

Date Prepared: 02 December 2018

Name: Siavash

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CONCISE CV

EDUCATION AND MAJOR TRAINING

Doctorate Degree in Veterinary Surgery (DVSc) with High Distinction GPA. Urmia University, Urmia, Iran. September 2007 – January 2012

Veterinary Surgery Board Certification; Comprehensive Final Examination of the Specialised Doctorate Degree in Veterinary Surgery. May 2010

Professional Doctorate Degree in Veterinary Medicine (DVM) with High Distinction GPA. Urmia University, Urmia, Iran. September 2001- July 2007

Certified Professional Manager (Distant Education). The Institute of Certified Professional Managers, James Madison University, Harrisonburg, USA. August 2016 – May 2018

Transforming Teaching for Learning (formerly known as Foundations of University Learning and Teaching), The University of Western Australia, Crawley, Australia. November 2016-June 2017

Three modules covering:

- *The history of higher education learning,*
 - *Design of an active and interactive learning programme,*
 - *Delivery, feedback and assessment of learning programs.*
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THESES

Doctorate Degree Thesis:

January 2012

Effect of Intra-abdominal Hyperpressure -Generated by Peritoneal Dialysis Solution- on the Haemorrhage Resulted by Severe Experimental Liver Injury in Rabbits, University of Urmia, Iran. Defended with **High Distinction** (Grade: 19.71/20) and ranked as **Excellent**.

Professional Doctorate Degree Thesis:

July 2007

Clinical Evaluation of Wound Healing Effects of *Senecio vernalis* Plant Extract in Rats, University of Urmia, Iran. Defended with **High Distinction** (Grade: 19.97/20) and ranked as **Excellent**.

SELECTED WORK EXPERIENCE (LABORATORY ANIMAL SCIENCE)

Consultant (Laboratory Animal Matters) to the National Ethics Committee for Biomedical Research, Deputy of Research and Technology, The Iranian Ministry of Health and Medical Education; Tehran, Iran.

April 2018 - now

Manager (Level 8, Step 4), Preclinical Intensive Care Research Unit (PICRU), School of Human Sciences, **The University of Western Australia**, Crawley, Australia.

July 2014 – July 2017

Director, Biology Unit, Iranian Blood Research and Fractionation Holding Company (IBRF).

May 2013 to April 2014

SELECTED RESEARCH GRANTS AND/OR COLLABORATIONS

Chief Investigator, **Designing Required Standardised Forms for the Regulation of the Care and Use of Laboratory Animals**. National Ethics Committee for Biomedical Research, Deputy of Research and Technology, The Iranian Ministry of Health and Medical Education; Tehran, Iran.

May 2018 to now

Chief Investigator, **Laboratory Animal Research Observatory for Biomedical Research in Iran**. National Ethics Committee for Biomedical Research, Deputy of Research and Technology, The Iranian Ministry of Health and Medical Education; Tehran, Iran.

April-May 2018

Co-Investigator, **Intrauterine ureaplasma as a determinant of abnormal airway function in an ovine developmental model.** April 2017 to July 2017
School of Human Sciences, The University of Western Australia, Australia. NHMRC Funded.

International Collaboration: Main Collaborator, **Development of standard operating procedures (SOPs) for using common laboratory animal species in biomedical research;** Pasteur Institute*, Tehran, Iran. Research Project Code: 903. July 2016 to now

Associate Investigator, **Volume Targeting During High-Frequency Oscillatory Ventilation to Enhance Lung Protective Ventilation;** Women and Infants Research Foundation, Western Australia, Australia. July 2016 to August 2017

SELECTED CODES/GUIDELINES DEVELOPMENT

Co-developer of the first version of **The Laboratory Animal Facilities' Self-Declaration form;** National Ethics Committee for Biomedical Research; Tehran, Iran. June – August 2018

Chief Investigator, **Development of the *Guideline for the Care and Use of Animals for Scientific Purposes*;** National Ethics Committee for Biomedical Research, Deputy of Research and Technology, The Iranian Ministry of Health and Medical Education; Tehran, Iran. June 2014- June 2016

SELECTED ARTICLES (CONFERENCES)

Siavash Ahmadi-Noorbakhsh. **Standardisation of the care and use of laboratory animals in the country (Oral Presentation).** *The First National Ethics Congress in Iranian Biomedical Research*, Guilan, Iran. November 2018

Jonathan W Davis, Tonika Parks, Siavash Ahmadi-Noorbakhsh, Paris C Papagianis, Andy W Gill, Amy L Wooldridge, Nathanael J Yates, J Jane Pillow. **Effects of high frequency oscillation with and without volume guarantee on ventilatory requirements in preterm lambs.** *The 7th European Academy of Paediatric Societies Congress (EAPS 2018)*, Paris, France. Accepted (for presentation on October-November 2018)

Amanda Vrselja, J Jane Pillow, Siavash Ahmadi-Noorbakhsh, M Jane Black. **High dose postnatal steroid treatment stimulates cardiomyocyte proliferation in preterm lambs.** *45th Meeting of the Fetal and Neonatal Physiological Society*, Maastricht, The Netherlands. June 2018

E Williams, Nathanael J Yates, Y Xu, **Siavash Ahmadi-Noorbakhsh**, Jennifer Rodger, Peter B Noble, J Jane Pillow, Dominique Blache. **Preterm lamb brain inflammation and injury following postnatal dexamethasone therapy.** *Pediatric Academic Society*, Toronto, Canada. May 2018

Amy L Wooldridge, Ella Edward, Dominique Blache, **Siavash Ahmadi-Noorbakhsh**, J Jane Pillow. **Postnatal influences on gastrointestinal development and maturation in lipopolysaccharide-exposed preterm lambs.** *Developmental Origins of Health and Disease Society of Australia and New Zealand (DOHaD ANZ)*, Sydney, Australia. July 2018

Veena Kurup, Peter B Noble, **Siavash Ahmadi-Noorbakhsh**, Luke Berry, Amy Wooldridge, J Jane Pillow. **Long-term effects of low dose dexamethasone and ventilation therapies on alveolar development in preterm lambs.** *Fetal and Neonatal Workshop of Australia and New Zealand*, Queenstown, New Zealand. March 2018

SELECTED ARTICLES (PEER-REVIEWED JOURNALS)

Siavash Ahmadi-Noorbakhsh. Sample size calculation for animal studies -with emphasis on the ethical principles of reduction of animal use. *Research in Medicine* (in press). Accepted July 2018

Siavash Ahmadi-Noorbakhsh, Esmat Mirabzadeh Ardakani, Seyed Mohammadali Mirsanei, Seyed Javid Aldavood. **Necessities for ethical supervision on laboratory animal research in Iran.** *Daneshvar Medicine –Scientific Research Journal of Shahed Medical University*, 2016, 23 (123): 69-83. July 2016

Siavash Ahmadi-Noorbakhsh, Esmat Mirabzadeh Ardakani, Seyed Javid Aldavood, Mina Mobasher, Ladannaz Zahedi, Ramin Mazaheri Nezhad Fard. **A Comprehensive Guide for the Care and Use of Laboratory Animals.** *Daneshvar Medicine – Scientific Research Journal of Shahed Medical University*, 2015, 22 (118): 1-11. September 2015

Siavash Ahmadi-Noorbakhsh, Esmat Mirabzadeh-Ardakani. **Blood Sampling from Laboratory Rabbits.** *Journal of Isfahan Medical School*, 2015, 33 (338): 917-923. August 2015

Manu LNG Malbrain, Inneke De Laet, Jan J De Waele, Michael Sugrue, Alexander Schachtrupp, Juan Duchesne, Gabrielle Van Ramshorst, Bart De Keulenaer, Andrew W. Kirkpatrick, **Siavash Ahmadi Noorbakhsh**, Jan Mulier, Paolo Pelosi, Rao Ivatury, Francisco Pracca, Marcelo David, Derek J Roberts. **The role of abdominal compliance, the neglected parameter in critically ill** December 2014

patients - a consensus review of 16. Part 2: measurement techniques and management recommendations. *Anaesthesiology and Intensive Therapy*, 2014, 5 (46): 406–432.

Manu LNG Malbrain, Derek J Roberts, Inneke De Laet, Jan J De Waele, Michael Sugrue, Alexander Schachtrupp, Juan Duchesne, Gabrielle Van Ramshorst, Bart De Keulenaer, Andrew W. Kirkpatrick, **Siavash Ahmadi Noorbakhsh**, Jan Mulier, Rao Ivatury, Francisco Pracca, Robert Wise, Paolo Pelosi. **The role of abdominal compliance, the neglected parameter in critically ill patients - a consensus review of 16. Part 1: definitions and pathophysiology.** *Anaesthesiology and Intensive Therapy*, 2014, 5(46): 392–405.

December 2014

Setareh Gholizadeh, Saleh Nasiri, **Siavash Ahmadi Noorbakhsh**, Esmat Mirabzadeh Ardakani, Saeid Rivandi. **Rabbit pyrogen test study of infusible platelet membrane as a platelet substitute for blood transfusion.** *Journal of Drug Delivery and Therapeutics*, 2014, 4 (6): 53-57.

November 2014

Siavash Ahmadi-Noorbakhsh, Manu LNG Malbrain. **Integration of inspiratory and expiratory intra-abdominal pressure: a novel concept looking at mean intra-abdominal pressure.** *Annals of Intensive Care (the official organ of the French Society of Intensive Care Medicine)*, 2012, 2 (Suppl 1): S18. DOI: 2110-5820-2-S1-S18.

December 2012

Siavash Ahmadi-Noorbakhsh, Manu LNG Malbrain. **Addendum: mathematical model for calculation of mean intra-abdominal pressure, taking into account integration of inspiratory and expiratory intra-abdominal pressure.** *Annals of Intensive Care (the official organ of the French Society of Intensive Care Medicine)*, 2012, 2 (Suppl 1). DOI: 2110-5820-2-S1-S18.

December 2012

Siavash Ahmadi-Noorbakhsh, **Letter to the Editor.** *Journal of Veterinary Emergency and Critical Care*, 2012, 22(5): 528–529.

October 2012

Siavash Ahmadi-Noorbakhsh, Saeed Azizi, Bahram Dalir-Naghadeh, Masoud Maham. **Hyperpressure intraperitoneal fluid administration for control of bleeding after liver injury,** *Journal of Surgical Research*, 2012, 176: 559-566.

August 2012

Siavash Ahmadi-Noorbakhsh, Saeed Azizi, Bahram Dalir-Naghadeh, Masoud Maham. **Blood oxygenation during hyperpressure intraperitoneal fluid administration in a rabbit model of severe liver injury: evaluation of a novel concept for control of pre-hospital liver bleeding,** *Veterinary Research Forum* 2012, 3: 125-130.

June 2012

Siavash Ahmadi-Noorbakhsh, Farshid Sarrafzadeh-Rezaei, Masoud Maham, Bahram Dalir-Naghadeh. **Simple evaluation of**

January 2011

the wound healing effect of topical ointments made from "*Senecio Vernalis*" (Asterales: Asteraceae) plant extract in rats, *Bulletin of the Veterinary Institute in Pulawy*, 2011, 55: 117-120.

SELECTED BOOKS

Management, Anaesthesia and Surgery of Laboratory Animals. Farshid Sarrafzadeh-Rezaei and Siavash Ahmadi-Noorbakhsh ; 880 pages. Urmia University Press, Urmia, Iran.	December 2010 (Winner of the Book of the Year Award)
Laboratory Animals Euthanasia. Esmat Mirabzadeh Ardakani and Siavash Ahmadi-Noorbakhsh ; 320 pages, Pasteur Institute* Press, Tehran, Iran.	June 2014 (Winner of the Top Book Award at Science Week Festival of the Pasteur Institute)
Veterinary Wound Management. Siavash Ahmadi-Noorbakhsh , Siamak Kazemi-Darabadi. Iranian Veterinary Surgery Association, Tehran, Iran.	September 2017
Dogs: Biology, Behaviours and Description of Diseases. Siavash Ahmadi-Noorbakhsh , Ahmad Rezayan, 300 Pages, Tehran, Iran.	March 2018

SELECTED TRAINING

Summer School of Ethics in Biomedical Research (60 hours) by National Ethics Committee for Biomedical Research, and Mashad University of Medical Sciences, Mashad, Iran.	3-10 August 2018
Workshop on Ultrasonography of Liver, Spleen and Pancreas in Veterinary patients. Iran Veterinary Council, Tehran, Iran.	December 2017
Workshop on Stereological Methods in Animal Research. Tehran University Veterinary Faculty, Tehran, Iran.	November 2017
Workshop on Basics of Cell Culture on Electrospun Nanofiber Scaffold workshop. International Conference on Nanofibers, Tehran, Iran.	October 2017
SPSS Software workshop. Pasteur Institute* in Iran, Tehran, Iran.	September 2017
Scientific Writing workshop. Pasteur Institute* in Iran, Tehran, Iran.	September 2017
From Concept to Creation , Centre for Entrepreneurial Research and Innovation (CERI), Perth, Australia.	June 2017 to present

Entrepreneurial Mindset Boot Camp , Centre for Entrepreneurial Research and Innovation (CERI), Perth, Australia.	27-29 March 2017
Fundamentals of Cell Culture (5-day Course) , Iranian Biological Resource Center (IBRC), Tehran, Iran.	January 2017
Workshop on Using Laboratory Animals in Biomedical Research , Royan Institute, Tehran, Iran.	December 2016
UWA Gene Technology Awareness session, The University of Western Australia, Perth, Australia.	December 2016
UWA Biosafety Induction course, The University of Western Australia, Perth, Australia.	November 2016
Workshop on Advanced Mechanical Ventilation in Neonates-Using Animal Models , held by <i>National Health and Medical Research Council (NHMRC)</i> and <i>NHMRC Preterm Infants Centre of Research Excellence</i> , The University of Western Australia, Perth, Australia.	23 rd and 24 th June 2016
Workshop on Ultrasound Skills for The Large Animal Laboratory , NHMRC Centres of Research Excellence (CRE), University of Western Australia, Perth, Australia.	26 June- 8 July 2015
Aseptic Technique E-learning package, Government of Western Australia, Department of Health, Perth, Australia.	September 2014
Quarantine Approved Premises for Accredited Persons , Australian Quarantine and Inspection Service, Australia.	September 2014
Quarantine Awareness course, Australian Quarantine and Inspection Service, Perth, Australia.	September 2014
X-ray Operator course, Department of Imaging and Applied Physics, Curtin University, Perth, Australia.	July 2014
UWA Health and Safety Induction module, The University of Western Australia, Perth, Australia.	July 2014
Introduction to Working with Animals in Research and Teaching at University of Western Australia , Online Ethics and Regulations module, The University of Western Australia, Crawley, Australia.	May 2014

SELECTED GRANT REVIEW ACTIVITIES

A+ Trust Research Grant , Auckland District Health Board (ADHB), Auckland, New Zealand.	October 2015
Ethics Review of 22 Elite Grants, National Institute for Medical Research Development (NIMAD) , Tehran, Iran.	February 2018- present

JOURNAL REVIEW ACTIVITIES

Journal of Veterinary Emergency and Critical Care

Veterinary Research Forum

Iranian Journal of Allergy, Asthma, and Immunology

Journal of Diagnostic Pathology

International Journal of Medicine and Medical Sciences

SELECTED TEACHING EXPERIENCES

Lecturer and practical session trainer, Principles of Laboratory Animal Research workshop for Members of Ethics Committees, University Lecturers, and Researchers involved in working with laboratory animals for 7 universities and research centres at East-North Iran , Guilan University of Medical Sciences, Guilan, Iran.	November 2018
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Lecturer and practical session trainer, Principles of Laboratory Animal Research workshop for Members of Ethics Committees, University Lecturers, and Researchers involved in working with laboratory animals for 5 universities and research centres at West-North Iran , Mazandaran University of Medical Sciences, Mazandaran, Iran.	November 2018
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Workshop lecturer, Ethics of Laboratory Animal Use for Deans, Deputy Deans (Research) of Medical Universities, and Senior Members of Ethics Committees , Mashhad Summer School of Ethics in Biomedical Research, Mashhad, Iran.	August 2018
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Lecturer and practical session trainer, Principles of Laboratory Animal Research workshop for Members of Ethics Committees, University Lecturers, and Researchers involved in working with laboratory animals for 7 universities and research centres at North Western Iran , Urmia University of Medical Sciences,	July 2018
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Urmia, Iran.

Lecturer and practical session trainer, **Principles of Laboratory Animal Research** workshop for Members of Ethics Committees, University Lecturers, and Researchers involved in working with laboratory animals **for 10 universities and research centres of Tehran province**, Tehran University of Medical Sciences, Tehran, Iran. July 2018

Workshop instructor, **Advanced Skills in Laboratory Animal Research**, The Iranian Molecular Medicine Network and Pasteur Institute* in Iran, Tehran, Iran. May 2018

Workshop instructor, **Advanced Practical-Surgical Techniques in Laboratory Animal Research**, 14th International Congress of Immunology and Allergy, Tehran, Iran. April 2018

Invited lecturer, **Common Mistakes in Working with Laboratory Animals**, Medical Ethics and History of Medicine Research Centre, Tehran University of Medical Sciences, Tehran, Iran. April 2018

Workshop lecturer, **Laboratory Animals Research Methodology**, Students' Scientific Association of Histology, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran. Feb 2018

Lecturer, **Surgical Instrumentation** Module in **Advanced Studies in Physiology** (APHB5505), The University of Western Australia, WA, Australia. May 2017

International invited lecturer: **Ethics of Research on Laboratory Animals, Academic Centre for Education, Culture and Research**, Tehran, Iran. January 2017

SELECTED ACADEMIC PRESENTATIONS

Lecture on **Trauma** as *Final Doctorate Degree Seminar* with **High Distinction Grade**; Supervisor: Dr. Saeed Azizi, Associate Professor of Veterinary Surgery, Urmia University, Urmia, Iran. March 2010

Lecture on **Portosystemic Shunts**; as part of *The Small Animal Gastrointestinal Surgery* course of the Doctor of Veterinary Science Degree; Supervisor: Dr. Siamak Saifzadeh, Associate Professor of Veterinary Surgery; Urmia University, Urmia, Iran. June 2008

Lecture on **Surgical anatomy of Larynx in Horses and Carnivores**; as part of the *Applied Anatomy* course of the Doctor of Veterinary Science Degree; Supervisor: Dr. Farhad June 2008

Soltanali Nejad, Assistant Professor of Veterinary Anatomy, Urmia University, Urmia, Iran.

Lecture on Wound Healing ; as a part of the <i>Skin Reconstructive Surgery</i> course of the Doctor of Veterinary Science Degree; Supervisor: Dr. Siamak Saifzadeh, Associate Professor of Veterinary Surgery, Urmia University, Urmia, Iran.	May 2008
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ORGANIZATION OF SCIENTIFIC EVENTS

Lecture for Deputy Vice Chancellors (Research) of Medical Universities in Iran regarding “ethical challenges of performing laboratory animal research in Iranian Medical Universities”, The First National Ethics Congress in Iranian Biomedical Research, Guilan, Iran.	November 2018
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Scientific Secretary and Peer-Reviewer for The First National Ethics Congress in Iranian Biomedical Research, Guilan, Iran.	November 2018
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Scientific Secretary of the Principles of Laboratory Animal Research for Members of Ethics Committees, University Lecturers, and Researchers involved in working with laboratory animals in 7 universities and research centres of the North Western Iran, Urmia University of Med. Science, Tehran, Iran.	July 2018
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Scientific Secretary of the Principles of Laboratory Animal Research for Members of Ethics Committees, University Lecturers, and Researchers involved in working with laboratory animals in 10 universities and research centres of Tehran province, Tehran University of Medical Science, Tehran, Iran.	July 2018
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Scientific Secretary of the Advanced Practical-Surgical Techniques in Laboratory Animals , 14 th International Congress of Immunology and Allergy, Tehran, Iran.	April 2018
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PERMISSIONS (LABORATORY ANIMALS)

Permission to Use Animals for Scientific Activities , Outright approval (exempted from sitting the course), Murdoch University.	August 2014
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Permission to Use Animals for Scientific Activities , Outright approval (exempted from doing the Program in Animal Ethics Welfare and Science (PAWES) course), The University of Western Australia, Five-Year Validation.	May 2014
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SELECTED PROFESSIONAL SOCIETIES MEMBERSHIPS

The Institute of Certified Professional Managers	August 2016 - present
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The American Association for Laboratory Animal Science (AALAS); Member number: 87845	April 2016 – April 2017
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Australian and New Zealand Laboratory Animal Association (ANZLAA)	Years 2015 - 2016
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Senior Research Member, The National Health and Medical Research Council (NHMRC) Preterm Infants Centre of Research Excellence (CRE)	July 2014 - present
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