**Dr. Hadi Mansouri**

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# Education

* BS: B.Sc in Biology from National University of Iran (1970-1974)
* MSc: M.Sc in Veterinary Science (Anatomy) from Washington State University, U.S.A (1978-1980).
* PhD: Ph.D. in Histology and Cell Biology from Department of Biomedical Sciences, University of Sheffield, UK (1985-1989).
* Postdoc.in College of Veterinary Medicine, Washington State University, USA (2001-2002).
* Member of American Association of Veterinary Anatomists.
* Member of Editorial Board of the Journal of Veterinary Research, University of Tehran, Tehran, Iran.
* Member of Editorial Board of the Journal of Research in Veterinary Science and Medicine. Shiraz, Iran.

# Professional Highlights in Iran and USA

**In Iran:**

* Head of the Department of Veterinary Basic Sciences, Shiraz University (1980-1985 and 1989-1994).
* Vice-Chancellor of Research in College of Veterinary Medicine, Shiraz University (1991-1993).
* Head of Shiraz University Press (1998-2001).
* Member of Consulting Committee of Shiraz University (1997-2001).
* Head of the Center of Electron Microscope in College of Veterinary Medicine, Shiraz University (2002 – 2008).
* Chairman and Supervisor of Postgraduate (D.V.M) Thesis-30 Students.
* Chairman and Supervisor of Ph.D. Thesis- 8 Students.
* Referee of Postgraduate (D.V.M) Thesis-40 Students.
* Referee of Ph.D. Thesis-10 Students.
* Referee of 5 Published Scientific Books in Persian.
* Referee of 30 Research Proposals.
* External Examiner of D.V.M. and Ph.D. Students.
* Participated as a Referee in the Promotion of 10 Staff Members to the Post of Assistant and Associated Professor.
* Participated in Several Committees Dealing with the Teaching and Research within the School and University.

# In USA

* Member of Curriculum Committee in Carlson College of Veterinary Medicine in Oregon State University from 2010 to 2014 and 2015 to 2019. USA
* Member of Research Committee from 2015 to 2019. USA
* Member of Research Communication Committee from 2015 to 2019. USA
* Member of Committee of a Postgraduate Student in Carlson College of Veterinary Medicine in Oregon State University from 2010 to 2013. USA
* Coordinator of Microscopic Anatomy VMB 715 in Carlson College of Veterinary Medicine in Oregon State University from 2011- Continue. USA
* Member of Student Progress Committee from 2019- Continue
* Reviewer and proof of reading all sections of the first edition of “**Guide to the Dissection of the Horse and Ruminants**” in 2015 and corrections of the second edition in 2016 and third edition in 2017. The guide is prepared by Drs. Terri Clark, Louise C. Abbott, and Lynn M. Ruoff in 2015. USA

# Experience

* **Teaching Experience**

As **Lecturer** in the department of veterinary basic sciences, University of Shiraz, Iran (1980-1985) in charge of teaching gross anatomy and histology to D.V.M. students. At the same time, I have also taught histology and cell biology to undergraduate medical and biological science students. As an **Assistant Professor** (1989-1996) **Associate Professor** (1996-2003) and **Professor** (from February 2003), in the department of veterinary basic sciences, University of Shiraz in charge of teaching:

1. Basic Anatomy to D.V.M students
2. Comparative Anatomy to D.V.M. students
3. Histology to D.V.M., Dental and Medical students
4. Histotechniques to D.V.M. and postgraduate M.S. and Ph.D students
5. Electron Microscopy to D.V.M.and postgraduate M.S. and Ph.D students
6. Avian Histology to D.V.M. and Ph.D students
7. Advance Histology I to D.V.M. and postgraduate M.S. and Ph.D students
8. Advance Histology II to D.V.M. and postgraduate M.S. and Ph.D students
9. Comparative Gross Anatomy to D.V.M.and postgraduate M.S. and Ph.D students
10. Anatomical Techniques to D.V.M and Ph.D students
11. Applied Anatomy to D.V.M and resident students

# In USA

Macroscopic and Microscopic Anatomy to D.V.M students in Carlson College of Veterinary Medicine in Oregon State University. USA

I have 40 years of experience in teaching mainly gross anatomy, histology and electron microscopy to undergraduate and postgraduate students. In addition to that I have also taught anatomical techniques and histotechnique courses using latex and histochemical staining and different types of computer based digital optical microscopes. I have also used different advanced optical microscopes during my M.Sc, Ph.D and sabbatical leave in Washington State University and University of Sheffield, UK. My experience in microscopy, particularly in transmission and scanning electron microscopes started from 1978 in WSU. In 1978 I had a postgraduate course in electron microscopy using different types of tissue processing and EM. My supervisor was Dr.J.W.Newbrey, an outstanding teacher (Bank's veterinary histology book was dedicated to him) specialized in anatomy and electron microscopy. I also had a 4-credit EM course with Prof. Cohn who introduced me to different types of tissue processing and EM in WSU. Therefore if you look at my CV you will notice that I have done most of my teaching and research subjects in gross and microscopic anatomy. My experience in general includes mainly dissection of domestic animals for teaching and preparing the gross specimens for anatomical museum, and also optical, scanning, TEM, histochemical, immunocytochemical and morphometric studies.

# Research Experience

In general in Iran, my laboratory was engaged in macroscopic, microscopic and electron microscopic studies. Our main research interests were the observations on the functional state of salivary glands. We used beta sympathomimetic drug, isoprenaline to induce new secretory proteins. Moreover, histochemical and immunocytochemical methods were used to localize these proteins. In addition, our works focused on the developmental changes in the structure of pancreas in prenatal and postnatal animals using morphological, immunocytochemical, and morphometric methods. It is also necessary to say that in my laboratory we looked at the developmental changes of neurons and neuroglial cells within the spinal cord in pre and post-natal animals. Various histochemical and immunocytochemical approaches were used to determine how these

developmental changes were happened. I have also worked in professor Ulibarri's laboratory during 2001-2002 in School of Veterinary Medicine in Washington State University. We looked at the role of testosterone on the developmental changes within the lumbosacral and perineal areas of gerbil in both sexes. I am still interested in doing more research in this subject particularly using immunocytochemical methods in order to understand how gonadal steroids affect the developmental process of central nervous system. In addition, I have also studied the developmental changes in different organs and tissues of ostrich using macroscopic, microscopic and morphometric studies.

I started my faculty position in OSU from January 2009 and I am involve in teaching both macroscopic and microscopic anatomy. I have been the principal investigator of a departmental funded research entitled, “Electron microscopic study of spinal cord injury and repair”. I am also investigator of another new departmental funded research entitled, “Detailed macroscopic, microscopic and ultrastructural study of the alpaca pancreas” which has been completed in 2017.

# List of Publications:

**Papers in Journals and Conferences**

1. Mansouri, S.H., and Newbrey, J.W. (1980). Acid phosphatase localization in macrophage bone resorption. Anat. Hist. Embry. 9(1), 94(En).
2. Mansouri, S.H., Divecha, N., Mcdonald, C.J. and Cope, G.H. (1987). Immunocytochemical localization of proline-rich proteins in the parotid glands of the normal mouse. J.of Anat. 155; 233-234.
3. Divecha, N., Peat, D., Mansouri, S.H., Cope, G.H., and Mcdonald, C.J. (1988). Processing of tissue proline-rich proteins after secretion from mouse parotid glands. Bioch. Soci. Trans. 16: 798-799.
4. Divecha, N., Mansouri, S.H., Cope, G.H. and Mcdonald, C.J. (1988). Processing of basic salivary proline-rich proteins (PRPs) after secretion from mouse parotid glands. Bioch. Soci. Trans. 16:698-699.
5. Divecha, N., Mansouri, S.H., Peat, D., Cope, G.H., and Partridge, L. (1989). Isoprenaline- induced and constitutive members of a proline-rich protein sub-group from mouse parotid glands studies with monoclonal antibody NAL1. J. of Molecul. Endocrin. 3: 7-14.
6. Mansouri, S.H., Cope, G.H., Divecha, N. and Mcdonald, C.J. (1992). Electron microscopic immunocytochemical localization of proline rich proteins in mouse parotid salivary glands. Histoch. J. 24:737-746.
7. Mansouri, S.H., and Atri, A.(1994). Ultrastructure of parotid and mandibular glands of camel (camelus dromedarius). J. Appl. Anim. Res. 6:131-141.
8. Mansouri, S.H., and Shahriari, A., (1995). Macroscopic, microscopic, and histochemical studies of major salivary glands in camel (Camelus Dromedarius). J. of. Faculty of Vet. Med. Univ. of. Teh. No.3 and 4, 49: 6380.
9. Mansouri, S.H., and Akbarian, M.R. (1995). Morphological and protein changes in parotid and submandibular glands of guinea pigs by isoprenaline and dietary tannic acid. Third IUBMBcoconference,Molecular Recognition. Singapore.
10. Mansouri, S.H., and Motamed, A. (1995). Immunocytochemical localization of proline-rich proteins in isoprenaline-treated rat parotid salivary gland. The third iranian congress of immunology and allergy. Shiraz, Iran.
11. Mansouri, S.H. and Motamed, A. (1995). Comparative studies on the major salivary glands changes in isoprenaline treated rat and sheep. XXV Congress of the World Veterinary Association. Yokohama. Japan.
12. Mansouri, S.H., and Motamed, A. (1996). Immunocytochemical localization of proline-rich proteins in isoprenaline-treated rat parotid salivary gland. J.Sci. I.R. Iran, 7: No2, 77-82.
13. Mansouri, S.H., Saeb, M. and Akbarian, M. (1996). Morphological and protein changes in parotid and submandibular glands of guinea pig by isoprenaline. Pajouhesh and Sazandegi. No 29, Winter 1374. 76-81.
14. Mansouri, S.H., (1996). Oesophageal accumulation of tannin-binding proline-rich proteins after isoprenaline treatment of rats: Implication for oesophageal cancer and protection of lower digestive tract. The 9th international congress of geographic medicine (Oncology). Shiraz, Iran.
15. Mansouri, S.H. and Mehrabi, J.(1998). Morphologica and histochemical studies of major salivary glands of buffalo at light and electron microscopic

level. The First National Congress on Buffalo Diseases in Iran. 24-26 Feb, Ahwaz, Iran.

1. Mansouri, S.H. and Mohammadpour, A.A. (1999). Effect of isoprenaline on rabbit salivary glands at the electron microscopic level.

Ind.J.Anim.Sci.,69:667-671.

1. Saeb, M. Mansouri, S.H. and Ghahramani, M.M. (1999). Purification of Polyclonal antibody induced against proline-rich proteins (PRPs) and subcellular localization of PRPs in rat parotid salivary glands.J of the Faculty of Vet Med.Uni of Ahwaz,1(2)pp:11-29.
2. Mansouri, S.H. and Mohammadpour. A.A. (1999).Histomorphological and histochemical changes of major salivary glands of female guinea pig under the effect of isoprenaline.J of Pajouhesh and Sazandegi #40,41,42 pp:140-145.
3. Mohammadpour,A.A and Mansouri,S.H.(2000).Histomorphological and histochemical changes of rabbit parotid gland under the effect of isoprenaline at light and electron microscope.J of the Faculty of Vet.Med.Uni.of Tehran,55(4),pp.39-43
4. Mansouri,S.H.and Mehrabi,J.(2000).Ultrastructural observations on buffalo parotid gland.J.Appl.Anim.Res.18:215-220.
5. Mohammadpour,A.A.and Mansouri,S.H.(2000).Effects of tannin rich foods on morphology of salivery glands and body weight in rabbit.First Iranian Congress of Vet.Basic Sci,Uni.of Tehran.
6. Mansouri,S.H.and Yousefi,Sh.(2000).Comparative morphological and histochemical changes in major salivery glands of mouse before and after dobutamine and terbutaline treatment.First Iranian Congress of Vet.Basic Sci,Uni.of Tehran.
7. Mansouri, S.H. and Mohammadpour, A.A. (2001). A study on the effects of isoprenaline on guinea pig salivary glands. Iranian J of Vet Res,Uni of Shiraz,2(1),pp86-101.
8. Mansouri,S.H.and Mehrabi,J(2001).Ultrastructural aspects of buffalo submandibular glands.J.Appl.Anim.Res.19:225-232.
9. Mansouri,S.H.,Razmi,N. and Sadeghi M.J.(2001).Comparative histomorphological, histochemical and biochemical studies of parotid salivery gland in sheep and goat.J.of Pajouhesh and Sazandegi,#51,pp:79-83.
10. Ghazi,S.R.,Mansouri,S.H.,and Ay,J.(2001).Developmental variations of the spinal cord and its termination during pre-and postnatal life in the male dog.Iranian J.of Vet.Res.,Uni.of Shiraz,2(1).pp:40-48.
11. Mansouri,S.H.,Ghazi,S.R. and Monsefi,M.(2001).Histomorphometric study of the various segments of the spinal cord in prenatal and postnatal ages of the male cat.Iranian J.of Vet. Res.1(2),pp:105-117.
12. Mansouri,S.H.,Ghazi,S.R.and Ay,J.(2001).Histomorphometric study of the various segments of the spinal cord in prenatal and postnatat ages of the male dog.Iranian J.of Vet.Res.3(2).
13. Mansouri,S.H.,Cope,G.H.,Divecha,N.,and Mcdonald,C.J,(2002). Immunocytochemical localization of proline-rich proteins in the isoprenaline-treated mouse salivary glands. Histoch. J. 26:700-715.
14. Mansouri,S.H.,Ghazi,S.R.and Monsefi,M.(2002).A study on the developmental changes of astrocytes processes in gray matter of the spinal cord in male cat.Iranian J.of Vet.Res.4(1),pp:4-12
15. Ghazi,S.R.,Mansouri,S.H.and Monsefi,M(2002).A study on the developmental changes of allometric growth rate of the spinal cord in preand postnatal life in the male cat.Iranian J.of Vet.Res.4(1),pp:29-36
16. Mansouri,S.H.,Ghazi,S.R. and Ay,J.(2002).Histomorphometric study of the various segments of the spinal cord in prenatal and postnatal ages of the male dog.Iranian J.of Vet.Res.3(2)pp:141-149.
17. Ay,J.,Mansouri,S.H. and Ghazi,S.R.(2002).The process of evolutionary growth of glial fibrillary acidic protein(GFAP)in astrocytes of the gray matter in 8th.cervical and 4th.thoracic spinal segments in prenatal and postnatal native male dog.Presented in 15th.international congress of geographic medicine and 5th.national congress of medical education.Shiraz,Iran.Dec.9-11.
18. Mansouri,S.H.,Siegford,M.S.and Ulibarri,C.(2003).Early postnatal response of the spinal nucleus of the bulbocavernosus and target muscles to testosterone in male gerbils. J. of Developmental Brain Res.142(2),pp:129-139.
19. Siegford,M.S. Mansouri,S.H.and Ulibarri,C.(2003).Normal ontogeny of perineal muscles and testosterone levels in Mongolian gerbils,response to testosterone in developing females. J.of Anat.Rec.Part A 275A:997-1008.
20. Mansouri,S.H.,Ghazi,S.R.and Ay,J.(2003).Evolutionary growth process of Nissl bodies in spinal neurons of male dog in different age groups.Presented in 5th.international congress of Iranian anatomical sciences.Tehran,Iran
21. Mansouri,S.H.,Ghazi,S.R. and Monsefi,M.(2003).A study on Nissl bodies within motor neurons of the spinal cord in prenatal and postnatal cats.Iranian J.of Med.Res.1(4)pp:1-9
22. Mansouri,S.H.and Sadeghi,M.J.(2004).Comparative histomorphological and histochemical studies of submandibular and sublingual salivary glands in sheep and goat.Iranian J.of Vet.Res.5(1)pp:86-95.
23. Ghazi,S.R.,Mansouri,S.H. and Monsefi,M.(2004).Study on the terminal portion of spinal cord in different age groups of male cat.J.Fac.Vet.Med.59(2)pp:199-200.
24. Mansouri,S.H.,Ghazi,S.R.,and Ay,J.(2005).Investigation on the morphologic and morphometric changes in perikaryon and nucleus of spinal neuron during prenatal and postnatal life of male dogs.Iranian J. of Vet.Res.6(2).
25. Mansouri,S.H.,Tadjalli,M.and Mobini,B.(2005).Histomorphometrical study on pancreas in pre and postnatal Mehraban male sheep.Iranian J.of Vet.Res.6(2).
26. Monsefi,M.Mansouri,S.H.and Ghazi,S.R.(2005).The changes of diameter of perikaryon and nucleus of the motor neurons and number of glial cells of the spinal cord in prenatal and postnatal male cat.Iranian J.of Biol.17(3).pp.333-345.
27. Mansouri,S.H.,Gholami,S.and Mousavi Orimi,G.(2006).Histomorphometrical study of pancreas in Mehraban female sheep.Iranian J.of Vet.Res.7(1).
28. Mosavi Orimi,GH.,Mansouri,S.H. and Gholami,S.(2007).Histomorphometrical observations on the developing pancreas of female sheep.J.Pajouhesh and Sazandegi,72,pp:36-43
29. Ay,J.Mansouri,S.H.and Ghazi,S.R.(2007).Study of the number of neurons and the density of Nissl bodies in spinal neurons in the prenatal and postnatal male dog.Iranian J. of Vet. Res.8(4)300-310.
30. Mobini,B.,Tadjalli,M.and Mansouri,S.H.(2008).Histomorphologic and morphometric study of pancreas in Mehraban male sheep.J.Vet.Res.62,6:351-354.
31. Rahmanifar,F.,Ghazi,S.R. and Mansouri,S.H.(2008).Study on comparative changes in allometric growth rate of spinal cord in relation to the vertebral column in chick and adult male ostrich(Struthio camelus).Iranian J.of Vet. Res.9(4)340-348.
32. Rahmanifar,F.,Mansouri,S.H.and Ghazi,S.R.(2008).Histomorphometric study of the spinal cord segments in chick and adult male ostrich(Struthio camelus).Iranian J. of Vet. Res.9(4),336-340.
33. Ai,J.,Mansouri,S.H.and Ghazi,S.R.(2008).Histometrical study on the numbers of astrocyte and density of intermediate filaments in the various segments of the spinal cord in pre and postnatal native male dog.Iranian J. of Vet. Res.12(1),220-229.
34. Tadjalli,M.,Mansouri,S.H. and Poostpasand,A.(2008).Gross anatomy of the oropharyngeal cavity in ostrich(Struthio camelus). Iranian J.of Vet.Res.9 (4), 316-323.
35. Kazemi, S., Mansouri, S.H. and Tabatabaei Naeini, A.T.(2009). Histomorphological and angiogenesis observations in the heart of the male puppy following ligation of the paraconal artery. J. Appl. Anim. Res. 36, 77- 80.
36. Kazemi, S., Mansouri, S.H. and Tabatabaei, A.T. (2010). A study of angiogenesis on dog heart wall. Scientific- Research Iranian Veterinary Journal. 5(4(25)): 69-72.
37. Mosavi, Gh., Mansouri, S.H. and Gholami, S. (2010). Pre and postnatal macroscopic studies of pancreas in Mehraban femal sheep. First of veterinary emerging and remerging congress of Iran. Babel town, Oct.4-6
38. Poostpasand, A., Tadjalli, M., Mansouri, H. (2011). Microscopic study on the tongue of male ostrich. European J. Biological Sceinces 2(2), 24-31
39. Poostpasand, A., Tadjalli, M., Mansouri, H. (2011). Macroscopic and microscopic study of larynx in the male ostrich. Global Veterinaria 5(2), 109-115
40. Kazemi, S, Baltzer, W, Mata, J, Mansouri, H and Schilke, L. The effect of IKVAV- Peptide on spinal cord regeneration following spinal cord injury presented in the Society for Neuroscience meeting in New Orleans, Louisiana, in Fall 2012.
41. Kazemi, S, Baltzer, W, Mata, J, Mansouri, H and Schilke, L. A cell spanning IKVAV expressing peptide for treatment of spinal cord injury presented in the CGRB, Fall Conference, Corvallis, Oregon, Sept. 21, 2012.
42. Kazemi, S, Baltzer, W, Mata, J, Mansouri, H and Schilke, L.(2013) A cell spanning IKVAV expressing peptide for treatment of spinal cord injury.POLARIS 1st Workshop, October 7-9, 2013, Porto, Portugal.
43. Kazemi, S, Baltzer, W, Mata, J, Mansouri, H and Schilke, L.(2013). A cell spanning IKVAV expressing peptide for treatment of spinal cord injury.TERM STEM, October 10-13, Porto, Portugal.
44. Kazemi, S, Baltzer, W, Schilke, K, Mansouri, H, Mata, J, (2015). IKVAV- linked cell membrane- spanning peptide treatment induces neuronal reactivation following spinal cord injury. Future Science,1 (4), FSO81.
45. Kazemi, S, Baltzer, W, Mansouri, H.,Schilke, K, Mata,J. (2016). IKVAV containing cell membrane penetrating peptide treatment induces changes in cellular morphology after spinal cord injury. Journal of Modern Applied Sciences. Vol. 10, No. 11
46. Mansouri, H and Clark, T. (2020). Detailed macroscopic, microscopic and ultrastructural study of the alpaca pancreas. Submitted for publication.

# Books:

Three scientific books, one about anatomy, histology and physiology of birds, the second book, about application of electron microscopy are prepared by me and one of my colleagues. The third book, human histology is also prepared by two of my colleagues and I.

# Presentation in Conferences:

1. American Association of Veterinary Anatomists (1979) in Washington State University.U.S.A.
2. Gold Labelled Groups (Immunohistochemistry and Immunocytochemistry), (1986), London , U.k.
3. 10th International Conference on Oral Biology (1986), in Amsterdam.
4. Anatomical Society of Great Britain and Ireland (1987), in Medical Sciences Institute, University of Dundee , U.K.
5. 6th International Conference of Plastination (1992), Ontario , Canada .
6. 3rd IUBMB Conference, Molecular Recognition (1995), Singapore .
7. XXV Congress of the World Veterinary Association (1995), Yokohama , Japan
8. 8th International Congress of Geographic Medicine and 3rd Iranian Congress of Immunology and Allergy (1995), Iran .
9. 9th International Congress of Geographic Medicine (Oncology), (1996), Iran.

10. 1st National Congress on Buffalo Disease (1998), Iran .

11. 1st.Iranian Congress of Veterinary Basic Sciences(2000), Iran.

12. Annual Meeting of Neuroscience (2002). Florida, U.S.A.

13. 38th Annual Conference of the Anatomical Society of Southern Africa, 2023, April 2008.

14. International congress on veterinary anatomy. India, Lucknow. 4th. Nov,2009

15. 10th congress of European association of clinical anatomy. Istanbull,5th,2009

1. Anatomical congress, 9-11 July, Prague, 2010.
2. Iranian anatomy congress. 25-27 of May 2010.

# Honors and Awards:

* Distinguished Lecturer of the Shiraz University in 1991
* Distinguished and outstanding teacher evaluated by the College of Veterinary
* Medicine, Shiraz University for 28 years.

Recipient of excellence in teaching award in **2013, 2014, 2015, 2016, 2017, 2018** and **distinction in** **teaching award** in **2019** and **2020** at the OSU, Carlson College of Veterinary Medicine.