

# **Amin Derakhshanfar**

## **Professor**

### **D.V.M., Ph.D.**



1. Department of Comparative Biomedical Sciences, School of Advanced Medical Sciences and Technologies, Shiraz University of Medical Sciences, Shiraz, Iran
2. Diagnostic Laboratory Sciences and Technology Research Center, Shiraz University of Medical Sciences, Shiraz, Iran
3. Center of Comparative and Experimental Medicine, Shiraz University of Medical Sciences, Shiraz, Iran

**E-mail:**      derakhshanfar@sums.ac.ir

aderakhshanfar@yahoo.com

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### **Professional Development**

- Tehran School of Veterinary Medicine, Ph.D. degree in Veterinary Pathology
  - Shiraz School of Veterinary Medicine, D.V.M. degree
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## Highlights

- Professor of Comparative Pathology.
- Graduated from a 4-years program of Philosophy of Doctorate in the field of veterinary pathology.
- Presented more than 100 scientific articles in the various veterinary and medical journals.
- Presented more than 200 scientific articles at the international and domestic congresses (selected references).
- Conducted more than 100 D.V.M. theses.
- Conducted more than 10 Ph.D. theses.
- Conducted more than 15 M.Sc. theses.
- Able to conduct and manage a variety of clinical and experimental researches and interprets the results.
- Establishment of pathology and necropsy lab.
- Teaching of histology to veterinary and medical students.
- Teaching of comparative histology to comparative biomedical sciences Ph.D. students.
- Teaching of general and special pathology and necropsy procedures to veterinary students.
- Teaching of general pathology to comparative biomedical sciences Ph.D. students.
- Teaching of comparative rodent pathology to comparative biomedical sciences Ph.D. students.
- Teaching of comparative oncology to comparative biomedical sciences Ph.D. students.

- Teaching of comparative rodent necropsy to comparative biomedical sciences Ph.D. students.
  - Teaching of pathology to M.Sc. students of parasitology and microbiology.
  - Teaching of pathology to students of medical laboratory sciences.
  - Teaching of principles of working with laboratory animals to medical post graduate students.
  - Teaching of pathophysiology of parasites to Ph.D. students of medical parasitology.
  - Head of Center of Comparative & Experimental Medicine, Shiraz University of Medical Sciences, Shiraz, Iran.
  - **Member of:**
    1. Department of Comparative Biomedical Sciences, School of Advanced Medical Sciences and Technologies, Shiraz University of Medical Sciences, Shiraz, Iran
    2. Diagnostic Laboratory Sciences and Technology Research Center, Shiraz University of Medical Sciences, Shiraz, Iran
    3. Animal Ethics Committee of Shiraz University of Medical Sciences, Shiraz, Iran
  - Establishment of "**The 1<sup>st</sup> national congress on animal models in experimental medicine research**" in Shiraz University of Medical Sciences, Shiraz, Iran
  - Design and implementation of Ph.D. degree of "**Comparative Biomedical Sciences**" for the first time in Shiraz University of Medical Sciences, Shiraz, Iran
  - Design and implementation of "**Reference center for comparative and experimental medicine**" in Shiraz University of Medical Sciences, Shiraz, Iran
  - Establishment of "**The 1<sup>st</sup> fellowship of biomedical engineering**" in Shiraz University of Medical Sciences, Shiraz, Iran
  - Quarterly workshop on the principles of working with laboratory animals
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## Publication in the Journals

Published articles	Number	References
<b>Total</b>	161	[1-161]
<b>1<sup>st</sup> author</b>	50	[5, 7-11, 16, 19, 29, 30, 32, 33, 37, 43, 44, 46-50, 58, 59, 62, 63, 65, 68, 84, 86, 89, 93, 109, 113, 120-126, 133, 134, 141, 143-145, 153, 155, 156, 159, 161]
<b>Corresponding author</b>	40	[5, 7-11, 16, 19, 29, 30, 32, 33, 37, 43, 44, 46-50, 58, 59, 62, 63, 65, 68, 84, 86, 93, 109, 121, 124, 130-132, 137, 143, 144, 154, 158]
<b>Co-author</b>	105	[1-4, 6, 12-15, 17, 18, 20-28, 31, 34-36, 38-42, 45, 51-57, 60, 61, 64, 66, 67, 69-83, 85, 87, 88, 90-92, 94-108, 110-112, 114-119, 127-129, 135, 136, 138-140, 142, 146-152, 157, 160]

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2. Esmail-Nia, K., Hadizadeh-Moalem, S., **Derakhshanfar, A.**, and Motamedi, G., A study on the prevalence of *Linguatula serrata* infestation in small ruminants of Mazandaran province in Babol abattoir. *Pajouhesh-va-Sazandegi*, 2000. 45(1): 94-95.
3. Ghanbarpour Mamghani, R., **Derakhshanfar, A.**, and Akhtar Danesh, B., The bacteriological and histopathological study of arthritis-tenosynovitis in kerman industrial poultry slaughterhouse. *Pajouhesh-va-Sazandegi*, 2001. 52(1): 8-9.

4. Ghanbarpour Mamghani, R., **Derakhshanfar, A.**, Ghorbanpour Najafabadi, M., and Sami, M., A study on caseous lymphadenitis'and its frequency in sheep slaughtered in kerman abattoir. *Iranian Journal of Veterinary Research*, 2002. 3(1): 46-52.
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6. Ghanbarpour Mamghani, R., **Derakhshanfar, A.**, and Akhtar Danesh, B., The bacteriological and histopathological study of broiler dermatitis in kerman industrial slaughterhouse. *Pajouhesh-va-Sazandegi*, 2002. 54(1): 34-35.
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155. **Derakhshanfar, A.**, Kian, M., Dehghan, Z., Valizadeh, A., and Moayedi, J., Comparison of the effects of two methods of euthanasia on post mortem changes in rats: histopathological and molecular findings. *Comparative Clinical Pathology*, 2022: 1-12.
156. **Derakhshanfar, A.**, Rastegari, B., Sharifi, H., Khajeh-Zadeh, H., and Moayedi, J., The effectiveness of antimicrobial photodynamic therapy with prodigiosin against reference strains of Staphylococcus aureus, Escherichia coli, and Pseudomonas aeruginosa. *Lasers in Medical Science*, 2022: 1-8.
157. Gholami, M.H., Dianatpour, M., **Derakhshanfar, A.**, Mirzaei, S., and Entezari, M., Experimental Autoimmune Encephalomyelitis (EAE) as a Potential MS Model. *Archives of Advances in Biosciences*, 2021. 12(3): 27-40.
158. Shaaban, Z., **Derakhshanfar, A.**, Shirazi, M.R.J., Zamiri, M.J., Moayedi, J., Vahedi, M., and Valizadeh, A., The effects of letrozole-induced maternal hyperandrogenism on sexual behaviors, testicular histology, and serum biochemical traits in male

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159. **Derakhshanfar, A.**, Kian, M., Dehghan, Z., Valizadeh, A., and Moayedi, J., Comparison of the effects of two methods of euthanasia on post mortem changes in rats: histopathological and molecular findings. *Comparative Clinical Pathology*, 2022. 31(5): 815-826.
160. Gholami, M.H., **Derakhshanfar, A.**, and Gholami, T., Novel combination therapy for respiratory diseases of small ruminants: Field studies of over 10 years. *Journal of Advanced Veterinary & Animal Research*, 2023. 10(3): 516-521.
161. **Derakhshanfar, A.**, Moayedi, J., Sharifi, H., Hashempour, A., and Valizadeh, A., Different characteristics of multidrug-resistant isolates of *Pseudomonas aeruginosa* in vitro and in vivo conditions. *Biologia*, 2023: 1-12.
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## **Presentations in the international or domestic congresses**

**(Only 29 out of more than 200 presentations are shown, here)**

1. **Derakhshanfar A**, Sharifi S., Roshanzamir M. Study of the effect of vitamin C in the reduction of nephrotoxicity of gentamicin in rats. 1<sup>st</sup> Iranian congress of veterinary basic sciences. 2000, Tehran, Iran.
2. Oloumi MM, **Derakhshanfar A**, Taheri B. The role of omental flap in the healing of experimental tibial defect in dog: A preliminary study. 25<sup>th</sup> WSAVA Congress. 2000, Amsterdam, Netherlands.

3. Oloumi MM, **Derakhshanfar A**, Kheirandish R. Surgical management of a vaginal and perineal fibroma in a dog. The 2<sup>nd</sup> Iranian symposium of veterinary surgery, anesthesiology and radiology. 2000, Shiraz, Iran.
4. Oloumi MM, **Derakhshanfar A**, Hosseinnia H. The role of autogenous greater omentum in experimental tendon healing in the dog: a histopathologic study. 26<sup>th</sup> WSAVA Congress. 2001, Vancouver, Canada.
5. Oloumi MM, **Derakhshanfar A**, Dabbaghian A. Histopathologic and biomechanical evaluations of an Iranian brand silk suture material (SUPA) in suturing rat skin. 26<sup>th</sup> WSAVA Congress. 2001, Vancouver, Canada.
6. **Derakhshanfar A**, Ghanbarpour R, Akhtardanesh B. Staphylococcus aureus as the most important pathogen was isolated from broiler chickens affected by arthritis-tenosynovitis in Kerman industrial slaughterhouse. The 4<sup>th</sup> congress of the microbiology. 2001, Tehran, Iran.
7. **Derakhshanfar A**, Pourjafar M. An epidemic of besnoitiosis in a flock of goats in Iran. 27<sup>th</sup> WVA Congress. 2002, Tunis, Tunisia.
8. Oloumi MM, **Derakhshanfar A**, Tayyebi M. The role of autogenous free greater omental flap in experimental bone healing in rabbit: a preliminary short term histopathologic study. 27<sup>th</sup> WVA Congress. 2002, Tunis, Tunisia.
9. **Derakhshanfar A**, Mashadirafie S. Pathologic findings in cardiomyopathy of a dog. The 3<sup>rd</sup> convention of Iranian veterinary clinicians. 2002, Mashhad, Iran.
10. Oloumi MM, **Derakhshanfar A**. The evaluation of an Iranian traditional herbal mixture in skin wound healing: a histopathologic study. 28<sup>th</sup> WSAVA Congress. 2003, Bangkok, Thailand.

11. **Derakhshanfar A**, Oloumi MM. The role of a fresh oleaster preparation in healing of experimental wounds in calves: a histopathologic study. 5<sup>th</sup> world congress of veterinary dermatology. 2004, Vienna, Austria.
12. Oloumi M.M., **Derakhshanfar A**. The role of a liquorice preparation in healing of experimental wounds in calves: a histopathologic study. 5<sup>th</sup> world congress of veterinary dermatology. 2004, Vienna, Austria.
13. **Derakhshanfar A**. Histopathologic study on nephrotoxicity of flunixin-meglumin in rat. Iranian congress of physiology and pharmacology. 2007, Mashhad, Iran.
14. Mozafari A, **Derakhshanfar A**, Morovati M, Salari S, Arab A. Treatment of parakeratosis in sheep by zinc sulfate blouse. Iranian congress of physiology and pharmacology. 2007, Mashhad, Iran.
15. Mozafari AA, **Derakhshanfar A**, Heydari F, Sheikh Veysi M, Hajizadeh N, Aspira R, Mohseni A. Adverse effects of flunixine meglumine administration in persian donkey. Iranian congress of physiology and pharmacology. 2007, Mashhad, Iran.
16. Salehi M, **Derakhshanfar A**, Alavi SH, Barzegarpour N. A study on microscopic and microscopic lesions of lower respiratory system (trachea and lung) in condemned carcasses in poultry slaughterhouse in city of Kerman. 4<sup>th</sup> national symposium of poultry health and diseases. 2008, Shahrekord, Iran.
17. **Derakhshanfar A**. Experimental study on clinical signs and pathological lesions due to co-utilization of lasalocid and chloramphenicol in broiler chickens. 4<sup>th</sup> national symposium of poultry health and diseases. 2008, Shahrekord, Iran.
18. **Derakhshanfar A**. Experimental study on lesions due to co-utilization of monensin and tiamulin in broiler chickens: clinical and pathological findings. 4<sup>th</sup> national symposium of poultry health and diseases. 2008, Shahrekord, Iran.

19. Hozhabri K, Oloumi MM, **Derakhshanfar A**, Kheirandish R, Azizollahi S. The role of *Salvia officinalis* in preventing ischemia-reperfusion injuries in kidney of rats. First International Congress of Pharmacology and Pharmaceutical Sciences. 2008, Tehran, Iran.
20. Abbasi Rayeni N, **Derakhshanfar A**, Sharififar F, Gharaei R. Study on the effect of *Zataria multiflora* essential oil and BHT in rat: Histopathological findings. First International Congress of Pharmacology and Pharmaceutical Sciences. 2008, Tehran, Iran.
21. **Derakhshanfar A**, Dehghani Beidokhti M, Mehrabani M, Abbasabadi N. Histopathological study on the effect of saffron extract in prevention of Cefazolin-induced nephrotoxicity in rat. First International Congress of Pharmacology and Pharmaceutical Sciences. 2008, Tehran, Iran.
22. Salehi M, **Derakhshanfar A**, Sheibani H. An epidemic pulmonary aspergillosis with fungal myositis in a flock of canary. 4<sup>th</sup> national symposium of poultry health and diseases. 2008, Shahrekord, Iran.
23. Salehi M, **Derakhshanfar A**, Vosough D, Azari O, Sheibani H. Fibrolipoma in a rooster: ultrasonography and pathological findings (first report). 4<sup>th</sup> National symposium of poultry health and diseases. 2008, Shahrekord, Iran.
24. Salehi M, **Derakhshanfar A**, Damani A, Tafreshi M. Histopathologic study on tumors in layer hens in Kerman city Simorgh Company. 4<sup>th</sup> national symposium of poultry health and diseases. 2008, Shahrekord, Iran.
25. Masoumi Ardakani Y, Abbasnezhad M, **Derakhshanfar A**, Mostafavi A, Shamspour T, Esmaeilpour K. The effect of *matricaria recutita* aqueous extract on acetic acid-induced ulcerative colitis in rats. Iranian Congress of Physiology and Pharmacology. 2009, Mashhad, Iran.

26. Pourjafar M, Badiei K, **Derakhshanfar A**. The incidence and type of equine skin tumors in south Iran. The 6<sup>th</sup> international colloquium on working equips. 2010, New Delhi, India.
  27. Mozaffari AA, **Derakhshanfar A**, Imani M. Congenital goiter in a Rayeni goat kid. The 1<sup>st</sup> international congress of large animal practitioners. 2011, Tehran, Iran.
  28. Mozaffari AA, **Derakhshanfar A**, Ghahramani M. A large abnormal mass of granulation tissue in heart of an Iranian cross-breed cattle. The 1<sup>st</sup> international congress of large animal practitioners. 2011, Tehran, Iran.
  29. **Derakhshanfar A**. Veterinary pathology; reality or ghost? 10<sup>th</sup> Convention of Iranian Veterinary Clinicians in the honor of Prof. Mohammad Ali Rad. 2018, Kerman, Iran.
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### **Awards and Honors**

1. Distinguished researcher of the faculty (7 times)
  2. Distinguished researcher of the university (1 time)
  3. Distinguished researcher of the Kerman province (1 time)
  4. National distinguished researcher (2008)
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### **Books**

1. Veterinary clinical diagnosis (Translation), 2001.
2. A review on brucellosis, 2006.
3. Pathologic diagnosis of the tumors in veterinary medicine, 2010.
4. Pathology of birds, 2012.
5. Comparative pathology of parasitic infections, 2016.

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## **Research proposals**

1. Evaluation of the Embryonic Pathological Lesions and Efficacy of Amantadine against H9N2 Influenza Virus Using Chicken Embryo Model.
2. Utilization of a chick embryo model for evaluation the lysine and nano-lysine effects on weight, growth and various organs of the fetus.
3. Evaluation the toxicopathological lesions of *Berberis vulgaris* using a chicken embryonic model.
4. Embryonic toxico-pathological effects of *Origanum vulgare*: evaluation of the gross and histopathological lesions using a chick embryo model.
5. Utilization of a chick embryo model for evaluation the effects of *Teucrium polium* extract on the fetus and amniotic fluid.
6. Assessing the risk of Iranian endemic influenza virus (H9N2 subtype) for humans and utilization of a chick embryo model for evaluation the histopathological effects of this subtype antigens on the fetus.
7. Embryonic vascular toxicity of *Calotropis procera* Aiton: evaluation the early anti-vasculogenic property and molecular aspects using a chick's extra-embryonic membrane model.
8. Utilization of the chicken embryo membrane model for evaluation the embryonic vascular toxicity of *Dorema ammoniacum*
9. Evaluation of the toxicopathological lesions of *Calotropis procera* using a chick embryonic model.
10. Utilization of a chick embryo model for evaluation the side and teratogenic effects of *Dorema ammoniacum* on the fetus.

11. The Role of Iranian Medicinal Plants in Experimental Surgical Skin Wound Healing: an Integrative Review.
12. A study of the effects of alcoholic and aqueous extracts of *Biarum bovei* on histopathology and laboratory diagnostic of miR-122 in liver of the rat.
13. A study on histopathology and laboratory diagnostic of miR-122 level during post mortem changes and also due to different methods of euthanasia in the liver of rat.
14. A study on the effects of *Perovskia abrotanoides karel* on experimental skin burn in male rat: in-vivo and in-vitro findings.
15. Investigation of human skin fibroblast culturing and proliferation on chick embryo chorioallantoic membrane.
16. A study on histopathological changes and gene expression of virulence genes *exoS*, *exoU*, *pil-B*, *nan 1* and non-virulence genes *AmpC* and *rpoD* of *Pseudomonas aeruginosa* MDR and non-MDR strains in experimental skin wound in rat.
17. Molecular study on the effects of *Perovskia karel* (Brazambal) on experimental skin burn (Grade III) in male rat.
18. The efficacy of *Mycobacterium tuberculosis* on rheumatoid arthritis induction in rat: Histopathological study.
19. Histopathological study of the vital organs after induction of myocardial infarction using ligation of lateral branch of the left coronary artery in rabbit.
20. Evaluation of the effects of prenatal induction of polycystic ovary syndrome on hormonal and pathologic characteristics of female rat tissues.
21. A new method for  $\text{NH}_4\text{Cl}$ -induced ulcerative colitis in rat model.
22. Assessment of changes in serum level of miR-122 in Syrian mice after induction of cutaneous and visceral leishmaniasis and treatment with Amphotericin B.



23. Evaluation of the effect of mixture of *Abrus precatorius*, *Falcaria vulgaris* and *Azadiracta indica* on fertility in male and female rat.
24. A comparison study of wound healing process of experimental burn by heated metal and scalding in rat model: histopathologic findings.
25. A study on the effect of cabergoline on fetal development in chick embryo model; angiogenic activity, pathological findings, and assessment of serum prolactin.
26. Analysis of the quantity and quality of in-vivo experimental research in medical sciences in Iran: A systematic review.
27. Antimicrobial photodynamic effects of laser and prodigiosin pigment on the growth of the standard strains of *Staphylococcus aureus* and *Pseudomonas aeruginosa*
28. Antimicrobial photodynamic effects of laser and prodigiosin pigment on experimental burn healing in rat: Histopathological and bacteriological findings.
29. Health problems of Coronavirus transmission from animals (laboratory, wild, farm, pet, birds, and aquatic) to humans: A systematic review.
30. Evaluation of radioprotective effect of arbutin on mice spermatogenesis process against Megavoltage x-ray.
31. Deciphering the similarities and disparities of molecular mechanisms in host response to HCoV-229E and SARS-CoV-2 in lung.
32. Analysis of the Generation of Transgenic Animals Using Gene Transfer to Sperm and Testis: A Systematic Review.
33. Investigating the effects of cabazitaxel nanomedicine on rats with glioblastoma induced with C6 cells: evaluation of behavioral, inflammatory, oxidative stress and pathology indicators.
34. Optimization of GFP gene transfer using lentivirus vectors to C57 mice sperm in in vitro and in vivo condition: Molecular and pathological findings.