of Molecular Biology course for MSc students of Developmental Biology at Royan Institute, Tehran, Iran, 1 semester (Sep. 2019-Jan. 2020)
- Teacher of Stem Cells course for PhD students of Reproductive Biomedicine at Royan Institute, Tehran, Iran, 1 semester (Sep. 2018-Jan. 2019)
- Teacher of Stem Cells course for PhD students of Applied Cell Science at Royan Institute, Tehran, Iran, 1 semester (Sep. 2018-Jan. 2019)
- Teacher of Cellular Signaling course for PhD students of Bioengineering at Royan Institute, Tehran, Iran, 1 semester (Sep. 2018-Jan. 2019)
- Teacher of Molecular Biology course for MSc students of Developmental Biology at Royan Institute, Tehran, Iran, 1 semester (Sep. 2018-Jan. 2019)
- Teacher of Molecular Biology course for MSc students of Developmental Biology at Royan Institute, Tehran, Iran, 1 semester (Sep. 2017-Jan. 2018)
- Teacher of "Biology of induced pluripotent stem (iPS) cells" course for PhD students at Royan Institute, Tehran, Iran, 1 session (2017)
- Teacher of "The epigenetics of pluripotency" course for Biotechnology MSc students at Royan Institute, Tehran, Iran, 1 session (2017)
- Teacher of "Biology of induced pluripotent stem (iPS) cells" course for Biotechnology MSc students at Royan Institute, Tehran, Iran, 1 session (2016)
- Teacher of "Ethical considerations in writing research articles" course for MSc students at Royan Institute, Tehran, Iran, 1 session (2017)
- Teacher of Molecular Biology course for MSc students of Developmental Biology at Royan Institute, Tehran, Iran, 1 semester (Sep. 2016-Jan. 2017)
- Teacher of "Biology of induced pluripotent stem (iPS) cells" course for PhD students at Royan Institute, Tehran, Iran, 1 session (2016)
- Teacher of "Ethical considerations in writing research articles" course for MSc students at Royan Institute, Tehran, Iran, 1 session (2016)

PEER REVIEW

Cell Journal (Yakhteh), 2016-now

2-year IF: 2.3

Published by Royan Institute (where I am an assistant professor)

Journal of Cellular Physiology, 2019-now

2-year IF: 3.9

Published by Wiley

Cancer Cell International, 2019-now

2-year IF: 3.9

Published by BMC (part of Springer Nature)

Stem Cell Research & Therapy, 2020-now

2-year IF: 4.6

Published by BMC (part of Springer Nature)

PeerJ, 2020-now

2-year IF: 2.3

Published by PeerJ

My verified reviews can be seen on Publons: <https://publons.com/researcher/2952243/sharif-moradi/>

I have also reviewed several proposed projects submitted to Iranian grant bodies: *NIMAD*, *Stem Cells Council of Iranian Presidency*, and *Royan Cord Blood Bank*.

THESIS MENTORSHIP

MSc students:

- Supervisor: 9 ongoing, 3 finished

- Advisor: 1 ongoing, 2 finished

PhD students:

- Supervisor: 1 ongoing
- Advisor: 2 ongoing, 1 finished

Post-doc fellows:

- Supervisor: 1 ongoing

EXECUTIVE ACTIVITIES

- Chairman and instructor of the 2nd Royan Workshop on “How to write a research article” (June 20, 2021), Royan Institute, Tehran, Iran
- Chairman and instructor of the 1st Royan Workshop on “How to write a review article” (December 03, 2020), Royan Institute, Tehran, Iran
- Chairman and instructor of the 1st Royan Workshop on “How to write a research article” (August 13, 2020), Royan Institute, Tehran, Iran
- Chairman of the 3rd Royan Workshop on “MicroRNA Expression and Functional Analysis in Stem Cells” (December 18-19, 2020), Royan Institute, Tehran, Iran
- Chairman of the 10th Royan International Summer School on “Molecular Biomedicine: from Diagnostics to Therapeutics” (July 13-17, 2019), Royan Institute, Tehran, Iran
- Chairman of the 2nd Royan Workshop on “MicroRNA Expression and Functional Analysis in Stem Cells” (July 11-12, 2018), Royan Institute, Tehran, Iran
- Chairman of the 1st Royan Workshop on “MicroRNA Expression and Functional Analysis in Stem Cells” (November 29-30, 2017), Royan Institute, Tehran, Iran
- Executive Secretary at the 1st Royan Workshop on “Generation and Maintenance of induced Pluripotent Stem (iPS) Cells” (August 21-22, 2013), Royan Institute, Tehran, Iran

WORKSHOP PRESENTATIONS

- "Writing research articles" at the 2nd Royan Workshop on “How to write a research article” (June 20, 2021), Royan Institute, Tehran, Iran
 - "Writing review articles" at the 1st Royan Workshop on “How to write a review article” (December 03, 2020), Royan Institute, Tehran, Iran
 - "Writing research articles" at the 1st Royan Workshop on “How to write a research article” (August 13, 2020), Royan Institute, Tehran, Iran
 - "Experimental Design in MicroRNA Research" at the 2nd Royan Workshop on “MicroRNA Expression and Functional Analysis in Stem Cells” (December 18-19, 2020), Royan Institute, Tehran, Iran
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- "MicroRNAs: Biology and Applications" at the 2nd Royan Workshop on "MicroRNA Expression and Functional Analysis in Stem Cells" (December 18-19, 2010), Royan Institute, Tehran, Iran
- "Experimental Design in MicroRNA Research" at the 2nd Royan Workshop on "MicroRNA Expression and Functional Analysis in Stem Cells" (July 11-12, 2018), Royan Institute, Tehran, Iran
- "MicroRNAs: Biology and Applications" at the 2nd Royan Workshop on "MicroRNA Expression and Functional Analysis in Stem Cells" (July 11-12, 2018), Royan Institute, Tehran, Iran
- "Experimental Design in MicroRNA Research" at the 1st Royan Workshop on "MicroRNA Expression and Functional Analysis in Stem Cells" (November 29-30, 2017), Royan Institute, Tehran, Iran
- "MicroRNAs: Biology and Applications" at the 1st Royan Workshop on "MicroRNA Expression and Functional Analysis in Stem Cells" (November 29-30, 2017), Royan Institute, Tehran, Iran
- "MicroRNAs in Cancer" at the workshop on "Epigenetics of cancer" (February 3-4, 2016), Royan Institute, Tehran, Iran
- "How to design primers for microRNA qRT-PCR" (April 17, 2014), Royan Institute, Tehran, Iran
- "Pluripotent Stem Cells" at the 2nd Royan Workshop on "Cultivation and Maintenance of Embryonic Stem Cells" (November 03, 2011), Royan Institute, Tehran, Iran
- "Induced Pluripotent Stem (iPS) Cells" at the 1st Royan Workshop on "Generation and Maintenance of induced Pluripotent Stem (iPS) Cells" (August 21-22, 2013), Royan Institute, Tehran, Iran
- "Induced Pluripotent Stem (iPS) Cells" at the Royan Workshop on "Generation and Maintenance of induced Pluripotent Stem (iPS) Cells" (December 16-17, 2016), Royan Institute, Tehran, Iran

CONFERENCES AND MEETINGS:

Poster:

1. Torabi P, Miri SR, Moradi S*. **The small molecule enoxacin suppresses the growth and invasiveness of esophageal cancer cells.** 15th Royan International Congress on Stem Cell Biology and Technology, September 02-04, 2020, Tehran, Iran
2. Taei A, Samadian A, MollaMohammadi S, Ghezel Ayagh Z, Kiani T, Moradi S, Hassani SN, Baharvand H. **Long-term p38 MAPK inhibition endows endoderm propensity to human embryonic stem cells.** 15th Royan International Congress on Stem Cell Biology and Technology, August 28-30, 2019, Tehran, Iran
3. Bagheri R, Pakzad M, Baharvand H, Braun T, Moradi S*. **Elimination of tumorigenic pluripotent stem cells by a small-molecule antibiotic.** 15th Royan International Congress on Stem Cell Biology and Technology, August 28-30, 2019, Tehran, Iran

* Corresponding author

4. Soori S, Khoddami V, Braun T, Baharvand H, Moradi S*. **MicroRNAs associated with ground state pluripotency inhibit differentiation**. 15th Royan International Congress on Stem Cell Biology and Technology, August 28-30, 2019, Tehran, Iran

* Corresponding author

5. Moradi S, Mollamohammadi S, *et al.* **MicroRNAs associated with ground state pluripotency inhibit differentiation**. 12th Royan International Congress on Stem Cell Biology and Technology, September 2-4, 2016, Tehran, Iran
6. Kiani T, Taghizadeh Z, Moradi S *et al.* **Induction of naïve pluripotency in human pluripotent stem cells using small molecules**. 10th Royan International Congress on Stem Cell Biology and Technology, August 31-September 2, 2014, Tehran, Iran
7. Moradi S, Paylakhi SH, Yazdani S, Rezaei-Kanavi M, Elahi E. **Novel PITX2 isoform observed in trabecular meshwork cells**. *19th Congress of Iranian Society of Ophthalmology*, 2009. Iran University of Medical Sciences, Tehran, Iran
8. Paylakhi SH, Yazdani S, Rezaei-Kanavi M, Soheili S, Heidari E, Moradi S, Elahi E. **Establishment of Human trabecular meshwork (TM) Cultures**. *19th Congress of Iranian Society of Ophthalmology*, 2009. Iran University of Medical Sciences, Tehran, Iran

Oral presentations:

1. "**Ground-state microRNAs promote pluripotency by inhibiting differentiation**" at 2nd Royan Scientific Contest, Royan Institute, Tehran, Iran, Jan. 13, 2017
2. "**MicroRNAs: Biology and Applications**" at the 7th International Royan Summer School on "Interdisciplinary Sciences and Tomorrow's Medicine", Royan Institute, Tehran, Iran, July 23-28, 2016
3. "**Pluripotent Stem Cells**" at the 3rd Royan International Summer School on "Stem Cells and Developmental Biology for Regenerative Medicine", Royan Institute, Tehran, Iran, July 14-19, 2012

Oral presentations (invited speaker):

1. **Killing several birds with one stone: normomiRs against multiple tumor types**. 6th National Symposium on Genetics & Stem Cells Focusing on Gene Therapy, May 19-20, 2021, Tehran, Iran
 2. **Pan-cancer analysis of microRNA expression profiles highlights microRNAs enriched in normal body cells as effective suppressors of multiple tumor types**. 9th International and 21th Biology Congress, February 16-19, 2021, Semnan, Iran
 3. **MicroRNAs enriched in normal body cells can be exploited against multiple types of cancer cells**. 4th International and 16th Iranian Genetics Congress, September 30-October 02, 2020, Tehran, Iran
 4. **Elimination of tumorigenic pluripotent stem cells by a small-molecule antibiotic**. 15th Royan International Congress on Stem Cell Biology and Technology, August 28-30, 2019, Tehran, Iran
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5. **"MicroRNAs in Gene Regulatory Circuitry of Ground-State Pluripotency"** at 3rd international and 15th Iranian Genetics congress, Iran International Conference Center, May 13-15, 2018, Tehran, Iran
6. **"Different Types of Stem Cells"** at 3rd national symposium on Stem Cells & Regenerative Medicine in Ophthalmology, Shahid Beheshti University of Medical Sciences, Feb. 22, 2018, Tehran, Iran
7. **"Small-RNA sequencing highlights major microRNAs promoting ground state pluripotency"** at 3rd national conference on new biological sciences and technologies, Malayer University, May 11, 2017, Hamedan, Iran
8. **"Induced Pluripotent Stem (iPS) Cells"** at 2nd national symposium on Stem Cells & Regenerative Medicine in Ophthalmology, Shahid Beheshti University of Medical Sciences, Jan. 12, 2017, Tehran, Iran
9. **"Induced Pluripotent Stem (iPS) Cells: concepts and applications"** at 1st Stem Cell Applications seminar, Al-Zahra University, Nov. 14, 2016, Tehran, Iran

TRAINING

- Academic Leadership, 16 Weeks, Royan Institute (2021)
- Scientific Writing, Communication Skills and Scientific Integrity, 16 Weeks, Royan Institute (2010-2011)
- Basics of Bioinformatics (R and Internet Software for data mining in Biology), 1 Semester, Royan Institute (2013-2014)
- Principles of Gene Cloning and Recombinant DNA Technology, Royan Institute (2012-2013)

HONORS AND AWARDS

1. Selection of our article entitled "PI3K signalling in chronic obstructive pulmonary disease and opportunities for therapy" by Editor-in-Chief of *Journal of Pathology* as Editor's Choice and for the journal cover, July 07, 2021
 2. 4th rank of the top biology ideas competition at the 1st Young Scientists and Thinkers Festival, University of Tehran, Tehran, Iran, November 29, 2017
 3. Winner of the best scientific lecture, Royan Scientific Contest, Royan Institute, Tehran, Iran, 2016
 4. Winner of the best poster, Royan Twin Congress on Stem Cells and Reproductive Biomedicine, Tehran, Iran, 2015
 5. One-year research scholarship at the Max-Planck Institute for Heart and Lung Research, Bad Nauheim (Studying microRNA profiling and functional analyses in pluripotent stem cells), Sep. 2014-Aug. 2015
 6. Winner of the University of Science and Culture's Award for the Best Scientific Articles, 2014
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7. Winner of the National Student Award for the translation of a Biology book (Solomon's Biology) into Persian at the 15th Annual National Book Festival, Tarbiat-Modares University, 2008

PUBLICATIONS

Articles

Articles in international peer-reviewed journals:

1. Bagheri R, Yazdani Movahed A, Guenther S, Pakzad M, Samadian A, Azimzadeh Jamalkandi S, Baharvand H, Braun T, Moradi S*. **Inhibition of residual undifferentiated pluripotent stem cells by a small molecule to prevent tumor formation by stem cells.** *PNAS*, 2021. Manuscript in preparation.
* **Corresponding author**
2. Moradi S, Kamal A, Farhadi F, *et al.*, **Pan-cancer analysis of microRNA expression profiles reveals microRNAs enriched in normal body cells, but lost in cancer cells, as effective inhibitors of multiple tumour types.** *BMC Cancer*, 2021. Under Review.
3. Bereimipour A, Najafi H, Mirsane ES, Moradi S*, Satarian L*. **Roles of miR-204 in Retinal Development and Maintenance.** *Experimental Cell Research*, 2021
* **Co-corresponding authors**
4. Moradi S, Jarrahi E, Ahmadi A, Salimian J, Karimi M, Zarei A, Azimzadeh Jamalkandi S, Ghanei M. **PI3K signalling in chronic obstructive pulmonary disease and opportunities for therapy.** *The Journal of Pathology*. 2021.
5. Ahmadi A, Moradi S*. **In silico analysis suggests the RNAi-enhancing antibiotic enoxacin as a potential inhibitor of SARS-CoV-2 infection.** *Scientific Reports*. 2021
* **Corresponding author**
6. Radmanesh F, Abandansari HS, Ghanian MH, Pahlavan S, Varzideh F, Yakhkeshi S, Alikhani M, Moradi S, Braun T, Baharvand H. **Hydrogel-mediated delivery of microRNA-92a inhibitor polyplex nanoparticles induces localized angiogenesis.** *Angiogenesis*. 2021.
7. Mohammadi P, Nilforoushzadeh MA, Youssef KK, Sharifi-Zarchi A, Moradi S, Khosravani P, Aghdami R, Taheri P, Hosseini Salekdeh G, Baharvand H, Aghdami N. **Defining microRNA signatures of hair follicular stem and progenitor cells in healthy and androgenic alopecia patients.** *Journal of Dermatological Sciences*, 2021
8. Fard EM[§], Moradi S[§], Salekdeh NN, Bakhshi B, Ghaffari MR, Zeinalabedini M, Hosseini Salekdeh G. **Plant isomiRs: origins, biogenesis, and biological functions.** *Genomics*, 2020.
[§] **co-first authors**

9. Taei A[§], Tahereh K[§], Taghizadeh Z[§], Moradi S*, *et al.*, **Temporal activation of LRH-1 and RAR- γ in human pluripotent stem cells induces a functional naïve-like state.** *EMBO Reports*, 2020.
§ **co-first authors**
* **second author**
 10. Soleimani S, Valizadeh Arshad Z, Moradi S, Ahmadi A, Davarpanah SJ, Azimzadeh-Jamalkandi S. **Small regulatory non-coding RNAs in *Drosophila melanogaster*: biogenesis and biological functions.** *Briefings in Functional Genomics*, 2020.
 11. Taei A, Samadian A, Ghezel-Ayagh Z, Mollamohammadi S, Moradi S, *et al.*, **Suppression of p38-MAPK endows endoderm propensity to human embryonic stem cells.** *Biochemical and Biophysical Research Communications (BBRC)*, 2020.
 12. Shahriari, F, Satarian, L, Moradi S, *et al.*, **MicroRNA profiling reveals important functions of miR-125b and let-7a during human retinal pigment epithelial cell differentiation.** *Experimental Eye Research*, 2020.
 13. Moradi S*, *et al.*, **10th Royan Institute's International Summer School on "Molecular Biomedicine: from Diagnostics to Therapeutics.** *BioEssays*, 2020.
* **Corresponding author**
 14. Fawaz M, Scharifker BR, Moraes RM, Ibrahim ME, Moradi S* *et al*, **Dispatches from a world in turmoil – Iran: Homegrown science can rise above sanctions".** *Nature*, 2019.
* **Corresponding author**
 15. Moradi S*, **Publication should not be a prerequisite to obtaining a PhD.** *Nature Human Behaviour*, 2019.
* **Corresponding author**
 16. Moradi S*, Mahdizadeh H, Saric T, Kim J, *et al.*, **Research and therapy with induced pluripotent stem cells (iPSCs): social, legal, and ethical considerations.** *Stem Cell Res Ther*, 2019.
* **Corresponding author**
 17. Hassani SN*, Moradi S*, Taleahmad S, Braun T, and Baharvand H. **Transition of inner cells mass to embryonic stem cells: facts, mechanisms, and hypotheses.** *Cell Mol Life Sci*, 2019.
* **co-first authors**
 18. Moradi S, Braun T, Baharvand H. **miR-302b-3p promotes self-renewal properites in LIF-withdrawn embryonic stem cells.** *Cell J (Yakhteh)*, 2018. 20 (1), 61-72
 19. Khosravi Z, Nasiri Khalili MA, Moradi S, Hassansajedi R, Zeinoddini M. **The molecular chaperone Artemin blocks fibrillaztion of TAU proteins *in vitro*.** *Cell J (Yakhteh)*, 2018. 19 (4), 569-577
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20. Moradi S, Sharifi-Zarchi A, Mollamohammadi S, *et al.* **Small RNA sequencing reveals *Dlk1-Dio3* locus-embedded microRNAs as major drivers of ground state pluripotency.** *Stem Cell Rep*, 2017. 9 (6), 1–16
21. Shahbazi E, Moradi S, Nemati S *et al.* **Conversion of Human Fibroblasts to Stably Self-Renewing Neural Stem Cells with a Single Zinc-Finger Transcription Factor.** *Stem Cell Rep*, 2016. 6 (4), 539-551
22. Moradi S, Asgari S, Baharvand H. **Harmonies Played by MicroRNAs in Cell Fate Reprogramming.** *Stem Cells*, 2014. 32 (1), 3-15
23. Hassani SN, Totonchi M, Sharifi-Zarchi A, Mollamohammadi S, Pakzad M, Moradi S, Samadian A, Masoudi N, Mirshahvaladi S, Farrokhi A *et al.* **Inhibition of TGF- β Signaling Promotes Ground State Pluripotency.** *Stem Cell Rev Rep*, 2014. 10 (1), 16-30

Articles in national peer-reviewed journals:

1. Shariari, F, Moradi S, Totonchi M, Satarian, L, *et al.*, **Constructing microRNA-mRNA integrative network of miR-204-5p and miR-211-5p in RPE cells going through EMT.** *Modares J Biotechnol*, 2019. [Persian, with English abstract]
2. Moradi S and Baharvand H. **Induced Pluripotent Stem Cells, from Generation to Application: review article.** *Tehran Univ Med J*, 2014. 72 (8): 497-507 [Persian, with English abstract]

Books:

1. Chapter in Book [Persian]

- a. Moradi S. **Ethical Considerations in writing research articles**; Book title: How to write a research article. House of Biology Press, 2013
- b. Moradi S. **Induced Pluripotent Stem (iPS) Cells**; Book title: Pluripotent Stem Cells. House of Biology Press, 2019

2. Book translation from English into Persian

- a. **Solomon's Biology**, Authors: Solomon *et al.* Translators: Moradi S, Pooyan M, Mirhabibi B, *et al.* House of Biology Press, 2010
- b. **Molecular Biology of the Cell**, Authors: Alberts B. *et al.* Translator: Moradi S. House of Biology Press, In Press
- c. **Levin's Essential Genes**, Translators: Moradi S, Pooyan P, *et al.* House of Biology Press, In Press
- d. **Inside the Cells**, Translators: Moradi S and Khosravi Z. Royan Institute Press, In Press
- e. **New Genetics**, Translators: Moradi S and Khosravi Z. Royan Institute Press, In Press

3. Book editorship

- a. **Solomon's Biology**, Authors: Solomon *et al.* Editors: Moradi S, Pooyan M, *et al.* House of Biology Press, 2010
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RESEARCH INTERESTS

- Developing diagnostic tools (particularly based on circulating proteins & nucleic acids) for early cancer detection
- Developing therapeutic strategies against cancer through understanding underlying molecular mechanisms
- MicroRNA function in cancer
- MicroRNA biology in pluripotent stem cells
- Targeting the tumorigenic potential of pluripotent stem cells

HOBBIES

Scientific blogging

Martial arts (Ninjutsu)

Football

SCIENTIFIC BLOGGING

1. Owner and blogger of a Persian scientific website entitled "Stem Cells & Cancer" (Address: www.pluricancer.ir) – At the moment, the website has a technical problem and cannot be visited.
2. Owner and administrator of a Persian scientific channel in Telegram, Instagram, and other Messaging Apps entitled "Stem Cells & Cancer" (Address: www.telegram.me/pluricancer)
2. Owner and administrator of a Persian scientific channel in Telegram, Instagram, and other Messaging Apps entitled "RNA Biology" (Address: www.telegram.me/RNA_Biology)
4. Active science blogger in English on Twitter: <https://twitter.com/SharifMoradi1?s=09>

Twitter ID: @SharifMoradi1

REFEREES

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