

Saeed Shokri

Ph.D. in Anatomical Sciences and
Developmental Biology

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1. EDUCATIONAL QUALIFICATIONS

Institution

Highest Qualification

Tehran University of Medical
Sciences, Tehran, Iran

Ph.D. -Anatomical Sciences (Anatomy, Histology, and Embryology)
(Feb 2005 to Nov 2009)
Thesis title: Impacts of exercise and the supraphysiological dose of
Nandrolone Decanoate on the male reproductive system.

The University of Newcastle,
Newcastle, Australia

Ph.D. Research Program
(Jan 2009 to Jul 2009)
Project title: Signal transduction cascades activated by insulin in the male
germline.

Shiraz University of Medical
Sciences, Shiraz, Iran

M.Sc. -Anatomical Sciences (Anatomy, Histology, and Embryology)
(Sep 2000 to Jul 2003)
Thesis title: The effects of supraphysiological doses of nandrolone
decanoate on the ultrastructure of the testis: A transmission electron
microscope study

Urmia University of Medical
Sciences, Urmia, Iran

B.Sc. -Nursing Sciences
(Sep 1996 to Aug 2000)

The University of Sydney

Modular Professional Learning Framework (MPLF)
(Dec 2021-Present)

LabTech Training Victoria

Part of MSL40118 Certificate IV of Laboratory Techniques
(April 2021-August 2021)

VETASSESS, Australia

My skills and work experience were recently accredited by
VETASSESS, Australia's largest skills assessment provider
(2019-2020)

2. PROFESSIONAL EXPERIENCE

Jan 2023- Present
Senior Lecturer
(Education Focused)

The University of Sydney, Faculty of Medicine and Health, School of medical Sciences, NSW, Australia

Responsibilities:

- Convening and lecturing in preclinical basic sciences for undergraduate and postgraduate students
- Carrying out research in clinical medicine and in education.
- Demonstrating in practical sessions using anatomy models, the virtual Human Dissector (Sectra Table), 3D Complete Anatomy, and Virtual Reality
- Developing academic curricula of medical and paramedical students
- Directing of experimental labs of the Department of Anatomical Sciences

Sep 2021- Dec 2022
Lecturer
(Teaching & Research)

The University of Sydney, Faculty of Medicine and Health, School of Rural Health (Dubbo/Orange), NSW, Australia

Responsibilities:

- Setting up anatomy, histology, and other basic medical sciences labs
- Convening and lecturing in preclinical basic sciences for undergraduate and postgraduate students
- Carrying out research in clinical medicine and in education.
- Demonstrating in practical sessions using anatomy models, the virtual Human Dissector (Sectra Table), 3D Complete Anatomy, and Virtual Reality
- Developing academic curricula of medical and paramedical students
- Directing of experimental labs of the Department of Anatomical Sciences

April 2022- Present
Researcher

The University of Newcastle, Newcastle, Australia

Project title:

Improved methods of DNA extraction from human and equine spermatozoa that mitigate experimentally-induced oxidative DNA damage

Responsibilities:

- Preparation of a normal population of human and equine spermatozoa and separation the high-quality (100%) sperm and low-quality (50%) sperm.
- Splitting them into two halves (1- Normal low- and high-quality spermatozoa, 2- Normal low and quality spermatozoa mixing with 5mM H₂O₂ for two hours).
- Exposing samples to the different ultrasound regimens.
- Quantification of oxidative DNA damage via an Elisa assay

Jan 2016–Jan 2021
Associate Professor

Zanjan University of Medical Sciences (ZUMS), Zanjan, Iran

Responsibilities:

- Convening and lecturing in anatomy, neuroanatomy, physiology, embryology, histopathology, and assisted reproductive technologies (ART) for undergraduate and postgraduate students
- Running and convening advanced courses of surgical anatomy for medical and dentistry residents.
- Dissecting a human cadaver
- Demonstrating in practical sessions using human cadaver and the virtual dissection table
- Developing academic curricula of medical and paramedical students
- Directing of experimental labs of the Department of Anatomical Sciences
- Supervising and advising Master's and Ph.D. students theses
- Researching the field of reproductive medicine
- Conducting human clinical trials in human reproduction
- Designing research projects and managing research budgets
- Generating animal models (such as epididymo-orchitis) of reproductive diseases
- Data collection/analysis and writing scientific manuscripts
- Performing molecular, cellular, and histological techniques

Jan 2015–Dec 2015
Postdoctoral researcher

Molecular reproductive medicine, Lund University, Lund, Sweden

Project title:

1. Antioxidant (Androferti) treatment of men with a high proportion of spermatozoa with damaged DNA.
2. CAG repeats polymorphism in the blood and testis cancer survivors

Responsibilities:

- Set up and performing experiments for the detection of cytosolic and mitochondrial superoxide anion via flow cytometry
- Performing allele-specific PCR and small pool PCR.
- Supervising staff and postgraduate students
- Data collection and analysis, and writing of scientific manuscripts

Dec 2009–Dec 2014
Assistant Professor

Zanjan University of Medical Sciences (ZUMS), Zanjan, Iran

Responsibilities:

- Convening and lecturing in topographic anatomy, neuroscience, physiology, histopathology, embryology, and cell biology for undergraduate and postgraduate students
- Running and convening advanced courses of surgical anatomy for medical and dentistry residents
- Demonstrating in practical sessions and dissecting a human cadaver
- Developing academic curricula of medical and paramedical students
- Supervising and advising Master students theses
- Performing molecular, cellular, and histological techniques
- Supervising and advising Master students theses
- Carrying out research in the field of reproductive biology

- Data collection and analysis, and writing of scientific manuscripts

3. AWARDS, HONOURS & GRANTS

- **Qualified as a Distinguished Talent** by the Australian Government (Department of Home Affairs), which led to granting the Permanent Residency Visa of Australia, November 2020
- **Assessing My Bachelor's (B.Sc.) and Ph.D. qualifications** and about eight years of working experience by the **Australia VETASSESS company** compared to the educational level of an AQF academic degree and were therefore at the required level in September 2019.
- **Promotion to Associate Professor Rank**, A Plaque for Excellence Presented by the Chancellor of Zanjan University of Medical Sciences, Zanjan, Iran, 2016
- **Top Oral Presentation Award**, International Anatomical Sciences Congress, Rasht, Iran, 2012
- **Top Lecturer Award**, School of Medicine, Zanjan University of Medical Sciences, 2014
- **Top Student Award**, School of Medicine, Tehran University of Medical Sciences, 2005
- **Top Academic Educational Process Award** in the 7th Motahhari Educational Festival, 2013; Title of the process: " Investigating the effect of repeated weekly exams on increasing the academic level of medical students in anatomy in the short and long term."
- **Postdoctoral Scholarship**, Lund University, 2015
- **4.5-year Scholarship** by Zanjan University of Medical Sciences to study Ph.D. of Anatomical Sciences at Tehran University of Medical Sciences, 2005-2009
- **Six-Month Scholarship** granted by the Iranian Ministry of Health and Medical Education for collaborative Ph.D. studies at the University of Newcastle, Newcastle, Australia, 2009
- **Travel Grant** by 5th meeting of the international network for young researchers in male fertility, Stockholm, Sweden, 2012
- **Superior Assistant Professor Plaque**, Evaluated by Radiology Department in 100th X-Ray birthday Meeting, Zanjan University of Medical Sciences, Zanjan, Iran, 2012
- **Third Ranked Student** in high-competitive National Ph.D. Entrance Exam, 2005
- **Academic Competitive Grant**, Zanjan University of Medical Sciences; "signal transduction cascades activated by INSL3-Rxfp2 in the male germline", 2012
- **Academic Competitive Grant**, Zanjan University of Medical Sciences; "The effects of running exercise and the supraphysiological dose of nandrolone decanoate on the spermatogenic cell lineage apoptosis and antioxidant enzymes of testis in adult male rats," 2010
- **Academic Competitive Grant**, Zanjan University of Medical Sciences; "The Effects of Insulin, Prolactin, and Leptin as prosurvival factors for human spermatozoa on the generation of the reactive oxygen species (ROS) and apoptosis of human sperm in the fertile men after cryopreservation," 2013
- **Academic Competitive Grant**, Zanjan University of Medical Sciences; "The effects of melatonin on the apoptosis and antioxidant enzymes of testis against lithium-pilocarpine induced temporal lobe epilepsy in rats: a time-course study," 2011

4. TEACHING EXPERIENCE

4.1. The following tabulation summarizes my undergraduate and postgraduate teaching load, segregated for the University of Sydney and Zanzan University of Medical Sciences, with student demographic information and unit content. A tailored approach to each student cohort is adopted in my teaching, recognizing the varying professional development skills and graduate outcomes affiliated with each degree.

The University of Sydney, Faculty of Medicine and Health, School of Rural Health (Dubbo/Orange)				
<i>Unit Title</i>	<i>Student No</i>	<i>Administrative Role</i>	<i>Years</i>	<i>Student Cohort</i>
Foundation Block (Anatomy of the Lower Limb Bones, Joints, Muscles, Vessels, and Nerves)	24	Lecturer, Lead Demonstrator	Feb 2022	Year 1 Medicine Students
Musculoskeletal Block (Anatomy of the Back and the Upper Limb Bones, Joints, Muscles, Vessels, and Nerves)	24	Lecturer, Lead Demonstrator	March 2022	Year 1 Medicine Students
Respiratory Block (Anatomy of the Upper and Lower Respiratory System)	24	Lecturer, Lead Demonstrator	April 2020	Year 1 Medicine Students
Cardiovascular Block (Anatomy of the Thorax, Mediastinum, Heart, Great vessels, and Scalp, face and neck)	24	Lecturer, Lead Demonstrator	May 2022	Year 1 Medicine Students
Renal (Anatomy of the Pelvis, Male, Female, and Urinary Systems)	24	Lecturer, Lead Demonstrator	June 2022	Year 1 Medicine Students
Endocrine (Sculp, Face, Mastication, and Skull; Mouth, Pharynx, and Larynx; Oesophagus, Stomach, Duodenum, Liver, Pancreas, and Spleen)	24	Lecturer, Lead Demonstrator	August 2022	Year 1 Medicine Students
Sexual Health & Reproduction (Small and Large Intestines, and Peritoneal Cavity)	24	Lecturer, Lead Demonstrator	September 2022	Year 1 Medicine Students
Gastroenterology (Cross-sectional & Ultrasound imaging of Abdomen; Vascular ultrasound; Ear and Eye; Sectional anatomy of the Head and Neck)	24	Lecturer, Lead Demonstrator	October 2022	Year 1 Medicine Students
Neurosciences (Spinal cord, Brainstem, Cranial nerves, Sensory	24	Lecturer, Lead Demonstrator	November 2022	Year 1 Medicine Students

and Motor Pathways, and Cortex/Forebrain)				
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Zanjan University of Medical Sciences, Zanjan, Iran				
Unit Title	Student No	Administrative Role	Years	Student Cohort
Anatomy, Histology, and Embryology of Reproductive System	305	Course Coordinator; Lecturer, Lead Demonstrator	2016-2020	1st year Medicine Students
Anatomy, Histology, and Embryology of Musculoskeletal System	238	Course Coordinator; Lecturer, Lead Demonstrator	2010-2014	Radiology Students
Head and Neck Anatomy and Embryology	380	Course Coordinator; Lecturer, Lead Demonstrator	2007-2020	2ed year Medicine Students
Neuroanatomy, Embryology, and Neurophysiology	485	Course Coordinator; Lecturer, Lead Demonstrator	2007-2020	2ed year Medicine Students
Trunk Anatomy and Embryology (Thorax, Abdomen, and Pelvis)	387	Course Coordinator; Lecturer, Lead Demonstrator	2007-2014	1st year Medicine Students
Trunk Anatomy and Embryology (Thorax, Abdomen, and Pelvis)	36	Course Coordinator; Lecturer, Lead Demonstrator	2007-2014	MSc Students in Physiology and Anatomy
Limb Anatomy and Embryology	237	Course Coordinator; Lecturer, Lead Demonstrator	2010-2017	Radiology Students
Advanced Anatomy and Embryology (Digital-based Courses)	30	Course Coordinator; Lecturer, Lead Demonstrator	2016-2017	Ph.D. Students in Parasitology
General Anatomy, Embryology, and Physiology	235	Course Coordinator; Lecturer	2003-2020	Midwifery, Nursing, Paramedical Students
Embryology and Developmental Biology	130	Course Coordinator; Lecturer	2005-2006	Midwifery Students
Sectional Anatomy	130	Course Coordinator; Lecturer	2014-2018	Radiology Students
Human and Animal Sperm Preparation	37	Course Coordinator; Lecturer, Lead Demonstrator	2010-2020	MSc Students in Anatomical Sciences and physiology

Tissue Preparation Techniques	35	Course Coordinator; Lecturer, Lead Demonstrator	2014- 2019	Master Students in Anatomical Sciences
Immunohistochemistry Techniques	35	Course Coordinator; Lecturer, Lead Demonstrator	2013- 2020	Master Students in Anatomical Sciences

<i>International Campus of Zanjan University of Medical Sciences, Zanjan, Iran (teaching in the English language)</i>				
<i>Unit Title</i>	<i>Student No</i>	<i>Administrative Role</i>	<i>Years</i>	<i>Student Cohort</i>
Anatomy, Histology, and Embryology of Reproductive System	478	Course Coordinator; Lecturer, Lead Demonstrator	2016- 2020	1st year Medicine Students
Head and Neck Anatomy and Embryology	485	Course Coordinator; Lecturer, Lead Demonstrator	2007- 2020	2ed year Medicine Students
Neuroanatomy, Embryology, and Neurophysiology	384	Course Coordinator; Lecturer, Lead Demonstrator	2007- 2020	2ed year Medicine Students
Trunk Anatomy and Embryology (Thorax, Abdomen, and Pelvis)	405	Course Coordinator; Lecturer, Lead Demonstrator	2007- 2014	1st year Medicine Students
General Anatomy, Embryology, and Physiology	45	Course Coordinator; Lecturer	2006- 2020	Pharmacy Students

4.2. GRADUATE THESIS MAIN SUPERVISOR OF

- 1) **Yeganeh IS (Ph.D. student in Anatomical Sciences, 2018):** The expression of relaxin family peptide4 (RXFP4) on human sperm and assays the effect of Insulin-like peptide 5 (INSL5) on sperm quality, DNA damage, and Reactive oxygen species (ROS) production.
- 2) **Soltani A (Master's student in Radiology, 2012):** The effects of Electro-Magnetic Fields radiation from the laptop computer on the male germ cells in the Rat model
- 3) **Haydari S (Master's student in Medical Genetics, 2016):** The expression of relaxin family peptide 3 (Rxfp3) on human sperm and the study of the effect of Relaxin 3 (RLN3) on the sperm quality.
- 4) **Hatef B (Master's student in Medical Genetics, 2016):** Evaluation of antiapoptotic & antioxidant effects of stromal cell-derived factor-1 alpha (SDF-1 α) on normal fertile men sperm after cryopreservation
- 5) **Farrokhi A (Master's student in Anatomical Sciences, 2016):** Evaluation of the effect of SDF-1 α on the testis and sperm parameters after rat model spinal cord injury
- 6) **Madankan A (Medical student, 2014):** The protective effects of Ginseng on the accessory sex organs of Temporal Lobe Epilepsy (TLE) rat models treated with retinoic acid

4.3. GRADUATE THESIS ADVISOR OF

- 1) **Moayeri A (Ph.D. student in Anatomical Sciences, 2012):** The protective effects of melatonin on the apoptosis and antioxidant enzymes of testis after the coadministration of swimming exercise and the supraphysiological

dose of nandrolone in adult male rats.

- 2) **Kazemi M (Master's student in physiology, 2013):** The protective effects of melatonin on the hippocampus of Temporal Lobe Epilepsy (TLE) rat models.
- 3) **Norouzi S (Master's student in physiology, 2015):** The protective effects of Ginseng on the testis of Temporal Lobe Epilepsy (TLE) rat models treated with retinoic acid.
- 4) **Bigonah S (Master's student in physiology, 2015):** The protective effects of Ginseng on the hippocampus of Temporal Lobe Epilepsy (TLE) rat models treated with retinoic acid.
- 5) **Jani S (Master's student in physiology, 2015):** The effects of Korean red Ginseng on the testes of rat infected by Uropathogenic Escherichia Coli (UPEC)
- 6) **Ghalianchi A (Master's student in physiology, 2015):** Protective effects of Korean Red Ginseng on the apoptosis of spermatogenic cell line results from Ciprofloxacin in the UPEC infection model in adult rats
- 7) **Ziaei pour S (Master's student in Anatomical Sciences, 2015):** The Effects of Insulin-like 3 (InsI3) as prosurvival factors for human spermatozoa on the generation of the reactive oxygen species (ROS) and apoptosis of human sperm in the asthenospermia men after cryopreservation
- 8) **Ghafori T (Master's student in animal biology, 2014):** Effects of exogenous testosterone on the testes and spermatogenesis of spinal cord injury mice model
- 9) **Estaji M (Master's student in Anatomical Sciences, 2012):** Tracking the efferents of the bed nucleus of stria terminalis and medial amygdala to the preoptic area by nostril obstruction in the rat
- 10) **Mazloumi S (Master's student in physiology, 2020):** The effects of curcumin on the sperm parameters and the expression of Catsper in the sleep deprivation rat model

5. LAB SKILLS SUMMARY

- **SECTRA Virtual Dissection Table;** Teaching Anatomy on the SECTRA education portal and virtual human dissector at a professional level
- **3D Complete Anatomy;** Teaching anatomy on this 3D atlas at a professional level
- **Virtual Reality;** Teaching anatomy in this 3D media at a professional level
- **Cadavers and Anatomy Models;** Teaching anatomy on the cadaver and models at a professional level
- **Assisted reproductive technologies (ART)** in human and mouse including In vitro fertilization (IVF), Intracytoplasmic sperm injection (ICSI), sperm preparation, and freezing, and embryo transfer, biopsy, and vitrification
- **Sperm Analysing by CASA machine** (Computer-Assisted Sperm Analysis) and LM (Light Microscope)
- **Tissue processing** for Transmission Electron Microscope (TEM) and Light Microscope (LM)
- **Histological techniques** (H&E staining, Immunohistochemistry, Immunocytochemistry)
- **Localizing specific receptors** on sperm by Immunocytochemistry
- **Molecular techniques** (polymerase chain reaction (PCR), Reverse Transcription- polymerase chain reaction (RT-PCR), western blotting) specifically on the spermatozoa
- **Flow cytometry** analysis of spermatozoa
- **Sperm DNA extraction** and quantification
- **Quantification of Oxidative DNA damage** of spermatozoa via ELISA
- **Quantification of Hydrogen Peroxide (H₂O₂)** concentration via Spectrophotometer
- **Cell culture** techniques
- **Fixation and dissecting** of human and animal cadavers
- **Database management**, analytical skills, record keeping, and Statistical analysis
- **Scientific writing**
- **Group and project leader**

- **Computer literacy** and proficiency in Microsoft Office, Web tools, EndNote, SPSS

6. RESEARCH PUBLICATIONS & BIBLIOGRAPHY

6.1. JOURNAL ARTICLES

1. Ebrahimi SM, **Shokri S**, Ziaepour S, Asa E, Masaei Manesh M, Tabatabaee R, Latifpour M, Nejatbakhsh R. Leptin and prolactin reduce cryodamage in noormozospermic human semen samples during cryopreservation. *Rev Int Androl*. 2022 Oct 21; S1698.
2. R. John Aitken, Benjamin J. Curry, **Saeed Shokri**, Dwi Ari Pujiyanto, Dan Gavrilouk, Zamira Gibb, Sara Whiting, Haley S. Connaughton, Brett Nixon, Lois A. Salamonsen and Mark A. Baker. Evidence that extrapancreatic insulin production is involved in the mediation of sperm survival. *Molecular and Cellular Endocrinology, Mol Cell Endocrinol*. 2021 Apr 15; 526:111193.
3. **Shokri S**, Tavalae M, Ebrahimi SM, Ziaepour S, Nasr-Esfahani MH, Nejatbakhsh R. Expression of RXFP2 Receptor on Human Sperm and the Antiapoptotic and Antioxidant Effects of Insulin-Like Factor 3. *Andrologia*. 2020; 52 (9), e13715.
4. Ramezanikhah H, Farrokhi A, Nejatbakhsh R, **Shokri S***, Zendedel A, Abdanipour A. Involvement of Asc and Nlrp3 inflammasomes in the testes following spinal cord injury. *Endocrine Regulations*. 2020;54 (2):96-108. (*Correspondence Author)
5. Ghorbanlou M, Rostamkhani S, **Shokri S**, Mahmazi S, Fallah R, Moradi F, Nejatbakhsh R. Possible ameliorating effects of Glycyrrhiza Glabra (Licorice) on the sperm parameters in rats under high-fat diet. *Endocrine Regulations*. 2020;54 (1): 22-30.
6. Bahrami M, **Shokri S**, Farahani RM, Dadmehr M. A brief historical overview of fascia's anatomy in medieval Persian medicine. *Journal of Medical Ethics and History of Medicine*, 2020; 13.
7. **Shokri S**, Ebrahimi SM, Ziaepour S, Nejatbakhsh R. Effect of insulin on functional parameters of cryopreserved human sperms. *Cryobiology*. 2019 Apr; 87:68-73.
8. Ganjkhani M, Nourozi S, Bigonah R, Rostami A, **Shokri S***. Ameliorating impacts of Ginseng on the apoptosis of spermatogenic cells and sperm quality in the temporal lobe epilepsy rat model treated with valproate. *Andrologia* 2019; 51(9): e13348. (*Correspondence Author)
9. Ghorbanlou M, Abdanipour A, Shirazi R, Malekmohammadi N, **Shokri S**, Nejatbakhsh R. Indirect Co-Culture of Testicular Cells with Bone Marrow Mesenchymal Stem Cells Leads to Male Germ Cell-Specific Gene Expressions. *Cell J*. 2019 Jan;20(4):505-512.
10. Malekmohammadi N, Abdanipour A, Ghorbanlou M, **Shokri S**, Shirazi R, Dimitriadis E, Nejatbakhsh R. Differentiation of bone marrow-derived mesenchymal stem cells into male germ-like cells in co-culture with testicular cells. *Endocrine Regulations*. 2019;53 (2):93-99.
11. Chobineh H, Kazemi M, Sadighi Gilani MA, Heydari T, **Shokri S**, Bazrafkan M, Hassanzadeh G. Testosterone by Preventing CADM1 Defect Reduces SCI Effects on Male Reproduction. *Cell J*. 2018 Jul;20(2):138-149.
12. Abdnipour A, Ghorbanlou M, **Shokri S**, Jafari I, Nejatbakhsh R. Neuroprotective effects of selegiline on rat neural stem/precursor cells treated with hydrogen peroxide. *Biomed Rep*. 2018 Jan;8(1):41-46.
13. Nejatbakhsh R, Ghorbanlou, Rostamkhani S, Mahmazi S, Bayati V, **Shokri S**. Effects of Cinnamon extracts on the body mass index, organ weight, and biochemical indices in diet-induced obese rats. *Jondishapour Journal of Medical Sciences*. 2018 Jan;16(6):693-703. [In Persian]

14. Heydari S, Taronchi AH, Nejatbakhsh R, **Shokri S***. Expression and localization of relaxin family peptide receptor 5 in human spermatozoa and impact of insulin-like peptide seven on sperm functions. *Andrologia*. 2018 Apr;50(3):e12928. (*Correspondence Author)
15. Moayeri A, Mokhtari T, Hedayatpour A, Abbaszadeh HA, Mohammadpour S, Ramezanihah H, **Shokri S***. Impact of melatonin supplementation in the rat spermatogenesis subjected to forced swimming exercise. *Andrologia*. 2018 Apr;50(3):e12907:e12928. (*Correspondence Author)
16. Yeganeh IS, Taronchi AH, Fathabadi FF, Nejatbakhsh R, Novin MG, **Shokri S***. Expression and localization of relaxin family peptide receptor 4 in human spermatozoa and impact of insulin-like peptide five on sperm functions. *Reprod Biol*. 2017 Dec;17(4):327-332. (*Correspondence Author)
17. Hatef B, Taronchi A, Nejatbakhsh R, Farrokhi A, **Shokri S***. Supplementation of freezing media with stromal cell-derived factor-1 α preserves human sperm from cryodamage. *Cryobiology*. 2017 Dec; 79:37-42. (*Correspondence Author)
18. Bayat G, Javan M, Khalili A, Safari F, **Shokri S**, Hajizadeh S. Chronic endurance exercise antagonizes the cardiac UCP2 and UCP3 protein up-regulation induced by nandrolone decanoate. *J Basic Clin Physiol Pharmacol*. 2017 Nov 27;28(6):609-614.
19. Nejatbakhsh R, Riyahi S, Farrokhi A, Rostamkhani S, Mahmazi S, Yazdinezhad A, Kazemi M, **Shokri S***. Ameliorating effects of fennel and cumin extracts on sperm quality and spermatogenic cell apoptosis by inducing weight loss and reducing leptin concentration in diet-induced obese rats. *Andrologia*. 2017 Oct;49(8): e12748. (*Correspondence Author).
20. Eskandari M, Ghalyanchi Langeroudi A, Zeighami H, Rostami A, Kazemi M, Eyni H, **Shokri S***. Coadministration of Ginseng and Ciprofloxacin ameliorates epididymo-orchitis induced alterations in sperm quality and spermatogenic cell apoptosis following infection in rats. *Andrologia*. 2017 Apr;49(3): e12621. (*Correspondence Author)
21. Eskandari M, Jani S, Kazemi M, Zeighami H, Yazdinezhad A, Mazloomi S, **Shokri S***. Ameliorating Effect of Ginseng on Epididymo-Orchitis Inducing Alterations in Sperm Quality and Spermatogenic Cells Apoptosis following Infection by Uropathogenic Escherichia coli in Rats. *Cell J*. 2016 Fall;18(3):446-57. (*Correspondence Author)
22. Bahmanzadeh M, Vahidinia A, Mehdinejadiani S, **Shokri S**, Alizadeh Z. Dietary supplementation with astaxanthin may ameliorate sperm parameters and DNA integrity in streptozotocin-induced diabetic rats. *Clin Exp Reprod Med*. 2016 Jun;43(2):90-6.
23. Miri M, **Shokri S**, Darabi S, Alipour Heidari M, Ghalyanchi A, Karimfar MH, Shirazi R. Efficacy of Compound Therapy by Ginseng and Ciprofloxacin on Bacterial Prostatitis. *Cell J*. 2016 Spring;18(1):103-11.
24. Kazemi M, **Shokri S***, Ganjkhani M, Ali R, Iraj JA. Modulation of axonal sprouting along the rostrocaudal axis of the dorsal hippocampus and no neuronal survival in parahippocampal cortices by long-term post-lesion melatonin administration in lithium- pilocarpine model of temporal lobe epilepsy. *Anat Cell Biol*. 2016 Mar;49(1):21-33. (*Correspondence Author)
25. Fallahnezhad S, Nikbakht M, **Shokri S**. Expression of P33 (ING1b) Protein in Colorectal Cancer. *Middle East J Dig Dis*. 2016 Jan;8(1):44-50.
26. Bayat G, Javan M, Safari F, Khalili A, **Shokri S**, Goudarzvand M, Salimi M, Hajizadeh S. Nandrolone decanoate negatively reverses the beneficial effects of exercise on cardiac muscle via sarcolemmal, but not mitochondrial K (ATP) channel. *Can J Physiol Pharmacol*. 2016 Mar;94(3):324-31.

27. Jannatifar R, **Shokri S**, Farrokhi A, Nejatbakhsh R. Effect of the supraphysiological dose of Nandrolone Decanoate on the testis and testosterone concentration in mature and immature male rats: A time-course study. *Int J Reprod Biomed (Yazd)*. 2015 Dec;13(12):779-86.
28. **Shokri S***, Soltani A, Kazemi M, Sardari D, Mofrad FB. Effects of Wi-Fi (2.45 GHz) Exposure on Apoptosis, Sperm Parameters, and Testicular Histomorphometry in Rats: A Time Course Study. *Cell J*. 2015 Summer;17(2):322-31. (*Correspondence Author)
29. **Shokri S***, Kazemi M, Hemadi M, Moaiery A, Arab-Firoozjaei M, Gankhani M, Nejatbakhsh R. Melatonin protects testes against lithium-pilocarpine induced temporal lobe epilepsy in rats: A time-course study. *Andrologia*. 2015 Apr;47(3):343-53. (*Correspondence Author)
30. Rahgozar A, Ghasemi Hamidabadi H, **Shokri S**, Moayeri A, Esmaeilnejhad Moghaddam A. Effect of Human Chorionic Gonadotropin on the Destructive Effects of Nandrolone Decanoate on Sperm Parameters of Testes in Adult Rats. *Armaghan-e Danesh*. 2015;20 (9):811-824. [In Persian]
31. Staji M, Hassanzadeh G, Noori Mogahi H, Mohammad S, Jameie SB, Shokri S, et al. Investigating the Effect of Olfactory Deprivation on the bed nucleus of the Stria Terminalis and medial Amygdala Efferents to the Medial Preoptic area in Rats. *Advances in BioResearch*. 2015;6(6):126-133.
32. Minaii B, Moayeri A, **Shokri S***, Habibi Roudkenar M, Golmohammadi T, Malek F, Barbarestani M. Melatonin improves the sperm quality in forced swimming test induced oxidative stress in nandrolone treated Wistar rats. *Acta Med Iran*. 2014;52(7):496-504. (*Correspondence Author)
33. Hemadi M, **Shokri S**, Moramezi F, Nikbakht R, Sobhani A. Potential use of melatonin supplementation to protect the vitrified testes graft from hypoxic-ischemic damage. *Andrologia*. 2014 Jun;46(5):513-21.
34. **Shokri S***, Hemadi M, Bayat G, Bahmanzadeh M, Jafari-Anarkooli I, Mashkani B. Combination of running exercise and the high dose of anabolic-androgenic steroid, nandrolone decanoate, increases protamine deficiency and DNA damage in rat spermatozoa. *Andrologia*. 2014 Mar;46(2):184-90. (*Correspondence Author)
35. **Shokri S**, Mokhtari T, Azizi M, Abbaszadeh H, Moayeri A. Nandrolone decanoate administration can increase apoptosis in spermatogenesis cell lines in male rats. *Journal of Basic Research in Medical Sciences*. 2014;1(3):21-31.
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6.2. BOOK CHAPTERS

Shokri S, Hemadi M, Aitken RJ. Transmission electron microscopy for the quantitative analysis of testis ultrastructure. INTECH Open Access Publisher. 2012.

6.3. CONFERENCE ORAL/POSTER PRESENTATIONS

1. Hampshire LC, Havellas W, **Shokri S**, Beverdam A, Corvalan-Diaz C. Collaboration and co-creation: developing a state-of-the-art digital anatomy laboratory for the Sydney medical programme in Dubbo. Australian and New Zealand Association of Clinical Anatomists (ANZACA), Brisbane, Australia, 7-9 December 2022.

2. **An invited speaker**, at Hudson Institute in Medical Research, Melbourne, "Insulin superfamily peptides and sperm biology." 13th of April 2021

3. Ghorbanlou M, **Shokri S**, Safari M, Farrokhi A, Masoumi R, Nejatbakhsh R. Effects of conjugated linoleic acid (CLA) on spermatogenesis and apoptosis of germinal cells in male mice model of obesity. The Third International Congress on Reproduction, Tehran, Iran, ISERB 2017.

4. Maleklohamadi N, Safari M, Ghorbanlou M, Farrokhi A, Masoumi R, **Shokri S***, Nejatbakhsh R. Impacts of conjugated linoleic acid on the metabolic, hormonal status and sperm parameters in male mice model of obesity-induced by different oils. The third international congress on Reproduction, Tehran, Iran, ISERB 2017.

5. Ghorbanlou M, Abdanipour A, Shirazi S, Maleklohamadi N, **Shokri S**, Nejatbakhsh R. Specific male germ cells gene expression Dazl in mouse bone marrow mesenchymal stem cells by the method of co-culture with testis tissue and retinoic acid. Second Congress of Medical School Students of Zanjan University of Medical Sciences, Zanjan, Iran, Nov 2017.

6. **Shokri S**, Ganjkhani M, Norouzi S, Bigonah S. Impact of coadministration of Korean red ginseng and sodium valproate on the apoptosis of spermatogenic cells and sperm quality in pilocarpine-induced Epilepsy Rat. 12th Iranian Anatomical Congress, Tehran, Iran, May 2016.

7. **Shokri S**, Eskandari M, Ghalayanchi A. Co-administration of Ginseng and Ciprofloxacin ameliorates epididymo-orchitis induced alterations in sperm quality and spermatogenic cells apoptosis following infection in rats. ReproYoung Conference, Copenhagen, Denmark, Oct 2015.
8. **Shokri S**, Ziaeipour S, Ganji BG, Nejatbakhsh R. Antiapoptotic and Antioxidant Effect of Insulin-Like Factor-3 on Sperm of Fertile Men After Cryopreservation. Royan International Twin congress (12th congress on Reproductive Biomedicine and 7th congress on Stem Cell Biology and Technology), Tehran, Iran, Sep 2011.
9. **Shokri S**, Kazemi M, Ganjkhani M. Melatonin protects testes against lithium-pilocarpine induced Temporal lobe epilepsy in rats: a time-course study. 18th European Testis Workshop, Copenhagen, Denmark, May 2014.
10. Aitken RJ, **Shokri S**, Pujiato DA, Curry BJ, Whiting SJ, Salamonsen L. Insulin as an important prosurvival factor for human spermatozoa. 38th Annual Conference of American Society of Andrology, USA, 2013.
11. **Shokri S**, Moayeri A, Barbarestani M, Minaii B. Melatonin could improve the sperm quality, level of Antioxidant enzymes, and lipid peroxidation of testis after the combination of swimming exercise and the supraphysiological dose of Nandrolone Decanoate in rats. 14th Royan International Congress on Reproductive Biomedicine, Tehran, Iran, Sep 2013.
12. **Shokri S**, Jani S, Eskandari M, Zayghami H, Yazdinejad A, Mazloomi S. Protective effects of Korean red Ginseng on the testis of Epididymo-orchitis in the rat model. 14th Royan International Congress on Reproductive Biomedicine, Tehran, Iran, Sep 2013.
13. **Shokri S**, Kazemi M, Moayeri A, Firuzjaei MA. Melatonin treatment along with latent and chronic phases of temporal lobe epilepsy protects testes against the destroying effect of lithium-pilocarpine induced epileptic rats. 14th Royan International Congress on Reproductive Biomedicine, Tehran, Iran, Sep 2013.
14. **Shokri S**, Soltani A, Kazemi M. Evaluation of the effects of electromagnetic field (2.4 GHz) of laptop computers on the sperm quality, caspase three activity, spermatogenic cells apoptosis and the histomorphometry of testes in the adult rat. 14th Royan International Congress on Reproductive Biomedicine, Tehran, Iran, Sep 2013.
15. **Shokri S**, Bayat G, Jafari I. The effects of running exercise and the supraphysiological dose of nandrolone decanoate on the apoptosis of spermatogenic cells and antioxidant enzymes of rat testes. 17th European Testis Workshop, Stockholm, Sweden, April 2012.
16. **Shokri S**, Aitken RJ, Depujiato AD. Prosurvival Effect of Insulin on Human Spermatozoa via Mechanisms that Involve the Stimulation of Akt Phosphorylation, Suppression of Caspase Activation, and ROS production. 10th Anatomical Sciences Congress, Rasht, Iran, May 2012. **(The best oral presentation of congress)**
17. Farrokhi A, Soleimani M, **Shokri S**. Assay the familiarity with the Cone Beam Computed Tomography (CBCT) and the reasons for using this technique in the oral cavity areas. 9th Congress of Iranian Society of Radiology, Tehran, Iran, 2011.
18. **Shokri S**, Barbarestani S, Abdolvahabi MA. Exercise and the supraphysiological dose of nandrolone decanoate increase apoptosis in spermatogenic cells. 2^{ed} Biennial Meeting of Applied Animal Andrology Association congress, Sydney, Australia, August 2010.
19. **Shokri S**, Mesbah SF, Karbalaieidoust S. The effect of Anabolic-Androgenic Steroid on the testis in adult male rats: a Transmission Electron Microscope Study. 6th Congress of Anatomical Sciences, Shiraz, Iran, May 2004.

6.4. BOOKS:

I: Translated Medical Textbooks from English into Persian for Medical and Paramedical students

1. **(Chief translator)** Clinically Oriented Anatomy; Kite L Moore (2010)

II: Compiled Books

1. **(Chief Compiler)** Pocket atlas of anatomy with clinical notes for students.
2. **(Chief Compiler)** Regional, Clinical, and Sectional anatomy for medical students.
3. **(Chief Compiler)** Clinical Anatomy of the Central Nervous System.

7. PROFESSIONAL ACTIVITIES

- **Chief Warden at the School of Rural Health (Dubbo)**, Faculty of Medicine and Health, The university of Sydney, Australia, April-December 2022.
- **Head of Department of Anatomical Sciences**, Zanjan University of Medical Sciences, Zanjan, Iran, 2012-2014
- **Deputy Head of Department of Anatomical Sciences**, Zanjan University of Medical Sciences, Zanjan, Iran, 2016-2018
- **Member of the Board of Examiners of the Basic Sciences Exam** for medical, dentistry, pharmacy, and pre-internship students, Six Universities of Medical Sciences at the northwest and center of Iran, 2013-present
- **Member of Educational Development Office (EDO)**, Faculty of Medicine, Zanjan University of Medical Sciences, Zanjan, Iran, 2010-2013
- **Member of Neurosciences Research Group**, Faculty of Medicine, Zanjan University of Medical Sciences, Zanjan, Iran, 2012-2013
- **Member of the Research Council**, Faculty of Medicine, Zanjan University of Medical Sciences, Zanjan, Iran, 2012-2013
- **Scientific Committee Member** in 4th International Congress on Reproduction (ISERB), Tehran, Iran, 2018
- **Setting up the Computer-Assisted Sperm Analysis (CASA) machine**, Department of Anatomical Sciences, Zanjan University of Medical Sciences, Zanjan, Iran, 2014
- **Setting up the Histotechnique Lab**, Department of Anatomical Sciences, Zanjan University of Medical Sciences, Zanjan, Iran, 2014
- **Setting up the Flow cytometry (FACS) machine**, Faculty of Medicine, Zanjan University of Medical Sciences, Zanjan, Iran, 2014
- **Launching the workshop of Animal IVF-2017**, Department of Anatomical Sciences, Zanjan University of Medical Sciences, Zanjan, Iran, 2017
- **Launching the Workshop of Western blotting**, Department of Anatomical Sciences, Zanjan University of Medical Sciences, Zanjan, Iran, 2017
- **Participating in the Workshop of Slow Vitrification of Mice Testis** for 8 hours, Iranian Society of Embryology & Reproductive Biology (ISERB), Tehran, Iran, 2016
- **Participating in the Online Course of Neuroimmunology and Applied Bioinformatics**, Department of neuropathology, University of Tubingen, Germany, 2016
- **Participating in the ESHRE Webinar: 'COVID-19 and ART'**, European Society of Human Reproduction and Embryology (ESHRE), May 11, 2020
- **Participating in the Education Program in Reproduction & Development (EPRD) Incubator Meetings**, Monash University, Melbourne, Australia, Every two weeks from July 2021 to December 2021
- **Participating in the Department of Obstetrics and Gynaecology Collaborative Research Meetings**, Hudson Institute of Medical Research, Melbourne, Australia, Every week from July 2021 to November 2021

8. CONTRIBUTION TO SCIENCE

- **Reviewing papers** for peer-review International Journals such as:
 1. Reproductive Biology and Endocrinology
 2. Microscopy Research and Technique
 3. Neurotoxicity Research
 4. Journal of Medical Sciences, Zanjan University of Medical Sciences, Zanjan, Iran.
 5. Journal of Ahvaz Jundishapour University of Medical Sciences. Ahvaz, Iran.
- **Abstract judge** for 11th Iranian Congress of Anatomical Sciences, Ahvaz, Iran, 2013.
- **Master's Student Thesis Marking:** "Differentiation of bone marrow-derived mesenchymal stem cells into male germ-like cells in co-culture with testicular cells with BMP4", Zanjan University of Medical Sciences, 2017.
- **Master's Student Thesis Marking:** "Differentiation of bone marrow-derived-mesenchymal stem cells into male germ-like cells in co-culture with testicular cells with retinoic acid", Zanjan University of Medical Sciences, 2018.
- **Master's Student Thesis Marking:** "Stereological and tensiometry studies on the effect of combined pulsed-wave low-level laser therapy and mesenchymal stem cell-conditioned medium on the healing of an infected wound with methicillin-resistant Staphylococcal aureus in diabetic rats", Zanjan University of Medical Sciences, 2018.
- **Master's Student Thesis Marking:** "The Effects of Coenzyme Q10 on Mouse Embryos Following Vitrification", Zanjan University of Medical Sciences, 2018.
- **Master's Student Thesis Marking:** "The Effect of Hydroethanolic Extract of Matricaria Chamomilla on the Reproductive System of Male Rats Exposed to Formaldehyde," Zanjan University of Medical Sciences, 2017.
- **Master's Student Thesis Marking:** "The effect of alpha- and beta-adrenergic blockers on the expression of Stk4, Caspase-3, and Sox2 in neural stem cell-derived from rat hippocampus treated with neuroepinephrin", Zanjan University of Medical Sciences, 2017.

9. MEMBERSHIP OF SCIENTIFIC SOCIETY

- Australian and New Zealand Association of Clinical Anatomists (ANZACA): anzaca.org
- Network for Young Researchers in Andrology (NYRA): <https://nyra-youngresearch.eu/>
- Association of Applied Animal Andrology (AAAA): <https://www.animalandrology.org/>
- Iranian Society of Anatomical Sciences (ISAS): http://isas.ir/index.php?slc_lang=en&sid=1

10. REFEREES

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