

Sadegh Babashah, Ph.D.

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Personal information

Name: **Sadegh Babashah**

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Academic appointments

- 2022 – present** **Associate Professor** – Department of Molecular Genetics, Tarbiat Modares University, Iran
- 2014 – 2022** **Assistant Professor** – Department of Molecular Genetics, Tarbiat Modares University, Iran
- 2019 – 2022** **Executive and research deputy dean** – Research and Development Center of Biotechnology (RDCB), Tarbiat Modares University, Iran

Educations

- 2009-2013** **Ph.D., Molecular Genetics,**
Tarbiat Modares University, Tehran, Iran
- 2001-2006** **B.Sc., Marine Biology**
University of Guilan, Guilan, Iran
16.15/ 20 GPA tantamount to 3.23/4

Honors

- Distinguished Researcher of Tarbiat Modares University (2022)
- The country's leading young researcher in the field of Biology, Abu-Reihan Award, Academy of Sciences of Iran (2021)
- The international prize winner of the 15th Khwarizmi International Youth Award, Tehran, Iran (2013)

Grants

- Investigating the effects of exosomes derived from human bone marrow mesenchymal stem cells on paracrine regulation of tumor microenvironment in invasive breast cancer cells. The Council for Development of Stem Cell Sciences and Technologies, Iran (2018) (Grant No. 11/77227)

- Investigating the regulatory roles of exosomes derived from mesenchymal stem cells in modulating activation of MAPK pathways in breast and ovarian cancer cells. The Council for Development of Stem Cell Sciences and Technologies, Iran (2018) (Grant No. 11/76089)
- Investigating the regulatory correlation between miR-324-5p and Hedgehog signaling pathway in terms of inducing apoptosis in CD34+chronic myeloid leukemia stem/progenitor cells. The Council for Development of Stem Cell Sciences and Technologies, Iran (2018) (Grant No. 11/77230)
- The effects of exosomes derived from epithelial ovarian carcinoma on *in vitro* angiogenesis of endothelial cells through regulation of JAK/STAT signaling pathway. Iran National Science Foundation (INSF), Iran (2020) (Grant No. 96008647).
- Developing field diagnostic kit based on LAMP technique for Covid-19. National Institute of Genetic Engineering and Biotechnology, Iran (2020) (Grant No. 99/264)

Teaching

- Molecular Genetics course for MSc students
- Immunogenetics course for MSc students
- Genetics engineering course for MSc students
- Bioinformatics for MSc students
- Practical cell culture for MSc students
- Special topics in Genetics course for PhD students
- Cellular and molecular biology course for PhD students

Research Interests

- Studying the contribution of tumor microenvironment components to cancer progression
- Investigating the role of regulatory RNAs in cancer biology and characterizing the significance of extracellular RNAs in the tumor microenvironment
- Understanding the functional roles of exosomes in regulating tumorigenesis and progression via multiple approaches in the tumor microenvironment
- Investigating the ability of non-coding RNAs as diagnostic and prognostic biomarkers
- Developing novel cancer stem cell-directed treatments, which will reduce therapy resistance, relapse and the toxicity associated with current, non-selective agents

Conference presentations

- More than 60 abstracts and 20 oral presentations in national and international conferences

Publications

[Google Scholar](#)

- Ghazimoradi MH, Karimpour-Fard N, **Babashah S***. The Promising Role of Non-Coding RNAs as Biomarkers and Therapeutic Targets for Leukemia. *Genes (Basel)*. 2023 Jan 3;14(1):131. doi: 10.3390/genes14010131.
- Gheytauchi E, Tajik F, Razmi M, **Babashah S**, Cho WCS, Tanha K, Sahlolbei M, Ghods R, Madjd Z. Circulating exosomal microRNAs as potential prognostic biomarkers in gastrointestinal cancers: a systematic review and meta-analysis. *Cancer Cell Int*. 2023 Jan 20;23(1):10. doi: 10.1186/s12935-023-02851-8.
- Yousefi H, Bahramy A, Zafari N, Rostamian Delavar M, Nguyen K, Haghi A, Kandelouei T, Vittori C, Jazireian P, Maleki S, Imani D, Moshksar A, Bitaraf A, **Babashah S***. Notch signaling pathway: a comprehensive prognostic and gene expression profile analysis in breast cancer. *BMC Cancer*. 2022 Dec 7;22(1):1282. doi: 10.1186/s12885-022-10383-z.
- Pakravan K, Mossahebi-Mohammadi M, Ghazimoradi MH, Cho WC, Sadeghizadeh M, **Babashah S***. Monocytes educated by cancer-associated fibroblasts secrete exosomal miR-181a to activate AKT signaling in breast cancer cells. *J Translational Medicine*. 2022 (Epub Ahead of print)
- Ghazimoradi MH, **Babashah S***. The role of CircRNA/miRNA/mRNA axis in breast cancer drug resistance. *Front Oncol*. 2022 Sep 5; 12:966083. doi: 10.3389/fonc.2022.966083.
- Almouh M, Razmara E, Bitaraf A, Ghazimoradi MH, Hassan ZM, **Babashah S***. Circular RNAs play roles in regulatory networks of cell signaling pathways in human cancers. *Life Sci*. 2022 Nov 15; 309:120975. doi: 10.1016/j.lfs.2022.120975.
- Ghazimoradi MH, Khalafizadeh A, **Babashah S***. A critical review on induced totipotent stem cells: Types and methods. *Stem Cell Res*. 2022 Aug; 63:102857. doi: 10.1016/j.scr.2022.102857.
- Mirzaee Godarzee M, Mahmud Hussen B, Razmara E, Hakak-Zargar B, Mohajerani F, Dabiri H, Fatih Rasul M, Ghazimoradi MH, **Babashah S***, Sadeghizadeh M. Strategies to overcome the side effects of chimeric antigen receptor T cell therapy. *Ann N Y Acad Sci*. 2022 Apr;1510(1):18-35. doi: 10.1111/nyas.14724.
- Khashkhashi Moghadam S, Bakhshinejad B, Khalafizadeh A, Mahmud Hussen B, **Babashah S***. Non-coding RNA-associated competitive endogenous RNA regulatory networks: Novel diagnostic and therapeutic opportunities for hepatocellular carcinoma. *J Cell Mol Med*. 2022 Jan;26(2):287-305. doi: 10.1111/jcmm.17126.
- Pakravan K, Razmara E, Mahmud Hussen B, Sattarikia F, Sadeghizadeh M, **Babashah S***. SMAD4 contributes to chondrocyte and osteocyte development. 2022 Jan;26(1):1-15. doi: 10.1111/jcmm.17080.
- Mahmoudian M, Razmara E, Mahmud Hussen B, Simiyari M, Lotfizadeh N, Motaghed H, Khazraei Monfared A, Montazeri M, **Babashah S***. Identification of a six-microRNA signature as a potential diagnostic biomarker in breast cancer tissues. *J Clin Lab Anal*. 2021 Nov;35(11):e24010. doi: 10.1002/jcla.24010.
- Dokhanchi M, Pakravan K, Zareian S, Hussen BM, Farid M, Razmara E, Mossahebi-Mohammadi M, Cho WC, **Babashah S***. Colorectal cancer cell-derived extracellular vesicles transfer miR-221-3p to promote

endothelial cell angiogenesis via targeting suppressor of cytokine signaling 3. *Life Sci.* 2021 Nov 15; 285:119937. doi: 10.1016/j.lfs.2021.119937.

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- Rasti A, Madjd Z, Saeednejad Zanjani L, **Babashah S**, Abolhasani M, Asgari M, Mehrazma M. SMAD4 Expression in Renal Cell Carcinomas Correlates With a Stem-Cell Phenotype and Poor Clinical Outcomes. *Front Oncol.* 2021 May 3;11:581172. doi: 10.3389/fonc.2021.581172.
- Youssefian L, Saeidian AH, Palizban F, Bagherieh A, Abdollahimajd F, Sotoudeh S, Mozafari N, Farahani RA, Mahmoudi H, **Babashah S**, Zabihi M, Zeinali S, Fortina P, Salas-Alanis JC, South AP, Vahidnezhad H, Uitto J. Whole-Transcriptome Analysis by RNA Sequencing for Genetic Diagnosis of Mendelian Skin Disorders in the Context of Consanguinity. *Clin Chem.* 2021 Jun 1;67(6):876-888. doi: 10.1093/clinchem/hvab042.
- Mahdloo T, Sahami P, Ramezani R, Jafarina M, Goudarzi H, **Babashah S***. Up-regulation of miR-155 potentiates CD34+ CML stem/progenitor cells to escape from the growth-inhibitory effects of TGF- β 1 and BMP signaling. *EXCLI J.* 2021 Apr 15;20:748-763. doi: 10.17179/excli2021-3404.
- Rahnama S, Bakhshinejad B, Farzam F, Bitaraf A, Ghazimoradi MH, **Babashah S***. Identification of dysregulated competing endogenous RNA networks in glioblastoma: A way toward improved therapeutic opportunities. *Life Sci.* 2021 Jul 15;277:119488. doi: 10.1016/j.lfs.2021.119488.
- Motavaf M, Sadeghizadeh M, **Babashah S**, Zare L, Javan M. Protective Effects of a Nano-Formulation of Curcumin against Cuprizone-Induced Demyelination in the Mouse Corpus Callosum. *Iran J Pharm Res.* 2020 Summer;19(3):310-320. doi: 10.22037/ijpr.2020.112952.14033.
- Bitaraf A, Razmara E, Bakhshinejad B, Yousefi H, Vatanmakanian M, Garshasbi M, Cho WC, **Babashah S***. The oncogenic and tumor suppressive roles of RNA-binding proteins in human cancers. *Journal of Cellular Physiology.* 2021 Sep;236(9):6200-6224. doi: 10.1002/jcp.30311.
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- Tahmouresi F, Razmara E, Pakravan K, Mossahebi-Mohammadi M, Rouhollah F, Montazeri M, Sarrafzadeh A, Fahimi H, **Babashah S***. Upregulation of the long noncoding RNAs DSCAM-AS1 and MANCR is a potential diagnostic marker for breast carcinoma. *Biotechnol Appl Biochem.* 2021 Dec;68(6):1250-1256. doi: 10.1002/bab.2048.
- Mahgoub EO, Razmara E, Bitaraf A, Norouzi FS, Montazeri M, Behzadi-Andouhjerdi R, Falahati M, Cheng K, Haik Y, Hasan A, **Babashah S***. Advances of exosome isolation techniques in lung cancer. *Mol Biol Rep.* 2020 Sep;47(9):7229-7251. doi: 10.1007/s11033-020-05715-w.
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- Bitaraf A, **Babashah S***, Garshasbi M. Aberrant expression of a five-microRNA signature in breast carcinoma as a promising biomarker for diagnosis. *J Clin Lab Anal*. 2020 Feb;34(2):e23063. doi: 10.1002/jcla.23063.
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- Moradi F, **Babashah S***, Sadeghizadeh M, Jalili A, Hajifathali A, Roshandel H. Signaling pathways involved in chronic myeloid leukemia pathogenesis: The importance of targeting Musashi2-Numb signaling to eradicate leukemia stem cells. *Iran J Basic Med Sci*. 2019 Jun;22(6):581-589. doi: 10.22038/ijbms.2019.31879.7666.
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- Farzi-Molan A, **Babashah S***, Atashi A. Down-regulation of the non-coding RNA H19 and its derived miR-675 is concomitant with up-regulation of insulin-like growth factor receptor type 1 during neural-like differentiation of human bone marrow mesenchymal stem cells. *Cell Biol Int*. 2018 Aug;42(8):940-948. doi: 10.1002/cbin.10960.
- Nazem S, Rabiee F, Ghaedi K, **Babashah S**, Sadeghizadeh M, Nasr-Esfahani MH. Fndc5 Knockdown Induced Suppression of Mitochondrial Integrity And Significantly Decreased Cardiac Differentiation of Mouse Embryonic Stem Cells. *J Cell Biochem*. 2018 Jun;119(6):4528-4539. doi: 10.1002/jcb.26590.

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- Mahjoub MA, Bakhshinejad B, Sadeghizadeh M, **Babashah S***. Combination treatment with dendrosomal nanocurcumin and doxorubicin improves anticancer effects on breast cancer cells through modulating CXCR4/NF- κ B/Smo regulatory network. *Mol Biol Rep*. 2017; 44:341-351. doi: 10.1007/s11033-017-4115-2.
- Pakravan K, **Babashah S***, Sadeghizadeh M, Mowla SJ, Mossahebi-Mohammadi M, Ataei F, Dana N, Javan M. MicroRNA-100 shuttled by mesenchymal stem cell-derived exosomes suppresses in vitro angiogenesis through modulating the mTOR/HIF-1 α /VEGF signaling axis in breast cancer cells. *Cell Oncol (Dordr)*. 2017 Oct;40(5):457-470. doi: 10.1007/s13402-017-0335-7.
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- Behbahani GD, Ghahhari NM, Javidi MA, Molan AF, Feizi N, **Babashah S***. MicroRNA-Mediated Post-Transcriptional Regulation of Epithelial to Mesenchymal Transition in Cancer. *Pathol Oncol Res*. 2017 Jan;23(1):1-12. doi: 10.1007/s12253-016-0101-6.
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Book Chapters

- Pakravan K, Mahjoub MA, **Babashah S**. Cancer Stem Cells: A Quick Walk through the Concepts (Chapter 1) S. Babashah (ed.), *Cancer Stem Cells: Emerging Concepts and Future Perspectives in Translational Oncology*, DOI 10.1007/978-3-319-21030-8_1, Springer International Publishing Switzerland 2015
https://link.springer.com/chapter/10.1007/978-3-319-21030-8_1
- **Babashah S**. MicroRNAs and Cancer: An Overview (Chapter 1) S. Babashah (ed.), *MicroRNAs: Key Regulators of Oncogenesis*, DOI 10.1007/978-3-319-03725-7_1, Springer International Publishing Switzerland 2014
http://link.springer.com/chapter/10.1007/978-3-319-03725-7_1
- Bakhshinejad B, Javidi MA, Babashah S, **Babashah S**. Nanocarriers and MicroRNA-Based Scenarios for Cancer Therapy (Chapter 16) S. Babashah (ed.), *MicroRNAs: Key Regulators of Oncogenesis*, DOI 10.1007/978-3-319-03725-7_16, Springer International Publishing Switzerland 2014
http://link.springer.com/chapter/10.1007/978-3-319-03725-7_16

Books

- Cancer Stem Cells: Emerging Concepts and Future Perspectives in Translational Oncology

Sadegh Babashah (ed.)

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- MicroRNAs: Key regulators of Oncogenesis

Sadegh Babashah (ed.)

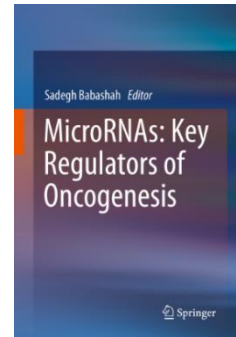
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Topic editor

Guest editor in Frontiers in Genetics Journal, Special issue named “Non-coding RNAs and cancer chemoresistance”

<https://www.frontiersin.org/research-topics/28316/non-coding-rnas-and-cancer-chemoresistance>