**CURRICULUM VITAE**

**Name:** Soudabeh Sabetian Fard Jahromi

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**Education**

* Post doc., Residency of Islamic Republic of Iran National Elites Foundation, in Pharmaceutical Sciences Research Center, Shiraz University of Medical Sciences, Shiraz, 2017-2018.
* Post doc., in Bioscience, Faculty of Bioscience and Medical Engineering, University Technology Malaysia, Johor, Malaysia, 2015-2016.
* Ph.D., in Bioscience, Faculty of Bioscience and Medical Engineering, University Technology Malaysia, Johor, Malaysia, 2010-2014.
* M.Sc. in Biology-Biochemistry, Faculty of Bioscience, Azad University, Research & Sciences Branch, Tehran, Iran, 2006-2009.
* Bachelor in Biology, Faculty of Bioscience, Isfahan University, Isfahan Branch, Isfahan, Iran, 2001-2004.

**Academic Appointment:**

Scientific Researcher

Infertility Research Center, Shiraz University of Medical Sciences, Shiraz, Iran. (full-time member since September 2019.)

**Accomplished Research**

1. Comparing the effect of hydroalcoholic extract of broccoli, broccoli in combination with genistein and diphereline on morphology of endometriosis lesions, inflammatory factors, and antioxidant marker and on expression level of inflammatory and apoptosis related genes in female rat model of endometriosis
2. Differential expressed miRNA and the target genes contributing to idiopathic azoospermia
3. Dengue Vaccine Designing by Computational Approaches.
4. Construction and Analysis of Protein-Protein Interaction Network Associated with Human Sperm-Egg Interaction.
5. A comparison study of seminal plasma biomarkers in Normospermic and Azoospermic men attending Avesina Infertility Clinic.
6. A comparison study of seminal plasma biomarkers in Normospermic with positive TESE and negative TESE.

**Skills**

SDS-PAGE, Protein Gel Electrophoresis; Two-Dimensional (2D) Gel Electrophoresis for Proteins; Application of protein-protein interaction network software such as Cytoscape and Navigator; Data mining; Molecular Dynamics Simulations with GROMACS, Bioinformatic analysis of next generation sequencing (NGS) by CLC Genomics Workbench& Linux.

**Academic Awards**

1. Session 1, 2011-2012 Awarded the International Doctoral Fellowship (IDF) from from the Universiti Teknologi Malaysia (SPS)
2. Session 2, 2012-2013 Awarded the International Doctoral Fellowship (IDF) from from the Universiti Teknologi Malaysia (SPS)
3. Session 1, 2013-2014 Awarded the International Doctoral Fellowship (IDF) from the from the Universiti Teknologi Malaysia (SPS)
4. Session 2,2013-2014 Awarded the International Doctoral Fellowship (IDF) from the U from the Universiti Teknologi Malaysia (SPS)

**Working Experiences**

1. October-December 2013 Research Assistant, faculty of Biosciences and Medical Medical Engineering, UTM, Johor Bahru, Malaysia
2. 2007-2009 Project Assistant, Avicenna Research Institute, Institute, Institute, Tehran, Iran

**Publications**

1. Sabetian, S., & Shamsir, M. S. (2019). Computer aided analysis of disease linked protein networks. *Bioinformation*, 15(7), 513.
2. Sabetian, S., Nezafat, N., Dorosti, H., Zarei, M., & Ghasemi, Y. (2019). Exploring dengue proteome to design an effective epitope-based vaccine against dengue virus. *Journal of biomolecular structure and dynamics*, 37(10), 2546-2563.
3. Sabetian, S., & Shamsir, M. S. (2017). Deficiency in Sperm–Egg Protein Interaction as a Major Cause of Fertilization Failure. *The Journal of membrane biology*, 250(2), 133-144.
4. Sabetian, S., & Shamsir, M. S. (2016). Systematic analysis of protein interaction network associated with azoospermia. *International journal of molecular sciences*, 17(11), 1857**.**
5. Sabetian, S., & Shamsir, M. S. (2015). Identification of putative drug targets for human sperm-egg interaction defect using protein network approach. *BMC systems biology*, 9(1), 1-11.
6. Sabetian, S., Shamsir, M. S., & Naser, M. A. (2014). Functional features and protein network of human sperm-egg interaction. *Systems biology in reproductive medicine*, 60(6), 329-337.
7. Sabetian, S., Shamsir, M. S., Naser, M. A. (2014). Mienda BS. Gene expression profiles of spermatozoa in teratozoospermia. *RJPBCS*. 5(6), 818-23.
8. Fard Jahromi, S. S., & Shamsir, M. S. (2013). Construction and analysis of the cell surface’s protein network for human sperm-egg interaction. *International Scholarly Research Notices*, 2013.
9. Sabetian, S., Ardekani, A. M., Hodjat, M., Akhondi, M. M., Soltanghoraee, H., Amirjannati, N., ... & Sadeghi, M. R. (2010). Comparing seminal plasma biomarkers between normospermic and azoospermic Men. *Journal of reproduction & infertility*, 11(1), 39.
10. Negahdaripour, M., Owji, H., Eslami, M., Zamani, M., Vakili, B., Sabetian, S., ... & Ghasemi, Y. (2019). Selected application of peptide molecules as pharmaceutical agents and in cosmeceuticals. *Expert opinion on biological therapy*, 19(12), 1275-1287.
11. Zarei, M., Nezafat, N., Rahbar, M. R., Negahdaripour, M., Sabetian, S., Morowvat, M. H., & Ghasemi, Y. (2019). Decreasing the immunogenicity of arginine deiminase enzyme via structure‐based computational analysis. *Journal of Biomolecular Structure and Dynamics*, 37(2), 523-536.
12. Ahmadi, M., Pashangzadeh, S., Moraghebi, M., Sabetian, S., Shekari, M., Eini, F., ... & Mousavi, P. (2021). Construction of circRNA‐miRNA‐mRNA network in the pathogenesis of recurrent implantation failure using integrated bioinformatics study. *Journal of Cellular and Molecular Medicine.*
13. Cava, C., Sabetian, S., & Castiglioni, I. (2021). Patient-Specific Network for Personalized Breast Cancer Therapy with Multi-Omics Data. *Entropy*, 23(2), 225.
14. Jahromi, B. N., Borzou, N., Parsanezhad, M. E., Anvar, Z., Ghaemmaghami, P., & Sabetian, S. (2021). Associations of insulin resistance, sex hormone-binding globulin, triglyceride, and hormonal profiles in polycystic ovary syndrome: A cross-sectional study. *International Journal of Reproductive Biomedicine*, 19(7), 653.
15. Sabetian, S., Castiglioni, I., Jahromi, B. N., Mousavi, P., & Cava, C. (2021). In Silico Identification of miRNA–lncRNA Interactions in Male Reproductive Disorder Associated with COVID-19 Infection. *Cells*, 10(6), 1480.
16. Sabetian, S., Jahromi, B. N., Vakili, S., Forouhari, S., & Alipour, S. (2021). The Effect of Oral Vitamin E on Semen Parameters and IVF Outcome: A Double-Blinded Randomized Placebo-Controlled Clinical Trial. *BioMed Research International*, 2021.
17. Sabetian, S., Zarei, M., Jahromi, B. N., Morowvat, M. H., Tabei, S. M. B., & Cava, C. (2021). Exploring the dysregulated mRNAs–miRNAs–lncRNAs interactions associated to idiopathic non-obstructive azoospermia. *Journal of Biomolecular Structure and Dynamics*, 1-9.
18. Sabetian, S., Jahromi, B. N., Vakili, S., Forouhari, S., & Alipour, S. (2021). The Effect of Oral Vitamin E on Semen Parameters and IVF Outcome: A Double-Blinded Randomized Placebo-Controlled Clinical Trial. *BioMed Research International*, 2021.
19. Jahromi, B. N., Borzou, N., Parsanezhad, M. E., Anvar, Z., Ghaemmaghami, P., & Sabetian, S. (2021). Associations of insulin resistance, sex hormone-binding globulin, triglyceride, and hormonal profiles in polycystic ovary syndrome: A cross-sectional study. International Journal of Reproductive Biomedicine, 19(7), 653.
20. Ahmadi, M., Pashangzadeh, S., Moraghebi, M., Sabetian, S., Shekari, M., Eini, F., ... & Mousavi, P. Construction of circRNA‐miRNA‐mRNA network in the pathogenesis of recurrent implantation failure using integrated bioinformatics study. *Journal of Cellular and Molecular Medicine*. 2021.
21. Sabetian, S., Zarei, M., Jahromi, B. N., Morowvat, M. H., Tabei, S. M. B., & Cava, C. Exploring the dysregulated mRNAs–miRNAs–lncRNAs interactions associated to idiopathic non-obstructive azoospermia. *Journal of Biomolecular Structure and Dynamics*, 2021: 1-9.
22. Clinical Guidelines on the Use of Assisted Reproductive Technology During Covid-19 Pandemic: A Minireview of the Current LiteratureS Sabetian, B Namavar Jahromi, F Feiz, I Castiglioni, C Cava, S Vakili Journal of Health Sciences & Surveillance System 10 (1), 13- 2022
23. Construction of circRNA‐miRNA‐mRNA network in the pathogenesis of recurrent implantation failure using integrated bioinformatics studyM Ahmadi, S Pashangzadeh, M Moraghebi, S Sabetian, M Shekari, F Eini, ...Journal of Cellular and Molecular Medicine 26 (6), 1853-1864.2022
24. Comparing four different methods for the management of ectopic pregnancy: A cross-sectional studyZ Shiravani, S Atbaei, BN Jahromi, MH Tafti, SM Alamdarloo, T Poordast, ...International Journal of Reproductive BioMedicine 20 (3), 177.2022
25. Formaldehyde 5% in flexible collodion compared to cryotherapy for treatment of female genital warts: A randomized clinical trialBN Jahromi, M Razeghi, L Dastgheib, A Fazelzadeh, A Miri, S Vakili, ...Indian Journal of Dermatology 67 (4), 478. 2022
26. Exploring the dysregulated mRNAs–miRNAs–lncRNAs interactions associated to idiopathic non-obstructive azoospermiaS Sabetian, M Zarei, BN Jahromi, MH Morowvat, SMB Tabei, C CavaJournal of Biomolecular Structure and Dynamics 40 (13), 5956-5964.2022
27. Methanol and Sorbitol Affect the Molecular Dynamics of Arginine Deiminase: Insights for Improving its StabilityM Zarei, S Sabetian, MR Rahbar, M NegahdaripourCurrent Proteomics 19 (5), 380-387.2022
28. The effect of broccoli extract and soy isoflavones on endometrial implants and oxidative parameters in female rat model of endometriosisS Sabetian, PA Dialameh, N Tanideh, B Gharesifard, M Ahmadi, …2022
29. Insilico-based identification of survival-associated lncRNAs, mRNAs and, miRNAs in breast cancerM Sadeghi, C Cava, P Mousavi, S Sabetian.2022
30. Detection of SARS-CoV-2 in Follicular Fluid of COVID-19 Infected Women.S Vakili, ME Parsanezhad, Z Mosallanezhad, S Foruhari, S Sabetian, ...Iranian Journal of Medical Sciences 48 (S1), 70-71.2022
31. Quercetin potentiates the anti-osteoporotic effects of alendronate through modulation of autophagy and apoptosis mechanisms in ovariectomy-induced bone loss rat modelS Mousavi, S Vakili, F Zal, A Savardashtaki, M Jafarinia, S Sabetian, ...Molecular Biology Reports 50 (4), 3693-3703.2023
32. Investigating the Thermostability of Mycoplasma Arginine Deiminase: a Protein Simulation ApproachM Zarei, MR Rahbar, S Sabetian, M NegahdaripourApplied Biochemistry and Microbiology 59 (3), 275-281.2023
33. The supplemental effect of Vitamin-D3 and Omega-3 on induced endometriosis rat model to investigate the inflammatory responseZ Shiravani, F Najib, M Alirahimi, E Askary, T Poordast, N Tanideh, ...Journal of Obstetrics, Gynecology and Cancer Research.2023
34. Construction of Prognostic ceRNA Network Landscape in Breast Cancer to Explore Impacting Genes on Drug Response by Integrative Bioinformatics AnalysisM Sadeghi, C Cava, P Mousavi, S Sabetian, MH MorowvatLetters in Drug Design & Discovery 20, 1-15.2023
35. Potential Effects of Soy Isoflavones and Broccoli Extract and on Oxidative Stress, Autophagy, and Apoptosis Gene Markers in EndometriosisS Sabetian, B Namavar Jahromi, S Vakili, M Samare-Najaf, S Siahbani, ...International Journal of Fertility and Sterility.2023
36. Pan-cancer classification of multi-omics data based on machine learning modelsC Cava, S Sabetian, C Salvatore, I CastiglioniNetwork Modeling Analysis in Health Informatics and Bioinformatics 13 (1), 2024

**Conferences**

Poster Presentations:S. Sabetian., Mohammad Reza Sadeghi., M. A. Akhondi., N. Amirjannati., M. Hodjat., N. Lakpour. Pt3-28 Comparing seminal plasma markers in normospermic and azoospermic men. *3APFA / Asian J Androl 2009; 11 (5 Suppl): 119.*

Oral peresentation (A comparison study of seminal plasma biomarkers in Normospermic with positive TESE and negative TESE). *8th International Congress of obstetrics & gynecology 2009.*

Poster presentation: Construction and Analysis of the Protein-Protein Interaction Network for the Spermatozoa. Soudabeh Sabetian, Mohd Shahir Shamsir, *8th International Conference on the Bioinformatics of Genome Regulation and Structure System Biology (BGRSSB)*, 2012: p. 274.

Oral presentation: Construction and Analysis of the Protein-Protein Interaction Network for the Azoospermia. Soudabeh Sabetian, Mohd Shahir Shamsir, *2th Asian Regional Conference on Systems Biology (ARCSB 2013)*.

Oral presentation: Mapping the protein interaction between the sperm and oocyte in humans. Soudabeh Sabetian, Mohd Shahir Shamsir *1st Malaysian Proteomics Conference (MPC)*, 2012: p. 35.

Oral presentation: Exploring the dysregulated mRNAs–miRNAs–lncRNAs interactions associated to idiopathic non-obstructive azoospermia. 9th Yazd International Congress & Student Award in Reproductive Medicine With 4th Reproductive Genetics Congress, 2021: p. 65

Poster presentation: Dysregulated miRNAs-lncRNAs interactions in male reproductive disorder and COVID-19 infection. 22nd Royan International Virtual Congress on Reproductive Biomedicine. 1-3 September 2021.

**Academic Activity**

Attend in workshop on ethics in the publication of research; hold on 2018.

Attend in workshop on academic collaboration and knowledge sharing between international students; hold on 2013

Attend in workshop on design and statistical analysis of experiments using open source package R; hold on 20Participate in three minutes thesis competition 2015; hold on UTM

Pass the intensive English course at intermediate level; hold on 2011

Participate in LaTex workshop; hold on 2013

Attend in workshop on how to prepare thesis & papers in latex format; hold on 2014

Participate in international conference on postgraduate education; hold on 2012

Attend in workshop on attractive & effective presentation with powerpoint and prezi; hold on 2013

Attend in workshop on research method and tools; hold on 2011

Attend in workshop on SPSS workshop; hold on 2015

Attend in workshop on introduction to advanced statistical analysis with SPSS; hold on 2014

Attend in workshop on how to defend your viva; hold on 2014

Attend in workshop on colloquium writing good technical papers; hold on 2013

**Book**

Sabetian S., Ghaem M. S., Ghavami A. Last book special Payame Noor University/ multiple questions in biology field. 2007.