

رزومه – دکتر پوریا راعی

اطلاعات شخصی

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سمت فعلی: استادیار، گروه بیولوژی و علوم تشریح، دانشکده پزشکی، دانشگاه علوم پزشکی شهید

بهشتی، تهران، ایران

تاریخ تولد: ۱۳۷۱/۱۰/۲۱

تحصیلات: دکترای حرفه ای دامپزشکی - دکترای تخصصی بیولوژی تولیدمثل

شاخص های استناد

Platform	Total Citations	h-index	i10-index
Scopus	8,111 (by 7,837 documents)	17	N/A
Google Scholar	10105	20	26

حوزه های پژوهشی

ناباروری، بیولوژی تولیدمثل، اسپرماتوژنز، اتوفاژی، زیست شناسی تلومر، استرس اکسیداتیو، ژن درمانی، کریسپر، تحویل siRNA، سم شناسی تولیدمثل، IVF/ICSI، مدل سازی حیوانی.

2026

1. **Effects of quercetin-loaded nanoselenium on spermatogenesis in a mouse model of cyclophosphamide-induced testicular damage** – *Clinical and Experimental Reproductive Medicine* (2026 Jan 5) – [Co-author]

2025

2. **The protective effect of bromelain on testicular dysfunction and oxidative stress induced by REM sleep deprivation in adult male rats** – *Tissue and Cell*, Volume 95, 102927 (2025) – [Co-corresponding Author]
3. **The role of granulocyte-macrophage colony-stimulating factor in inducing autophagy in the spermatozoa of patients with asthenoteratozoospermia** – *Clinical and Experimental Reproductive Medicine* (2025-09) – [Co-author]
4. **Therapeutic effects of curcumin nanoemulsion on cyclophosphamide-induced testicular toxicity in adult male mice** – *Clinical and Experimental Reproductive Medicine* (2025-06) – [First Author]
5. **The effect of human Wharton's jelly stem cell-conditioned medium on spermatogenesis in azoospermic mice with scrotal hyperthermia** – *Physiology and Pharmacology*, Volume 29, Issue 2, pp. 205-218 (2025) – [Co-author]
6. **Investigating the Microbiota of Ovarian Follicular Fluid and Vaginal Secretions in Infertile Women with Polycystic Ovary Syndrome: A Prospective Cohort Study** – *Archives of Clinical Infectious Diseases*, Volume 20, Issue 6, e167638 (2025) – [Co-author]

2024

7. **Chronic Administration of Lisdexamfetamine Induces Apoptosis and Inflammation and Reduces Sperm Quality in Adult Male Rats** – *Reproductive Sciences* (2024)
8. **Global age-sex-specific mortality, life expectancy, and population estimates, 1950–2021** – *The Lancet* (2024)
9. **Global fertility in 204 countries and territories, 1950–2021, with forecasts to 2100** – *The Lancet* (2024)
10. **Global, regional, and national burden of disorders affecting the nervous system, 1990–2021** – *The Lancet Neurology* (2024)
11. **Global, regional, and national incidence and mortality burden of non-COVID-19 lower respiratory infections, 1990–2021** – *The Lancet Infectious Diseases* (2024)
12. **Recent Advances in CRISPR/Cas9-Mediated Genome Editing in Leishmania Strains** – *Acta Parasitologica* (2024)

2023

13. **Autophagy, a critical element in the aging male reproductive disorders and prostate cancer: a therapeutic point of view** – *Reproductive Biology and Endocrinology* (2023) – [First Author]
14. **Evaluation of Human Papillomavirus in the Semen of Infertile Men and Its Relationship with Semen Quality** – *Archives of Clinical Infectious Diseases* (2023)
15. **Global, regional, and national burden of diabetes from 1990 to 2021, with projections to 2050** – *The Lancet* (2023)
16. **Global, regional, and national incidence of six major immune-mediated inflammatory diseases** – *eClinicalMedicine* (2023)
17. **Male obesity is associated with sperm telomere shortening and aberrant mRNA expression of autophagy-related genes** – *Basic and Clinical Andrology* (2023) – [First Author]
18. **Prevalence of Human Papillomavirus in Iranian infertile men and its association with semen quality** – *Research Square* (2023)

2022

19. **An elderberry-supplemented diet improves spermatogenesis in mice with busulfan-induced azoospermia** – *Reproduction, Fertility and Development* (2022)
20. **Comparative Effect of Photobiomodulation on Human Semen Samples Pre- and Post-Cryopreservation** – *Reproductive Sciences* (2022)
21. **Curcumin and its derivatives in cancer therapy: Potentiating antitumor activity of cisplatin and reducing side effects** – *Phytotherapy Research* (2022)
22. **Long non-coding RNAs as new players in bladder cancer** – *Life Sciences* (2022)
23. **Therapeutic Effects of Edaravone on Azoospermia** – *Journal of Reproduction and Infertility* (2022) – [Co-corresponding Author]
24. **Therapeutic potentials of CRISPR-Cas genome editing technology in human viral infections** – *Biomedicine and Pharmacotherapy* (2022)
25. **Recent Advances in siRNA Delivery Systems for Prostate Cancer Therapy** – *Current Pharmaceutical Biotechnology* (2022-03)

2021

26. **An effective method for establishing animal models of azoospermia and oligospermia** – *Andrologia* (2021)
27. **Antimicrobial peptides as potential therapeutics for breast cancer** – *Pharmacological Research* (2021)
28. **Association between rs1049174 NKG2D gene polymorphism and idiopathic recurrent spontaneous abortion** – *Journal of Obstetrics and Gynaecology* (2021)
29. **Association of dietary insulinaemic potential and odds of non-alcoholic fatty liver disease** – *Journal of Human Nutrition and Dietetics* (2021)
30. **Nonviral siRNA delivery systems for pancreatic cancer therapy** – *Biotechnology and Bioengineering* (2021)
31. **The evaluation of Human papilloma virus and human herpes viruses in semen samples** – *Andrologia* (2021)
32. **Association of dietary fiber and depression symptom: A meta-analysis** – *Complementary Therapies in Medicine* (2021-01)

2020

33. **Photobiomodulation restores spermatogenesis in transient scrotal hyperthermia-induced mice** – *Life Sciences* (2020-08)
34. **Curcumin-Loaded Iron Particle improvement of spermatogenesis in azoospermic mouse induced by long-term scrotal hyperthermia** – *Reproductive Sciences* (2020-08-11)
35. **Antimicrobial peptides: a promising strategy for lung cancer drug discovery?** – *Expert Opinion on Drug Discovery* (2020-08-04)
36. **Silymarin protects the structure of kidney in neonatal rats exposed to maternal cadmium toxicity** – *Veterinary Research Forum* (2020-06)

2018

37. **Airway Epithelial Barrier Dysfunction in Chronic Obstructive Pulmonary Disease: Role of Cigarette Smoke Exposure** – *American Journal of Respiratory Cell and Molecular Biology* (2018-02)

کتاب‌ها و فصل‌های کتاب

کتاب‌ها

• واکسیناسیون جامع دام و طیور (۱۳۹۶)

فصل‌های کتاب

- **2025 – Introduction to Cranio-Maxillofacial Bone Tissue Engineering** – In: Keyhan, S.O., Bohluli, B., Fallahi, H.R., Khojasteh, A., Fattahi, T. (eds) *Handbook of Oral and Maxillofacial Surgery and Implantology*. Springer, Cham – [Co-author]

- **2024 – Novel Biomaterials Used for Cranio-Maxillofacial Bone Engineering** – In: Keyhan, S.O., Bohluli, B., Fallahi, H.R., Khojasteh, A., Fattahi, T. (eds) *Handbook of Oral and Maxillofacial Surgery and Implantology*. Springer, Cham – [Co-author]
-

کنفرانس های بین المللی

- **2017** – *Effect of Quercus brantii fruit extract on Leydig cells in diabetic rats* – 4th ISERB, Tehran, Iran
 - **2017** – *Effect of aerobic training on sperm quality* – 4th ISERB, Tehran, Iran
 - **2016** – *Coconut meat extract on sperm quality* – 3rd ISERB, Tehran, Iran
 - **2016** – *Coconut meat extract in type II diabetic rats* – 18th Royan International Twin Congress, Tehran, Iran
 - **2015** – *Zataria multiflora essential oil induces apoptosis in lung cancer* – 13th ICIA, Tabriz, Iran
 - **2015** – *Avocado seed extract on epididymis structure in diabetic mice* – 19th NBC, Tabriz, Iran
 - **2014** – *Silymarin protects bronchial epithelium from cadmium toxicity* – 3rd International Conference on Medical Herbs, Iran
-

پروژه های تحقیقاتی به عنوان مجری اصلی (PI)

- پروژه های در دست بررسی

1. **Investigating the effects of a diet containing pinorexinol on spermatogenesis in ifosfamide-induced oligozoospermic mice** – Under review by Faculty/Center

● پروژه‌های در حال انجام

2. **Investigating the effect of Elderberry (*Sambucus nigra*) diet on apoptosis and inflammation in the testis of adult male rats treated with methamphetamine – *Ongoing***
3. **Investigating the effects of Elderberry (*Sambucus nigra*) diet on spermatogenesis in cyclophosphamide-induced oligozoospermic mice – *Ongoing***

● پروژه‌های تکمیل شده

4. **Investigating the effects of lycopene on spermatogenesis in ifosfamide-induced oligozoospermic NMRI mice – *Completed***

پروژه‌های تحقیقاتی (به عنوان همکار پژوهشی)

● پروژه‌های در دست بررسی / تأیید اولیه

1. **Effect of freezing on sperm parameters, apoptosis indices, DNA integrity, oxidative stress, and expression of microRNAs related to sperm quality in men with asthenozoospermia – *Under review by Faculty/Center***
2. **Evaluation of functional sperm indices based on the presence or absence of ubiquitin protein in infertile men with sperm DNA fragmentation: Comparison of MACS and DGC methods – *Under review by Faculty/Center***
3. **Effectiveness of Progesterone compared to placebo on chromatin maturation, DNA integrity, and sperm parameters in men with metabolic syndrome – *Initial approval by Faculty/Center***
4. **Effects of Ashwagandha (*Withania somnifera*) on spermatogenesis in busulfan-induced oligospermic adult male mice – *Under review / Referred back from Ethics Committee***

● پروژه‌های در حال انجام

5. **Effect of age on sperm DNA damage and viability in men referred to Imam Hossein Hospital (2024-2025) – Ongoing**
6. **Association between low motility and sperm DNA integrity in men referred to Imam Hossein Hospital (2024-2025) – Ongoing**
7. **Therapeutic effect of Elderberry on cyclophosphamide-induced ovarian damage in adult female mice – Ongoing**
8. **Evaluation of functional sperm indices based on the presence or absence of ubiquitin protein in infertile men with DNA fragmentation issues – Ongoing**
9. **Effect of sperm preparation using microfluidic technique compared to Swim-up method on functional sperm indices and ICSI outcomes in infertile men with sperm DNA fragmentation – Ongoing**
10. **Association between embryo age at transfer and pregnancy outcomes in IVF-derived embryos – Ongoing**
11. **Association between sperm morphology and quality of IVF-derived embryos – Ongoing**
12. **Effect of nano-selenium loaded with quercetin on spermatogenesis in cyclophosphamide-induced azoospermic mice – Ongoing**
13. **Therapeutic effects of melatonin loaded on polylactic acid/chitosan hybrid nanoparticles on spermatogenesis in cyclophosphamide-induced azoospermic mice – Ongoing**

● پروژه‌های تکمیل شده

14. **Effect of cigarette smoking on sperm parameters in men referred to Imam Hossein Hospital (2024-2025) – Completed**
15. **Effect of Bromoline on spermatogenesis in rats following REM sleep deprivation – Completed**
16. **Effect of Bromoline on sperm parameters and testicular tissue in rats following REM sleep deprivation – Completed**
17. **Effects of curcumin nanoemulsion on improving spermatogenesis in cyclophosphamide-induced azoospermic mice – Completed**
18. **Effects of Elderberry diet on improving spermatogenesis in busulfan-induced azoospermic mice – Completed**

19. **Antioxidant effect of Edaravone on semen parameters, testicular dysfunction, and apoptosis in busulfan-induced azoospermic mice – Completed**
 20. **Systematic review of non-viral targeted drug delivery systems for siRNA delivery to pancreatic cancer tissue – Completed**
 21. **Systematic review of the use of human antimicrobial peptides for breast cancer treatment – Completed**
 22. **Evaluation of sperm functional characteristics and associated factors in men with HPV infection referred to Taleghani Infertility Center (2021) – Completed**
 23. **Evaluation of autophagy-related gene expression (Bcl2, Beclin1, AMPK α 1, Bax), apoptotic changes, telomere length, and DNA integrity in spermatozoa of obese subfertile men compared to normal-weight fertile men – Completed**
 24. **Prevalence of Epstein-Barr virus, Herpesvirus type 6, and Cytomegalovirus in semen samples of infertile men compared to fertile individuals – Completed**
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اختراعات

- **2016** – Square dermatome for veterinary surgery
-

مهارت‌های آزمایشگاهی

- کمک‌باروری IVF، ICSI، کشت جنین، انتقال جنین، تخلیه سلول‌های کومولوس از تخمک، آزمون جنین موشی (MEA)، انجماد جنین، انجماد تخمک
- آنالیز اسپرم: آنالیز منی، انجماد اسپرم، آزمون‌های حیات (اؤزین-نیگروزین، HOS، رنگ‌آمیزی سه‌گانه، SCD، TUNEL، آنیلین بلو، CMA3، سنجش طول تلومر
- بافت‌شناسی: بافت‌شناسی معمولی، استریولوژی، ایمونوهیستوشیمی، ایمونوسیتوشیمی
- میکروسکوپی: نوری معمولی، فاز کنتراست، فلورسانس، استریومیکروسکوپ، اینورت
- زیست‌شناسی مولکولی: استخراج RNA/DNA، الایزا، PCR

• مدل‌های حیوانی: آزواسپرmi/الیگواسپرmi) شیمی درمانی، EDC، هایپرترمی، واریکوسل، چاقی، دیابت نوع ۲، سمیت فلزات سنگین (کادمیوم، سرب)

گواهینامه‌های بین‌المللی

- **2020** – The Ideal IVF Lab 1: The Environment – QUARTEC
- **2020** – The Ideal IVF Lab 1: The Equipment – QUARTEC
- **2020** – The Ideal IVF Lab 1: The Culture Medium – QUARTEC
- **2021** – Trophoctoderm Biopsy: Technical Difficulties and Tips – ESHRE
- **2021** – Canary in the Mineshaft: How to Use KPIs to Detect Shifts in Quality of Your Culture System – ESHRE