

Contact Information:

Seyran Kakebaraei, Ph.D

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Educational Background:

2005-2009

B.Sc: department of Nursing Kermanshah University of Medical Sciences (KUMS)-kermanshah-Iran.

2010-2013

M.Sc: in Anatomical Sciences, Medical Faculty, Kermanshah University of Medical Sciences. (KUMS)-kermanshah-Iran.

2019- 2024

Ph.D: in Anatomical Sciences, Medical Faculty, Kermanshah University of Medical Sciences. (KUMS)-kermanshah-Iran.

M.Sc. Thesis subject:

“Investigating the effect of resveratrol on normal human endometrial epithelial cells invitro”

Ph.D. Thesis subject:

“Evaluation of the effects of crocin solid lipid nanoparticles on seizure model-induced pentylenetetrazole in male rat”

Supervisors: Prof. Cyrus Jalili

Research Skills:

Sperm analysis, Semen processing in mouse.

PCR &RNA /DNA extraction, Real time PCR

Enzyme activity

ELISA

Spectrophotometry

Cell Culture (Cell lines, Primary Culture, Stem cells)

Cell death detection (TUNEL assay, Acridin Orang / Ethidium Bromid)
MTT Assay, Nitric Oxide Assay, Migration Assay, FRAP Assay
Isolation of stromal and epithelial cells from human endometrial tissue
Histotechnique (Tissue processing, paraffin section)
Stereotaxy, shuttle box assay. Ymaze assay
Solid lipid nanoparticle assay
Drug delivery

PUBLICATIONS:

1. A Hydrophilic Polyurethane Foam Containing *Nigella sativa* Oil as aWound Dressing. BioMed Research International. 2025. doi.org/10.1155/bmri/6627611.
2. Emerging trends in viral infection inhibition using a chitosan-based drug delivery system. Journal of Drug Targeting. Aug 2025. doi.org/10.1080/1061186X.2025.2540858.
3. Oral administration of crocin-loaded solid lipid nanoparticles inhibits neuroinflammation in a rat model of epileptic seizures by activating SIRT1 expression. Research in Pharmaceutical Sciences, August 2024; 19(4): 397-414.
4. Protective effect of crocin-loaded nanoparticles in rats following epileptic seizures: Biochemical, behavioral and histopathological outcomes. Heliyon.2024. <https://doi.org/10.1016/j.heliyon.2024.e36122>.
5. De novo hyaluronic acid-based biomaterial: a promising perspective to manage neurodegenerative diseases. International Journal of Polymeric Materials and Polymeric Biomaterials.2024. DOI: 10.1080/00914037.2024.2360956.
6. Genotoxic and cytotoxic effects of aflatoxin on the reproductive system: Focus on cell cycle dynamics and apoptosis in testicular tissue. Toxicolog. 2024.DOI: <https://doi.org/10.1016/j.tox.2024.153773>.
7. The relationship between aflatoxin B1 with the induction of extrinsic/ intrinsic pathways of apoptosis and the protective role of taraxasterol in TM3 leydig cell line. Ecotoxicology and Environmental Safety.2024. <https://doi.org/10.1016/j.ecoenv.2024.116316>.
8. Brain targeting based nanocarriers loaded with resveratrol in Alzheimer's disease: A review. IET Nanobiotechnol. 2023;17(3):154-70.
9. Investigating the Era and Cyclin D1 Gene Expression Levels, Changes in SOD, NO, and MDA Levels, and Histopathology of Mice Testicular Tissue Treated with AFG1. Journal of Mazandaran University of Medical Sciences 31 (198), 1-12.2021.
10. Topical formulation of tranilast improves hypertrophic scar in a rat model. Physiology & Pharmacology 25 (3), 242-250.2021.
11. Relationship between synthesis of P21 and Cyclin D1 proteins and histomorphometric parameters of mice testicular tissue in presence of Aflatoxin G1. Koomesh 21 (1), 195-200.2019.
12. Effects of Aqueous Extract of Gunnera (Gundelia tournefortii L.) on the Blood Serum Sugar Levels and Changes in the Streptozotocin-induced Diabetic Pancreatic Tissue of Rat. International journal of preventive medicine 5 (5).2017.
13. Therapeutic Effect of Resveratrol on Morphine-Induced Damage in Male Reproductive System of Mice by Reducing Nitric Oxide Serum Level. Int. J. Morphol. 35 (4), 1342-47.2017.

14. Protective effect of crocin on liver toxicity induced by morphine. Research in Pharmaceutical Sciences 11 (2), 120-129.2016.
15. Biopharmacologic Properties of Resveratrol. J Isfahan Med Sch 32 (308), 1-17.2015.
16. Neuronal Changes in Cornu Ammonis-3 and Dentate Gyrus Area of Hippocampus in Kindled Rats After Administration Aqueous Extract of *Boswellia Serrata*. Journal of Neurological Sciences 32 (3).2015.
17. Protective Role of Crocin Against Nicotine-induced Damages on Male Mice Liver. International Journal of Preventive Medicine 6 (92).2015
18. Curcumin improves liver damage in male mice exposed to nicotine. Journal of Traditional and Complementary Medicine 6 (2), 176-183.2014.
19. A histological assessment of the cell death induced by haloperidol on prefrontal cortex. International Journal of Morphology 31 (4).2013.

Abstracts Presented Congresses:

- 1- Survey of in Vitro Effect of Resveratrol on Apoptosis of Human Endometrial Epithelial Cells. S Kakebaraei, M Khazaei, N Jalilian. International Journal of Fertility & Sterility 7, 108.2013.
- 2- Antioxidant Effects of Royal Jelly on Lead Induced Sperm DNA Damage and Sperm Abnormality in Male Mice. CJalili, Seyran Kakebaraei. International Journal of Reproductive BioMedicine 19 (1), P-16.2012.
- 3- Survey of in Vitro Effect of Resveratrol on Apoptosis of Human Endometrial Epithelial Cells. S Kakebaraei, M Khazaei, N Jalilian. International Journal of Fertility and Sterility 7 (3), 95-95.2013.
- 4- Survey of in Vitro Effect of Resveratrol on Nitric Oxide Secretion of Human Endometrial Epithelial Cells. S Kakebaraei, R Lotfikangarshahi, M Khazaei. Int J Fertil Steril 8 (2.5).2014.
- 5- inhibitory effect of noscapaine on human endometrial stromal cell: an in vitro study. S Kakebaraei, R Lotfikangarshahi, M Khazaei. Int J Fertil Steril .2014.
- 6- Effect of Genistein on Morphine-Induced Injury on Sperm Parameters. C Jalili, S Kakebaraei, MR Salahshoor. Int J Fertil Steril 8 (2.5).2014.
- 7- Effects of Resveratrol on Nicotine Toxicity of the Spermatogenesis of Rats. S Kakebaraei. Int J Fertil Steril 8 (2.5).2014.
- 8- Tamoxifen in Combination Tranilast Affects Transforming Growth Factor-[Beta] Ligands and Its Receptors in MCF-7 Cells. S Darakhshan, A Ghanbari, S Kakebaraei, BA Pour. International Journal of Reproductive BioMedicine 12 (6), 106.2014.
- 9- protective effect of thymoquinone on sperm parameters toxicity induced morphine in male mice. International Journal of Fertility and Sterility S Kakebaraei, C Jalili, MR Salahshoor.2016.
- 10- effect of petroselinum crispum extract on sperm nitric oxide level in male mice S Kakebaraei, C Jalili, MR Salahshoor.2016.
- 11- protective role of crocin against nicotine -induced on level of FSH, LH and estrogen in female mice. S Kakebaraei, C Jalili, MR Salahshoor .2016.
- 12- Antioxidant Effects of Royal Jelly on Lead Induced Sperm DNA Damage and Sperm Abnormality in Male Mice. CJalili, Seyran Kakebaraei. International Journal of Reproductive BioMedicine 19 (5), P-16.2021.

13- Neuroprotective Effect of crocin via suppression of TNF- α Against Nicotine in The Hippocampus Dentate Gyrus of Wistar Rats. C.Jalili, Seyran Kakebaraei. 9th basic and clinical Neuroscience Congress 181, P-34.2020.
