
Summary Curriculum Vitae



**Chief Highly Distinguished Professor Dr. Akbar Nikkhah, BSc MSc PHD
PostDoctorate**

Born in Tehran, Iran, September 20, 1976 Married
Foremost Highly Distinguished Professor of Science& Nutritional Sciences
Leading HighlyDistinguished Mentor of Science Education and Dissemination
ChiefHighlyDistinguished Science Composer&Speaker
Principal Highly Distinguished Elite-Generating Scientist, National Elite Foundation,
Iran

Most Highly Distinguished Global Peace Leader
Department of Animal Sciences

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Brief Biography: Professor Akbar Nikkhah holds BSc in Animal Sciences (University of Zanjan, Iran, 1999), MSc in Animal Nutrition (Isfahan University of Technology, Iran, 2001), PHD in Dairy Nutritional Physiology (University of Manitoba, Canada, 2007) and PostDoctorate in Nutritional Genomics and Management (University of Illinois, US, 2008). Professor Nikkhah significantly influences upon and changes lives of countless people, mentees, mentors, groups, industries, universities, schools, and global institutions in accomplishing resourceful economy and quality life. Dr. Nikkhah has received numerous national and international awards & honors and has authored >50 books and book chapters and >600 influential global scientific publications namely referred articles of scientific, industrial and outreach nature. He speaks in a variety of national and international conferences and meetings and serves >500 national and international journals, conferences, and publishers as chief science advisor, programmer, decision-maker, editor and evaluator. He serves the global community as Chief Highly Distinguished Professor and Mentor, Chief Highly Distinguished Science Composer/Speaker, Foremost Principal Highly Distinguished Elite-Generating Scientist, National Elite Foundation, Iran, Highly Distinguished Multilingual Poet and Frontier Highly Distinguished Peace Leader with diversified programs in multidisciplinary and interdisciplinary science and technology research and education.

Affiliations: Chief Highly Distinguished Professor and Mentor, Iran; Leading Highly Distinguished Mentor of Science Education and Dissemination; Chief Highly Distinguished Science Composer and Speaker; Foremost Principal Highly Distinguished Elite-Generating Scientist, National Elite Foundation, Iran; Highly Distinguished Multilingual Poet; Frontier Highly Distinguished Global Peace Leader

Selected Research Interests: Veterinary, Animal Agricultural, Economical, Educational, Medical, Biological, Microbiological, Biochemical, Genomic, Proteomic and Metabolomic, Pharmaceutical, Biotechnological, Animal Agricultural, Nanotechnological, Humanities and Arts, Managerial, Medical, Physiological, Nutritional, Nanotechnological, Medicinal, Microbiological, Economical, Veterinary, Chronobiochemical, Psychological, Social, Philosophical, Linguistic, Biochemical and Biophysical, Immunological & Pathological, Lingual, Public Health, and Basic Sciences

EDUCATION

January 2009 on, Chief Highly Distinguished Professor of Science & Ruminant Nutrition
Nutritional Sciences, Highly Distinguished Mentor of Science Education and
Dissemination, University of Zanjan, Zanjan, Iran; 2008-2009 Highly Distinguished
Professor, Isfahan University of Technology, Isfahan, Iran

September 2007 – December 2008. Post-Doctorate
Dairy Cattle Nutrition, Biochemistry & Physiogenomics, Transition Cow Biology
Department of Animal Sciences, University of Illinois at Urbana-Champaign, U.S.A.

September 2003-October 2007 PH.D. Ruminant Nutritional Physiology
The University of Manitoba, Winnipeg, Canada. Dissertation: Feed Delivery Timing:
Chronophysiological Insights into Dairy Production

1999-2001 M.Sc. (Hons.) Animal Nutrition
Isfahan University of Technology (IUT), Iran: Effects of feeding
steam- processed broomcorn and ground barley on performance of
dairy cows in mid lactation

1995-1999 B.Sc. (Hons.) Animal Sciences, University of Zanjan, Zanjan-Iran

1994-1995 Diploma, Natural Sciences, Shahidi High School, Qazvin-Iran

**SELECTED ADVISORY, CHIEF EDITORSHIP, EDITORIALBOARDS &
REVIEW COMMITMENTS: NATIONAL AND INTERNATIONAL
JOURNALS &PUBLISHERS**

- 1- Journal of Nutrition and Food Science
- 2- Journal of Diabetes Mellitus
- 3- Iranian Journal of Applied Animal Science
- 4- Nutrition and Food Sciences
- 5- Journal of Dairy Science
- 6- International J academic Research in Business & Social Sciences
- 7- Journal of Public Administration and Governance
- 8- Open Access Physiology Journal
- 9- Veterinary Medicine: Research and Reports
- 10-Journal of Biological Sciences
- 11-Agricultural Science Research Journal
- 12-Journal of Herbs, Spices & Medicinal Plants
- 13-International Journal of Food Sciences and Nutrition
- 14-Advances in Bioscience and Biotechnology
- 15-Journal of Medicinal Plant Research
- 16-African Journal Pharmacy and Pharmacology

- 17-International Journal of Agricultural Research
- 18-Asian Journal of Agricultural Research
- 19-Asian Journal of Scientific Research
- 20- African Journal of Agricultural Research
- 21-Research Journal of Veterinary Science
- 22-International Journal of Dairy Science
- 23-Asian Journal of Animal and Veterinary Advances
- 24-Pakistan Journal of Biological Sciences
- 25-Asian Journal of Animal Sciences
- 26-Trends in Applied Sciences Research
- 27-International Journal of Livestock Production
- 28-Food and Nutrition Sciences
- 29-Pakistan Journal of Pharmaceutical Sciences
- 30-Livestock Science
- 31- Iranian Biomedical Journal
- 32- Iranian Journal of Biology
- 33- Frontiers in Nutrition
- 34-Advances in Biomedical Engineering Research
- 35-Recent Patents on Food, Nutrition & Agriculture
- 36- Annual Research & Review in Biology
- 37-Journal of Animal and Poultry Sciences
- 38-Journal of Plants

- 39-**Q**Science**C**onnect
- 40-**A**merican Journal of Current Biology
- 41-**I**nternational Journal of Liberal Arts & Social Science
- 42-**D**rug Delivery Letters
- 43- Animal Production Research
- 44- **J**ournal of Clinical Immunology and Immunopathology Research
- 45- Animal Science Research
- 46- Herald Journal of Agriculture & Food Science Research
- 47-**J**ournal of Curriculum and Teaching
- 48- Gene
- 49-**P**acesetter Journal of Agricultural Science Research
- 50-**F**rontiers in Biotechnology
- 51-**F**rontiers in Biological Chemistry
- 52-**I**nternational Journal of Agricultural Policy & Research
- 53-**B**asic Research Journal of Animal Science
- 54-**I**nternational Journal of Clinical Reviews & Opinions
- 55-**J**ournal of Animal Health & Veterinary Medicine
- 56-**I**nternational Journal of Diabetology& Vascular Disease Research
- 57-**W**orld Journal of Animal Science Research
- 58-**A**rchives of Physiology
- 59-**C**omprehensive Research Journal of Medicine and Medical Science
- 60- **C**omprehensive Research Journal of Biological Science

- 61- International Journal of Academic Research in Progressive Education & Development
- 62-**C**omprehensive Research Journal of Agricultural Science
- 63-Journal of Middle East Applied Science & Technology
- 64-Recent Patents on Food, Nutrition & Agriculture
- 65-**C**aribbean Journal of Science & Technology
- 66-**T**he Open Access Journal of Resistive Economics
- 67-**I**nternational Research Journal of Basic and Clinical Studies
- 68- Journal of Agricultural Science and Applications
- 69- **J**ournal of Advances in Biology
- 70-**G**lobal Scholars Journals
- 71- Microbiology Discovery
- 72-**V**eterinary Medicine and Animal Sciences
- 73-**A**dvances in Biology
- 74- African Journal of Microbiology Research
- 75-Journal of the Science of Food and Agriculture
- 76- Global Epidemic Obesity
- 77-**I**nternational Research Journal of Basic and Clinical Studies
- 78-Vitamins and Minerals Reports
- 79-LWT - Food Science and Technology
- 80-Journal of the Science of Food and Agriculture
- 81- Journal of Animal Science and Biotechnology
- 82-International Journal of Educational Policy Research and Review

- 83- Journal of Animal Science & Biotechnology
- 84- Greener Journals (GJ)
- 85- Journal of Animal Research
- 86-**Sky** Journal of Biochemistry Research
- 87-**Synergy** Publishers
- 88- ARIPD
- 89-**I**nternational Journal of Modern Education Research
- 90-**I**nternational Journal of Biological Sciences and Applications
- 91-American Journal of Microbiology and Biotechnology
- 92-International Journal of Economic Theory and Application
- 93-International Journal of Management Science
- 94- Applied Science Reports
- 95-**G**lobal Journal of Animal Scientific Research
- 96-**J**ournal of Microbiology & Infections
- 97-**S**cholarena Journal of Biotechnology
- 98-Vernon Innovative Publishers
- 99-**H**ormonal Studies
- 100- Reports on Diabetes
- 101- **A**ustin Journal of Biotechnology & Bioengineering
- 102- **J**ournal of Veterinary Science & Medical Diagnosis
- 103- Advances in Biomedical Engineering Research (ABER)
- 104- US Open Animal Sciences Journal

- 105- Educational Researcher
- 106- **U**niversal Journal of Agricultural research
- 107- **J**ournal of Veterinary Science and Animal Husbandry (IJVSAH)
- 108- BMC Veterinary Research
- 109- Global Journal of Management and Business
- 110- **I**nternational Journal of Applied & Natural Sciences
- 111- **J**ournal of Global Economics
- 112- **P**rogress in Engineering
- 113- **E**ndocrinology & Metabolic Syndrome
- 114- Trends in Life Sciences
- 115- **A**rchives of Obesity
- 116- **A**sian Pacific Journal of Tropical BioMedicine
- 117- Journal of Animal Products
- 118- Journal of Zoological and BioScience Research
- 119- Health Sciences Forum of AAIR (The American Association of International Researchers)
- 120- **E**quatorial Journal of Agricultural Sciences
- 121- World Journal of Biology and Biological Sciences
- 122- **T**he **O**pen Access Journal of Science & Technology
- 123- **A**gricultural Science: An International Journal
- 124- **J**ournal of Nutrients
- 125- **A**dvances in Nutrition and Food Technology

- 126- **Cogent Food & Agriculture**
- 127- **Advances in Nutrition and Food Technology**-open access
- 128- **Ecology of Food & Nutrition**
- 129- **Intellectual Property Rights: Open Access**
- 130- **Journal of Education & Curriculum Development Research**
- 131- **Projournal of Agricultural Science Research**
- 132- **Global Scholars Journal of Veterinary Medicine & Animal Health**
- 133- **The Journal of Agriculture and Natural Resources Sciences**
- 134- **Current Advances in Chemistry Research(CACR)**
- 135- **American Journal of Science & Technology**
- 136- **International Journal of Dairy Science & Processing**
- 137- **International Research Journal of Applied & Basic Sciences**
- 138- **Advanced Research Journal of & Animal Sciences**
- 139- **Journal of Dynamics in Agricultural Research (JDAR)**
- 140- **Medical Instrumentation**
- 141- **Journal of Biodiversity, Bioprospecting and Development**
- 142- **Agrotechnology**
- 143- **Journal of Bioprocessing & Biotechniques**
- 144- **Journal of Current Metabolomics**
- 145- **Global Scholars Journal of Microbiology**
- 146- **International Journal of Veterinary Health Science & Research**
- 147- **International Journal of Diabetes Research and Endocrinology**

- 148- International Journal of Medical Sciences & Biotechnology
- 149- **T**he Journal of Applied Science Research
- 150- **D**onnish Journal of Microbiology & Biotechnology Research
- 151- Science Publishing Group
- 152- **A**dvances in Crop Science and Technology
- 153- International Journal of Agriculture & Crop Sciences
- 154- **T**ranslational Medicine & Biotechnology
- 155- **U**S Open Animal Physiology Journal
- 156- **A**dvances in Biochemistry
- 157- **J**ournal of Probiotics & Health
- 158- **O**pen Access Library Journal
- 159- Journal of Nutritional Therapeutics
- 160- **A**nnals of Experimental Biology
- 161- **J**ournal of Dairy Veterinary and Animal Research
- 162- **P**latinum Global Journal of Agriculture & Food Science
- 163- Journal of Agricultural Economics and Rural Development
- 164- **A**nimal Review
- 165- **E**-Cronicon Agriculture
- 166- Education Journal, Guest Editor
- 167- **J**ournal of Biodefense& Bioterrorism
- 168- **J**ournal of Obesity & Weight Loss Therapy
- 169- International Journal of Economic Theory and Application

- 170- **S**cholar's Advances In Animal & Veterinary Research
- 171- 2015 **S**pring World Congress on Engineering and Technology (SCET 2015); April 14-16, 2015 in Beijing, China
- 172- **J**ournal of Pregnancy and Child Health
- 173- **A**dvanced Research Journal of Plant and Animal Sciences
- 174- **P**latinum Global Journal of Medicine & Medical Sciences
- 175- **J**acobs Journal of Environmental Science
- 176- **J**ournal of Botanical Sciences
- 177- **A**dvances in Obesity, Weight Management and Control
- 178- **J**ournal of Obesity & Bariatrics
- 179- **J**acobs Journal of Obesity
- 180- **I**nternational Journal of Veterinary Science & Research
- 181- **I**nternational Journal of Veterinary Science & Research
- 182- **I**nternational Journal of Research Studies in Agricultural Sciences
- 183- **A**dvances in Weight Loss Management & Medical Devices
- 184- **A**cademicians' Research Center (ARC)
- 185- **G**lobal Journal of Animal Scientific Research
- 186- **A**giAl Publishing House
- 187- **T**he Open Access Journal of Science and Technology
- 188- **S**DRP Journal Of Infectious Disease & Microbiology
- 189- **N**utrition and Food Science International Journal (NFSIJ)
- 190- **C**urrent Research in Diabetes & Obesity Journal
- 191- **J**ournal of Fisheries Sciences

192- The Open Nutrition Journal

193- Journal of Nutritional Health & Food Engineering

194- ARC Journal of Diabetes & Endocrinology

195-

SELECTED ADVISORY, SCIENTIFIC & ORGANIZING BOARDS &

COMMITTEES OF NATIONAL AND INTERNATIONAL

CONFERENCES & MEETINGS

- 1- Executive Review Committee Member for "Excellence in Graduate Teaching Award" (GTA), The Graduate Students Association, University of Manitoba, Canada - 2006
- 2- Executive Review Committee Member for "Innovation, Stewardship, and Excellence (ISE) Award", The Graduate Students' Association, University of Manitoba, Canada - 2005
- 3- Summary Editor, The Specialized Commercial Poultry Journal of Chakavak, Tehran, Iran – 2002-2003
- 4- Editing a Persian book titled "Metabolic diseases of dairy cows" translated From English to Farsi, Isfahan University of Technology, Iran– 2000
- 5- Scientific Advisory Board/Committee & Referee, First National Electronic Conference on Agriculture & Stable Natural Resources, Tehran, Iran, 2013
- 6- Scientific Advisory Board & Referee, International Conference on Economy under Sanctions, Toroud-Shomal Research Company, University of Mazandaran, Babolsar, Iran, 2013-10-15

- 7- Scientific Referee Board, Scientific & Applied Conference on Agricultural, Urban and Industrial Wastes Management & Use in Livestock and Aquaculture Nutrition, University of Tabriz, Tabriz, Iran, Fall 2012
- 8- Advisory Referee Board, National Animal and Poultry Congress, Northern Branch, Agricultural Sciences & Natural Resources University of Sari, Mazandaran, Iran, Spring 2013
- 9- Advisory Referee Board, 5th International Conference of Iranian Higher Education Association (IHEA), Tarbiat-e-Modarres University, Tehran, Iran, Spring 2013
- 10- Advisory Referee Board, 1st Scientific Conference & National Festival of Iranian Horse Breeds, Arjasb Co. & University of Tehran & Iranian Society of Animal Sciences, Tehran, Iran, Fall 2012
- 11- Advisory Referee Board, 4th Iranian Animal Sciences Congress, University of Tehran, Karaj, Iran, Summer 2010
- 12- Advisory Referee Board, 5th Iranian Animal Sciences Congress, Isfahan University of Technology, Isfahan, Iran, Summer 2012
- 13- Advisory Board, Discussion Panel Member & Head, The 8th Convention of Iranian Veterinary Clinicians & The 2nd Symposium on Ruminant Lameness and its Economical Significance on Animal Products. October 23-25. University of Shiraz, Shiraz, Iran
- 14- Scientific Advisory Board/Committee & Referee, The First National Conference on Environment, Energy & Biodefense, Tehran, Iran, 2014
- 15- Scientific Advisory Board/Committee & Referee, The First International Conference on Green Economics, Toroudshomal Research Company, University of Mazandaran, Iran, May 2014
- 16- Scientific Advisory Board/Committee & Referee, The First Conference on Economy & Applied Management with a National Approach, Toroudshomal Research Company, University of Mazandaran, Iran, June 2014
- 17- Scientific Advisory Board & Referee, The First Conference on
- 18- Sciences and Engineering & Sustainable Development, The Scientific Society of on Environment Education & Sustainable Development of IRAN, February 2014, Tehran, Iran.

- 19- Scientific Advisory Board & Referee, The First International Conference on Political Epic (With an Approach to the Middle East Developments) & Economic Epic (With an Approach to Management and Accounting), February 13th - 14th, 2014 at Rudehen Islamic Azad University, Tehran, Iran.
- 20- Scientific Advisor & Referee, The First National Conference on Developing Iran's Camel Production, April 2014, University of Gonbade-Kavoos, Golestan, Iran.
- 21- International Conference Advisory Committee, ICPRAS 2014 : International Conference on Plastic, Reconstructive and Aesthetic Surgery; September 26 - 27, 2014; London, United Kingdom.
- 22- Scientific Committee Advisor/Referee, The First Annual Conference on Management and Engineering Sciences, EMES 2014, Rasht, September 21, 2014; Islamic Republic of Iran.
- 23- Scientific Committee Leader/Advisor/Referee, The National Conference on New Advances in Basic and Engineering Sciences, Zaminkav Research Group, July 31, 2014 Tehran, Iran.
- 24- Scientific/Advisory Committee, The 1st National Conference on Research & Development in the 3rd Millennium, Nov 2014, Islamic Azad University, Aliabad Katool, Golestan, Iran.
- 25- Scientific/Advisory Committee Leader, The First National Conference on The Place of Management & Accounting in the Modern World of Business, Economy and Culture; Aug 2014, Islamic Azad University, Aliabad Katool, Golestan, Iran.
- 26- Scientific/Advisory Committee Leader, The Accounting, Economics, and Financial Management International Conference, October 26-27, Tehran, Iran.
- 27- Scientific/Advisory Committee Leader & Referee, The Iranian National Conference on Environment & Energy (INCEE 2014), International Research & Education Institution of Kharazmi, August 11, 2014; Shiraz, Iran.
- 28- Scientific and Review Panelist, The 6th International Conference of the Iranian Higher Education Association, "Development of International Higher Education: Opportunities & Challenges", Ferdowsi University of Mashhad, Khorasan, May 14, 2014 Iran.
- 29- Specialized Scientific Meeting Director, The First National Conference on Science Assessment: Valuation & Pathology of Scientific Outputs. University of Isfahan, May 21-22, 2014, Isfahan, Iran.

- 30- Scientific & Advisory Review Committee, The 2nd Conference on Energy, Environment and Biodefense, September 11, 2014; Tehran, Iran.
- 31- Scientific Committee Member, The International Accounting, Economics and Financial Management Conference, SCIJOUR-Scientific Journals Publisher Islamic Azad University; Tehran, October 26-27, 2014, Iran.
- 32- Scientific Committee Member, "The National Conference on Philosophy of Education in Practice", Kharazmi University, Karaj Pardis, October 7-8, 2014; Alborz, Iran.
- 33- Review Committee Member, "The 6th National Congress on Animal Sciences", Iranian Society of Animal Sciences, University of Tabriz, September 27-28, 2014; Tabriz, Iran.
- 34- Organizing Committee Member, The 3rd International Conference of Bioprocess and Engineering (Bioprocess-2015), Bringing Latest Technological Developments of Bioprocess in to Real World Scenario; May 04-05, 2015 Baltimore, USA.
- 35- Referee & Scientific Advisor, The International Conference on Agricultural and Biological Sciences, July 25-27, 2015, Beijing, China.
- 36- Scientific Committee Member, National Conference of Modern Agriculture and Its Development Approaches, Feb 26, 2015; Islamic Azad University, Ghods City Branch, Tehran, Iran.
- 37- Scientific Committee Member & Reviewer, "The 1st National Conference on Geography, Tourism, Natural Resources & Sustainable Development"; December 4, 2014; Tehran, Iran.
- 38- Scientific Advisory Board & Referee, 2nd International Conference on Economy under Sanctions, Toroudshomal Research Company, University of Mazandaran, Babolsar, Iran, 2014-10-15
- 39- Technical Program Committee (TPC), The 2015 Spring International Conference on Agriculture and Food Engineering (AFE-S), April 14-16, 2015; Beijing, China.
- 40- Technical Program Committee (TPC), The International Conference on Biological Information and Engineering (ICBIE 2015); May 23rd-24th, 2015, Yichang, China.
- 41- Organizing Committee, The 3rd International Conference of Bioprocess and Engineering (Bioprocess-2015), May 4-5, 2015; Baltimore, USA.

- 42- Technical Program and Organizing Committee (TPC), The 2014 International Conference on Advanced Management Science and Information Engineering (AMSIE2014), December 25-26, 2014, Hong Kong.
- 43- Technical Program and Organizing Committee (TPC), International Conference on Advanced Educational Technology and Information Engineering (AETIE2014), November 16-17, 2014, Shenzhen, China.
- 44- Scientific and Review Committee & Science Leader, The 4th National Congress on Agriculture, Aquatic Animals and Food"; November 6-7, 2014; Bushehr, Iran.
- 45- Organizing Committee Member, Diabetic Medications-2015, The upcoming International Conference on Targeting Diabetes with Novel Therapeutics", September 14-16, 2015; Las Vegas, USA.
- 46- Organizing Committee Member, International Conference on Engineering Management and Industrial Engineering(EMIE2014),October 16-17, 2014, Xiamen, China.
- 47- Scientific Committee Member & Referee, "The First National Conference on Geography, Tourism, Natural Resources and Sustainable Development", December 4, 2014, Tehran, Iran.
- 48- Scientific Committee and Referee, "Novel Findings in Bioenvironmental and Agricultural Ecosystems", Renewable Energies and Environment Research Center, University of Tehran, December 10, 2014, Iran.
- 49- Scientific Committee and Referee, www.waterconf.ir. "National Congress on Potential Approaches to Water Crisis in Iran and Middle East", February, 2015| Shiraz, Iran.
- 50- Organizing Committee Member, "The 2015 Spring World Congress on Engineering and Technology (SCET 2015)"; April 14-16, 2015 in Beijing, China.
- 51- Scientific Committee, "The First National Conference on Sustainable Development in Engineering Systems of Energy, Water and Environment". Iran University of Science and Technology, May 21, 2015; Tehran, Iran.
- 52- Scientific Committee, "International Conference on Sustainable Development: Strategies and Challenges, Focusing on Agriculture, Natural Resources, Environment & Tourism", February 24-26, 2015; Tabriz, Iran.
- 53- Chairman, The 2014 International Conference on Social Science (ICSS 2014);

November 15-16, 2014, Chengdu, China.

- 54- Scientific Committee& Reviewer, "The 2nd National Meeting of Tourism, Geography, and Sustainable Development", College of Shahid Mofatteh, November 15, 2014; Hamedan, Iran.
- 55- Organizing Committee, "International Conference on Education, Psychology, and Liberal Arts, (ICEPL) 2015"; 22-24 April 2015, Taipei, Taiwan.
- 56- International Scientific Committee, "ICPEM 2014: XII International Conference on Production Engineering and Management"; October 18-19, 2014; Dubai, UAE.
- 57- International Scientific Committee, "ICPRAS 2014 : XII International Conference on Plastic, Reconstructive and Aesthetic Surgery", September 26-27, 2014; London, UK.
- 58- International Scientific Committee, "IPEMC 2015: International Production Engineering and Management Conference", IPEMC April 16-17, 2015; Lisbon, Portugal.
- 59- Scientific Committee, "World Academy of Science, Engineering & Technology", International Scientific Committee PO Box 982, Riverside, Connecticut, CT 06878, USA.
- 60- Scientific and Review Committee, "The First National Conference on Advances in Management and Accounting", The Higher Education Institute of Industry, Mining and Commerce, The Ministry of Science Research and Technology, February 2015, Tehran, Iran.
- 61- Scientific and Review Committee, "The Annual Iranian Conference of Biology", February 16-18, 2015; Tehran, Iran.
- 62- Scientific Committee, "The 2015 Spring International Conference on Forestry and Animal Husbandry (FAH-S)", April 14-16, 2015 in Beijing, China.
- 63- Scientific Committee, "The Spring International Conference on Biomedical Engineering and Biotechnology (BEB-S)", April 14-16, 2015 in Beijing, China.
- 64- Scientific Committee, "2015 Spring International Conference on Advances in Physics (CAP-S)", April 14-16, 2015 in Beijing, China.
- 65- International Scientific Committee, "2015 Spring International Conference on Applied and Engineering Mathematics (AEM-S)", April 14-16, 2015 in Beijing,

China.

- 66- International Scientific Committee, 2015 Spring International Conference on Material Sciences and Technology (MST-S), April 14-16, 2015 in Beijing, China.
- 67- International Scientific Committee, 2015 Spring International Conference on Chemical Engineering (CEN-S), April 14-16, 2015 in Beijing, China.
- 68- Scientific Committee & Reviewer, "The First National Conference on Urban Planning and Management and Sustainable development", December 17, 2014; Tehran, Iran.
- 69- Scientific Committee & Reviewer, "The Annual Iranian Biology Conference", February 16-18, 2015; Tehran, Iran.
- 70- Scientific Advisory Committee & Reviewer, "The First International Conference on Environmental Engineering", The Higher Association for Sustainable Development, January 29, 2015; Tehran, Iran.
- 71- Advisory Board & Referee, Iranian Annual Congress on Artistic Research, February 18-19, 2015; Tehran, Iran.
- 72- Scientific Committee, "The International Conference on Management Tools & Techniques", Shahid Beheshti International Conference Center, January 6-7, 2015; Tehran, Iran.
- 73- Scientific Committee, Science Leader, & Reviewer, "The First National Conference on Pharmacopants, Traditional Medicine, and Organic Agriculture", Shahid Mofatteh College, November 29, 2014; Hamedan, Iran.
- 74- Technical Program Committee, Health Economics Conference (HEC 2015), May 24-26, 2015; Beijing, China.
- 75- Organizing Committee, "International Conference on Biomedical Engineering", April 25-26, 2015; Beijing, China.
- 76- Organizing & Scientific Committee, The 4th International Conference on Agriculture & Horticulture", July 20-22, 2015; Beijing, China.
- 77- Reviewer, "International Conference on Agricultural and Biological Sciences (ABS2015); July 25-27, 2015, Beijing, China.
- 78- Editor & Reviewer, The Athens Institute for Education and Research (ATINER): The 8th Annual International Symposium on Agriculture, 13-16 July 2015,

Athens, Greece.

- 79- International Scientific Committee & Technical Program Committee Member, The 2015 International Conference on Intelligent Materials and Manufacturing Engineering (IMME2015); January 16-17, 2015, Phuket Island, Thailand.
- 80- Organizing & Technical Program Committee Member, "The 2nd Conference on Protein and Proteomics (CPP 2015)", March 20 to 22, 2015; Reston, Virginia, Washington D.C. metropolitan area, USA.
- 81- Reviewer, The International Academic Conference on Social Sciences (IACSS 2015); The International Institute for Academic development July 25-26; Istanbul, Turkey.
- 82- Scientific Committee Leader/Advisor/Referee, "The 2nd International Conference on New Advances in Basic and Engineering Sciences", March 6-7, 2015; London, UK.
- 83- International Scientific Committee, "International Conference on Management Engineering and Information Technology Application (MEITA2015)", April 19-20, 2015, Hong Kong.
- 84- International Scientific Committee, "The 2015 International Conference on Educational Technology and Computer Application (ETCA2015)", May 17-18, 2015, Beijing, China.
- 85- International Scientific Committee, The 2015 2nd International Conference on Education Reform and Modern Management (ERMM2015); April 19-20, 2015, Hong Kong.
- 86- Technical Program Committee Leader; International Conference on Management, Economics and Social Development [ICMESD2015]; February 6-8, 2015; Wuhan, Hubei, China.
- 87- Scientific Committee & Referee, "The 2nd National Conference on Applied Research in Management & Accounting", March 5, 2015; University of Tehran, Tehran, Iran.
- 88- Scientific Committee & Reviewer, "The First National Conference on Urban Planning, Urban Management & Sustainable development", February 26, 2015; Tehran, Iran.

- 89- Organizing Committee Member (OCM), Euro Global Summit & Medicare Expo on Weight Loss; The theme "Innovative weight loss approaches to overcome health risks associated with obesity"; August 18-20, 2015 Frankfurt, Germany.
- 90- Scientific Committee, The First National Specialized Conference on Agricultural and Environmental Sciences, Zamin-Kav Research Organization, Ministry of Science Research and Technology, June 2015; Ardebil, Iran.
- 91- Scientific Committee, The First National Conference on Novel Achievements in Biological and Agricultural Sciences, May 21, 2015; Tehran, Iran.
- 92- Scientific & Review Committees, The First National and Second Regional Congress on Islam and Mind Health, April 22-23, 2015; Bandare-Abbas, Hormozgan Jahade-Daneshgahi, Hormozgan, Iran.
- 93- Scientific & Review Committees, The 1st Annual Congress on World and Energy Crisis (WEC2015), May 21, 2015; Shiraz, Iran.
- 94- Organizing & Scientific Committee, 2015 International Conference on Cardiovascular Medicine (ICCM 2015), September 18-20, Shanghai, China.
- 95- Organizing Committee, "The 7th Indo Global Diabetes Summit and Medicare Expo"; Theme: "Fostering Innovative Technologies & Treatments for Successful Diabetes Care"; October 19-21, 2015; Bangalore, India.
- 96- Technical Committee Leader, 2016 Spring World Congress on Engineering and Technology (SCET 2016), April 17-19, 2016, Suzhou, China.
- 97- International Scientific Committees, 2015 International Conference on Systems Science and Management Engineering (SSME2015) (<http://www.ssme2015.org/>); July 26-27, 2015, Phuket, Thailand.
- 98- International Committee Chair, 2015 2nd International Conference on the Modern Development of Humanities and Social Science(MDHSS2015); July 26-27, 2015, Phuket, Thailand.
- 99- International Scientific Committees, AIIE2015-the 2015 International Conference on Artificial Intelligence and Industrial Engineering (AIIE2015); July 26-27, 2015; Phuket, Thailand.
- 100- Scientific & Review Committee, The 1st Annual Congress on World and Energy Crisis (WEC2015), May 21, 2015; Shiraz, Iran.

- 101- Scientific & Review Committee, The 1th Conference on Natural Resources, Environment and Sustainable Development with emphasis on Environmental Law; May 14, 2015; Payame-Noor University, Eizah, Khoozestan, Iran.
- 102- Organizing & Scientific Committee, International Conference on Project and Quality Management (PQM 2015); November 20 - 22, 2015; Guilin, China.
- 103- Organizing & Scientific Committee, International Conference on Global Economics; August 03-05, 2015 Birmingham, United Kingdom.
- 104- Organizing & Scientific Committee, The 8th Euro Global Diabetes Summit and Medicare Expo; November 03-05, 2015 Valencia, Spain.
- 105- Organizing & Technical Committee, The 3rd Conference on Protein and Proteomics (CPP 2016); March 2 to 4, 2016; Beijing, China.
- 106- Scientific Committee, National Congress of the Key Issues in Management and Accounting, The Scientific & Applied Education Center of Helale-Ahmar, May 13, 2015; Gorgan, Golestan-Iran.
- 107- Scientific Organizing Committee, The 5th International Conference on Economics, Management, and Agricultural Sciences. July 22, 2015; Anzali Free Industrial Zone, Guilan, Iran.
- 108- Scientific & Review Committee, “The National Congress of Sighted Society & Blind Citizen”, October 13-14, 2015; University of Kashan, Kashan, Iran.
- 109- Scientific & Review Committee, “International Conference on Geographical Sciences”, August 05, 2015; Kharazmi Higher Institute of Science and Technology, Shiraz, Iran.
- 110- Scientific & Organizing Committee, The 3rd Agricultural Science and Food Engineering Conference (ASFE 2015); December 18 - 20, Guilin, China.
- 111- Scientific & Review Committee, “The 1st International Conference on Entrepreneurship, Creativity & Innovation”, August 20, 2015; Tehran, Iran.
- 112- Scientific & Organizing Committee TPC, “2015 Conference on Nutrition and Food Science (NFS 2015)”, August 25 to 27, 2015 Shanghai, China.

- 113- Scientific & Organizing Committee, The First International Environment and Natural Resources Conference, September 06/2015; Shiraz, Iran.
- 114- Scientific Committee, The 2nd International Conference of Tools & Techniques of Management, December 7-8, 2015; Tehran, Iran.
- 115- Organizing Committee, the "The 4th International Conference on Plant Genomics", July 14-15, 2016; Brisbane, Australia.
- 116- International Committee Member, 2016 International Conference on Education, Psychology, and Liberal Arts (ICEPL); 20-22 April 2016; Taipei, Taiwan.
- 117- Chair of Committee, International Conference on Artificial Intelligence: Technologies and Applications (ICAITA2016), January 24-25, 2016, Bangkok, Thailand.
- 118- Technical Committee, 2016, The 2nd International Conference on Advances in Biophysics (ICAB 2016); March 18-20, 2016, Los Angeles, USA.
- 119- Scientific Committee, First National Conference on Islamic Architecture, Urban Heritage and Sustainable Development, Jan 2016, Tehran, Iran.
- 120- Scientific Committee, 2015, The 2nd International Conference on Innovative Approaches into Science, Engineering, and Technology, Nov 2015, Istanbul, Turkey.
- 121- Organizing Committee, The 4th Euro Obesity & Endocrinology Specialists Annual Meeting "Fastidious Investigation of causes and consequences of obesity and Endocrine Disorders: Treatment & Economics". March 29-31, 2016; Valencia, Spain.
- 122- Organizing and Technical Committee, 2016, The 2nd Health Economics Conference (HEC 2016); May 29-31, 2016; Nanjing, China.
- 123- Scientific Committee, National Conference on Contemporary Challenges in Architecture, Landscape, and Urban Planning, March 3, 2016, Tehran, Iran.
- 124- Scientific Committee, 5th International Conference on Economics Management & Agricultural Sciences, Anzali Free Zone, July 22, 2015, Anzali, Guilan, Iran.
- 125- Scientific & Review Committee, "The 1st International Conference of Management Sciences: Advances, Innovations, Challenges", Kharazmi High Institution of

Science and Technology, November, 21, 2015; Shiraz, Iran.

- 126- Scientific Committee, "The 2nd International Conference on Sustainable Development: Strategies and Challenges, Focusing on Agriculture, Natural Resources, Environment & Tourism", February 24-26, 2016; Tabriz, Iran.
- 127- Scientific Committee, "The International Conference on Innovation in Engineering and Technology Development", February 16-18, 2016, Tabriz, Iran.
- 128- Scientific Committee, National Conference on Culture Tourism & City Identity, 23-25 January 2016, Kerman, Iran.
- 129-

SELECTED DISTINGUISHED HONORS, AWARDS & SCHOLARSHIPS

2013 Best Paper/Speech Award, International Conference on Economy Under Sanction, Toroudshomal CO., Univ. of Mazandaran, Babolsar, Iran

2010 Chief Highly Distinguished Professor of Science, Ruminant Nutrition & Nutritional Sciences, Highly Distinguished Mentor of Science Education and Dissemination
Highly Distinguished Science Composer
Highly Distinguished Elite-Generating Scientist, National Elite Foundation, Iran
Highly Distinguished Global Peace Leader, National and International, University of Zanjan

2011 Selected Elite-Generating Distinguished Scientist, Scholar, and Professor; National Elite Foundation, Tehran, Iran

2010 Faculty Distinguished Professor Position Offer, Department of Animal Sciences, University of Zanjan, Zanjan, Iran

2009 Faculty Distinguished Professor Position offer - Department of Animal Science, Isfahan University of Technology, Iran

2008 Late-Breaking Research Acknowledgment and Invitation for Theatre Presentation, ADSA/ASAS Meetings, Indianapolis, IN, USA

- 2007 Post-Doctoral Position, Department of Animal Sciences, University of Illinois, USA
- 2006 Post-Doctoral Fellowship Research in the Canadian Government Laboratories by the National Science and Engineering Research Council of Canada (NSERC)
- 2006 Graduate Thesis Prize (M.Sc.) for a paper published in Journal of Dairy Science, Awarded by Isfahan University of Technology, Isfahan-Iran
- 2006 Conference Travel Award granted by The Faculty of Graduate Studies at University of Manitoba to attend the Joint Meeting of ADSA/ASAS in Minneapolis, MN
- 2006 Conference Travel Award – Graduate Students’ Association, U of M To attend the 57th meeting of the European Association for Animal Production (EEAP) in Antalya-Turkey during September 17-20, 2006
- 2005 Conference Travel Award granted by The Faculty of Graduate Studies, University of Manitoba to attend the Joint Meetings of ADSA/ASAS/CSAS in Cincinnati, OH, USA
- 2005 University of Manitoba Graduate Bursary
- 2004 Graduate Competition Award for a theater presentation at the annual meeting of the Canadian Society of Animal Science (CSAS), Edmonton, AB, July 20-24
- 2004 University of Manitoba Graduate Bursary
- 2003 National Scholarship for Ph.D. studies overseas awarded by MSRT
- 2003 Faculty Position offer - Department of Animal Sciences, Zanjan University, Iran
- 2003 University of Manitoba Graduate Bursary
- 1998 Institutional Undergraduate Award, Zanjan University, Zanjan, Iran

SELECTED KEYNOTE SCIENTIFIC & PUBLIC SPEECH INVITATIONS AND AWARDS

- 2016 The 6th International Conference & Expo on Proteomics during March 29-31, 2016 Atlanta, USA.
- 2016 "International Dairy Meet & Expo", June 29-30, 2016 New Orleans, USA. The parasol theme: "Dairy Meet - Opportunity & Challenges for Future", June 29-30, 2016 New Orleans, USA.
- 2016 PCS 3rd Annual Global Cancer Conference-2016; United Against Cancers Locally, Nationally and Internationally, November 5-6, 2016; Marrakesh, Morocco.
- 2016 "The 4th International Conference on Plant Genomics"; "Frontiers in Plant Genomics: From Discovery to Applications"; July 14-15, 2016; Brisbane, Australia.
- 2015 Institute for NATural Sciences and Engineering, Education and Modern Educational Technologies, Bratislava, Slovakia, November 28-30, 2015.
- 2016 "4th Euro Obesity & Endocrinology Specialists Annual Meeting" Euro Obesity-2016 conference "Fastidious Investigation of causes and consequences of obesity and Endocrine Disorders: Treatment & Economics". March 29-31, 2016; Valencia, Spain.
- 2016 The 3rd Global Experts Meeting on Weight Loss and Medicare Expo; 'Combating Obesity & its associated diseases through Advanced Weight loss Techniques'. September 19-21, 2016; Vienna, Austria.
- 2016 The 4th International Conference on Plant Genomics, "Frontiers in plant genomics: From discovery to applications"; July 14-15, 2016 ; Brisbane, Australia.

- 2015 Annual Global Cancer Conference; PCS Global Cancer Conference (GCC-2015); "Advanced Early Diagnosis and Early Therapy of Cancer"; October 30th to 31st of 2015; Warsaw, Poland.
- 2015 Conference of "6th Asian Obesity specialists and Endocrinologist Annual Meeting, July 11-13, 2016, Kuala Lumpur, Malaysia.
- 2015 The 2nd International Conference on Past and Present Research Systems of Green Chemistry; September 14-16, 2015, Orlando, USA.
- 2015 The 5th World Congress on Cancer Therapy; "Innovations and Novel Approaches in Diagnosis and Treatment of different Cancers" September 28-30, 2015 Atlanta, Georgia, USA.
- 2015 Diabetic Medications-2015; Medical Conferences; Targeting Diabetes and Novel Therapeutics; September 14-16, 2015; Las Vegas, Nevada, USA.
- 2015 Drug Discovery and Therapy World Congress 2015; Boston, MA, USA , July 22nd – 25th, 2015.
- 2015 International Conference on Targeting Diabetes and Novel Therapeutics;; September 14-16, 2015; Medical Conferences, WestlakeLas Vegas, CA, USA.
- 2015 "International Conference on Global Economics"; August 03-05, 2015 @ Hilton Birmingham Metropole, National Exhibition Centre, Birmingham, United Kingdom.
- 2015 The 5th International Conference & Exhibition on Pharmaceutical Regulatory Affairs, Theme: "Key Implications in Regulatory Environment"August 03-05, 2015 at Florida, USA.
- 2015 The 2nd International Caparica Conference on Urine Omics & 2nd International Caparica Conference In Translational Nephrology (28th, 29th, 30th September 2015); Caparica, Lisbon (Costa de Caparica), Portugal.
- 2015 The 5thWorld Congress on Cancer therapy, Theme: Innovations and Novel Approaches in Diagnosis and Treatment of different cancers; September 28-30, 2015; Atlanta, USA.
- 2015 Euro Global Summit & Medicare Expo on Weight Loss; The theme "Innovative weight loss approaches to overcome health risks associated with obesity"; August 18-20, 2015 Frankfurt, Germany.
- 2015 International conference on Social Science and Contemporary Humanity; Development[SSCHD2015]; February 6-8, 2015; Wuhan, Hubei, China.

- 2015 Focus on Nutrition and Health International Conference (NHIC-2015); Concurrent with "Busan Health Care Week" "KORECA (Korea Rehabilitation & senior Care)", "Anti-Aging Expo" and "Beauty Expo", June 26-28, 2015 Busan, South Korea.
- 2015 Global Summit on Virology (Virology-2015); August 27-29, 2015; Crown Plaza Dubai Deira, Dubai, UAE.
- 2015 The World congress on beneficial microbes: Food, Pharma, Aqua and Beverages Industry; August 25-27, 2015, Valencia, Spain.
- 2015 International Conference on Food Safety and Regulatory Measures, "New Challenges and Emerging Issues in Advances of Food Safety & Regulatory Measures, Food logistics and Economy, Environmental Monitoring and Microbiological aspects of Food and the Collaboration of all stakeholders from a Global Perspective", August 17-19, 2015 at Birmingham, UK.
- 2015 World Congress and Expo on Metabolomics and Diseases (Metabolomics - 2015) August 24-26, 2015;Dubai, UAE
- 2015The Diabetic Medications-2015; "International Conference on Targeting Diabetes with Novel Therapeutics", September 14-16, 2015, Las Vegas, USA.
- 2014 KeyNote Speaker Invitation, The 2014 International Conference on Social Science (ICSS 2014);November 15-16, 2014, Chengdu, China.
- 2014 The 2nd International Conference on Animal & Dairy Sciences, "Theme: Addressing new challenges and emerging issues in Animal Sciences and Dairy Research", September 15 -17, 2014; Hyderabad, India.
- 2014 The 4th World Congress on Virology, October 06-08, 2014; San Antonio, USA; Theme: Anti-Viral Immunity and Countermeasures to Control Disease Pathogenesis covering a wide range of critically important sessions
- 2014 International Summit on Past and Present Research systems of Green Chemistry; Theme: Foster Advancements in Globalization of Green Chemistry, August 25-27, 2014; Philadelphia, USA.
- 2014 The 2nd Annual World Congress of Nutrition & Health (WCNH-2014); Theme: Pregnancy and Lactation; October 24-26, 2014; Dalian Hi-tech Industrial Zone, Taiyuan, China

- 2014 Obesity-2014 International Conference, "Dietary Interventions and Potential Applications to Tackle Obesity" San Francisco, USA, December 01-03, 2014
- 2014 The 4th World Congress on Cancer Science & Therapy; World Cancer Science Seminar; "Theme: Enhanced diagnosis, treatment and management of different cancers", October 20-22, 2014; Chicago, USA.
- 2014 International Summit on Industrial Engineering" Theme "Global Approach for Industrial Engineering" December 8-10, 2014; San Francisco, USA
- 2014 The 4th International Conference on Nanotek& Expo, Theme: "Challenging Aspects and Frontiers in Nanoscience & Nanotechnology", December 01-03, 2014 San Francisco, USA.
- 2014 The 5th World Congress on Bioavailability and Bioequivalence: Pharmaceutical R&D Summit; Theme of BABE-2014: Innovative Approaches of BABE to Revolutionize the Next Generation Medicine; Sep 29 - Oct 01, 2014, Baltimore, USA.
- 2014 The 3rd International Conference on Agricultural Science, Biotechnology, Food and Animal Science (ABIFA '14); Transilvania University of Brasov, June 26-28, 2014, Romania
- 2014 The 2nd Annual World Congress of Nutrition & Health 2014 (WCNH-2014), Pregnancy and Lactation; Micronutrients (Vitamins & Carotenoids and Minerals) October, 2014; Taiyuan, China
- 2014 The International Summit on Past and Present Research systems of Green Chemistry; Theme: Foster Advancements in Globalization of Green Chemistry; Aug 25-27, 2014 at Philadelphia, USA.
- 2014 The 4th International Conference on Pharmaceutical Regulatory Affairs, Theme: "Key Implications in Regulatory Environment" September 08-10, 2014, Raleigh, USA.
- 2014 The 2nd International Conference on Oceanography, July 21-23, 2014 in Hampton Inn Tropicana, Las Vegas, USA.
- 2014 The 3rd International Conference and Exhibition on Food Processing and Technology" with the theme "Accelerating new research and innovations in Food Processing and Technology"; July 21-23, 2014; Las Vegas, USA.

- 2014 The 3rd International Conference on Agricultural & Horticultural Sciences. "Theme: Novel Strategies & Innovations in Agricultural & Horticultural Sciences" October 27 -29, 2014, Hyderabad, India.
- 2014 The 2nd International Symposium on Energy Challenges and Mechanics, Aberdeen, Scotland, UK
- 2014 The 3rd International Conference and Exhibition on Nutrition & Food Sciences September 23-25, 2014, Valencia, Spain; Nutritional Science, Life Science Conferences, Westlake, Los Angeles
- 2014 The 3rd International Conference and Exhibition on Probiotics, Functional & Baby Foods, September 23-25, 2014, Naples, Italy
- 2014 The 2nd International Conference on Bioprocess and Engineering, "Novel Strategies and innovation of Bioprocess and Engineering", Engineering Conferences, Westlake, Los Angeles; June 26-27, 2014, Valencia, Spain
- 2014 Obesity & Weight Management Conference, "Dietary Interventions and Potential Applications to Tackle Obesity" December San Francisco , USA
- 2014 The 3rd International Conference on Earth Science & Climate Change; The Theme: An Insight into the Recent Advancements in Geoscience and Climate Change Control; July 28-30, 2014 San Francisco, USA.
- 2014 The 4th Annual World Congress of Agriculture, "Accelerating Agriculture Modernization": Feeding Technology and Feed Production; August 29-31, 2014; Changchun, China.
- 2013 The 2nd International Conference and Exhibition on Nutritional Science & Therapy", July 15-17, 2013, Philadelphia, USA
- 2013 The 2nd International Conference and Exhibition on Probiotics & Functional Foods, October 23-25, 2013 Probiotics-2013 International Conference, Florida, USA
- 2013 Infrared Thermography Application in Modernization of Animal Reproduction. The 8th Convention of Iranian Veterinary Clinicians & The 2nd Symposium on Ruminant Lameness and its Economical Significance on Animal Products. October 23-25. University of Shiraz, Shiraz, Iran.
- 2013 Infrared Thermography, A Modern Tool to Optimize Lameness Management. Proceedings of The 2nd Equine Health & Disease Congress, April 15-16, University of Shiraz, Shiraz, Iran.

2013 Infrared Thermography Capability in Effective Laminitis Prevention and Management in Dairy Cows. The 8th Convention of Iranian Veterinary Clinicians & The 2nd Symposium on Ruminant Lameness and its Economical Significance on Animal Products. October 23-25. University of Shiraz, Shiraz, Iran.

2013 Infrared Thermography Technology: Economical Management of Modern Animal Industries. The 8th Convention of Iranian Veterinary Clinicians & The 2nd Symposium on Ruminant Lameness and its Economical Significance on Animal Products. University of Shiraz, Shiraz, Iran.

SELECTED COURSES TAUGHT

Undergraduate

- Dairy Cattle Nutrition
- Principal Animal Nutrition and Feeding
- Livestock Feeds & Feeding
- Physiology
- Beef Cattle Production
- Animal Housing Systems
- Animal Sciences & Industries Integration
- Bio-Statistics
- Livestock Feeds & Feeding

Graduate

- Advanced Animal Nutrition
- Technical English for Animal Scientists
- Animal Science Methodologies
- Animal Bio-Statistics
- Ruminant Physiology
- GIT Physiodynamics
- Animal Bio-Energetics
- Feed and Ration Processing Techniques and Properties

- Metabolic Disorders
- Science for the 3rd Millennium Scientists and Non-Scientists
- Principles and Foundations of Science Edification & Dissemination
- Advanced Biostatistics

SELECTED RESEARCH PORGRAMS & INITIATIVES

Animal-Human-Plant Biotechnologies, Pharmaceuticals, BioTechnoPharmaceutics

Human-Ruminant-Poultry Nutritional and Medical Genomics, Proteomics and Metabolomics, Biological Systems Analysis

Veterinary Sciences: Pathology and Etiology of Management Modern Metabolic Diseases & Syndromes e.g., Laminitis, Mastitis, SARA, SAK, Reproductive Inefficiencies, Fatty Liver, Immune Deficiencies, Insulin Resistance

Diabetes Type 2, Developing Practicable & Economical Life-Time Prevention Strategies for Quality Life

Identifying Significant Biological problems, Development of Models to Understand Biochemistry at Organ, Tissue, Cell and Gene-Protein Levels

Grains Processing Technologies for Dairy and Beef Cattle

Steam & Dry Processing of Cereal Grains Grains for High-Producing Lactating Cows

Feeding Timing in Ruminants and Human: Evolutionary Discoveries

Optimizing Feeding Time and Frequency: Lessens from Evolution Physiology

Optimizing Nutrient Use by Modifying Rumen Synchrony: Biochronological Insights into Ruminant Production and Human Evolution

Rumen Synchrony & Optimum Starch Nutrition

Starch & Protein Interactions for Healthy Rumen Fermentation

Effective Fiber from Differently Preserved Alfalfa and Corn Plant

Corn Silage Preservation Quality and Effective Fiber

Revisiting Feeding Systems Efficacy in Modern Dairy and Beef Farms

Wheat Grain Use and Processing for Dairy Cows: An Overlooked Feasibility

Feeding Systems and Feeding Time Interactions on Gene Expression & Lactation Performance

Optimizing Science Higher Education and Edification

Optimizing Teaching/Learning Strategies in Academia

Entrepreneurship: Theory, Practice, and Societal Interventions

Optimizing Education Innovation, Employment and Economics

Economy as Science, Commerce & Goal

Applied Linguistics for New Millennium Science Communication-Dissemination and Life Quality – Optimizing Second and Foreign Languages Teaching Strategies

Bioenvironmental Engineering, Ecological Properties, Pollution & Waste Management, Industrial Development Capacity (Urbanism Principles), GIS Analyses Methods

Global Science Education Philosophies & Pedagogies: Next Generation Critiques and Opportunities

Entrepreneurship, Skill-Training & Employment: Higher and Technical Education Perspectives

Physical Sciences Education Delicacies, Quantum Mechanics Philosophies Simplification & Perception

Among numerous others

SELECTED BOOKS & BOOK CHAPTERS

- 42- Barley Forage for Environmentalist Ruminants: A Distinctive Effective Fiber and Fermentable Energy Entity (A. Nikkhah)pp,177-178Environmental and Agricultural Research Summaries. Volume 2 Editors: Lucille T. Cacioppo ; ISBN: 978-1-63117-061-4, Nova Sci Pub., New York, USA.
- 41- Barley Grain for Rumen and Ruminants: Over-Modernized Uses of an Inimitable Fuel (A. Nikkhah) pp,179-180 Environmental and Agricultural Research Summaries. Volume 2 Editors: Lucille T. Cacioppo ; ISBN: 978-1-63117-061-4, Nova Sci Pub., New York, USA.
- 40- Barley Grain for the Bugs, the Host and the Farmer: A Pearl or a Fiasco (A. Nikkhah)pp,173-174; Environmental and Agricultural Research Summaries. Volume 2 Editors: Lucille T. Cacioppo ; ISBN: 978-1-63117-061-4, Nova Sci Pub., New York, USA.
- 39- Chapter 72Eating Time: An Emerging Life Strategy to Optimize Intermediary Metabolism and Health (Akbar Nikkhah) pp. 143 Medicine Research Summaries. Volume 8; Editors: Zhongwen Liáng and Bibao Zhang; . Nova Science Publishers, Inc, NY, USA
- 38- 2015 The Elite-Creation Art (In Persian), Jahad-e-Daneshgahi Publishers, Zanjan & Tehran, Iran.
- 37- 2015 Chapter 21 Aging Science: An Evolving Public Apprehension (Akbar Nikkhah) pp. 41 Medicine Research Summaries. Volume 8; Editors: Zhongwen Liáng and Bibao Zhang; . Nova Science Publishers, Inc, NY, USA
- 36- 2014 New Theories of Ruminant Feed Intake Regulation (In Persian). Jahade-Daneshgahi Publishers, Tehran & Zanjan, Iran
- 35- 2013 NutriGenomics: An Epi-Innovative Science (In Persian), Jahade-Daneshgahi Publishing, Tehran, Zanjan, Iran
- 34- 2012 Barley for the 21st Century's Ruminant. LAP LAMBERT Publishing, GmbH & Co. KG, Germany.

- 33- 2012 Legume Biotechnopharmaceutics. LAP LAMBERT Publishing, GmbH & Co. KG, Germany, ISBN 978-3-8473-4025-6.
- 32- 2012 Visual Body Condition Score and Peripheral Metabolites and Insulin Responses to High and Low Dietary Energy Density in a Non-Pregnant Dry Cow Model. In Advances in Zoology Research. Volume 4. Nova Science Publishers, Inc, NY, USA
- 31- 2012 Visceral Adiposity and Splanchnic Organ Mass in Non-Pregnant Dry Holstein Cows Offered Higher and Lower Energy Diets. Advances in Zoology Research. Volume 4. Nova Science Publishers, Inc, NY, USA
- 30- 2011 Time of feeding an evolutionary science, LAP LAMBERT Publishing, GmbH & Co. KG, Germany, ISBN 978-3-8473-3260-2.
- 29- 2011 Chronophysiology of nutrient assimilation in ruminants, LAP LAMBERT Publishing, GmbH & Co. KG, Germany, ISBN 978-3-8473-2819-3.
- 28- 2011 Elite science education arts of the new millennium, LAP LAMBERT Publishing, GmbH & Co. KG, Germany, ISBN 978-3-8473-2335-8.
- 27- 2011 Livestock milk for a healthy public. LAP LAMBERT Publishing, GmbH & Co. KG, Germany, ISBN 978-3-8473-1769-2
- 26- 2011 Postmodern theories of ruminant feed intake regulation. LAP LAMBERT Publishing, GmbH & Co. KG, Germany, ISBN 978-3-8473-1152-2
- 25- 2011 Chromium Mediations of Glucose Tolerance: A Dairy Calf Model. In Glucose Tolerance. InTech - Open Access Publisher, Rijeka, Croatia.
- 24- 2011 Eating Time: an Emerging Life Strategy to Optimize Intermediary Metabolism and Health. In Advances in Medical Sciences. Volume 51, Nova Science Publishers, Inc, NY, USA
- 23- 2011 Aging Science: An Evolving Public Apprehension. In Advances in Medical Sciences. Volume 50, Nova Science Publishers, Inc, NY, USA
- 22- 2011 Science for Quality Life. Progress in Education. Nova Science Publishers, Inc, NY, USA
- 21- 2011 The Art of Science Education. Progress in Education. Nova Science Publishers, Inc, NY, USA

- 20- 2011 Timing of Feed Presentation Alters Postprandial Patterns of Rumen Ammonia and Peripheral Urea in Once-Daily-Fed Dairy Cows. Nova Science Publishers, Inc, NY, USA
- 19- 2011 Feed Provision Time (0900 vs. 2100 h) and Diet Effects on Post-Feeding Rhythms of Circulating Urea in Lactating Cows. Nova Science Publishers, Inc, NY, USA
- 18-2011 Structuring Science Education in the New Millennium: Authorizing a Succeeding Integrity. In Progress in Education. Nova Science Publishers, Inc, NY, USA
- 17- 2011 Fresh Ewe Milk Production and Cereal Nutrition: A Peripartal Model. In Milk Production. Nova Science Publishers, NY, USA
- 16- 2011 Ruminants Milk and Human Wellbeing: A Multi-Species Review. In Milk Production. Nova Science Publ., Inc., NY, USA
- 15- 2011 Science and Pseudo-Science in Milk Implications for Humans. In Milk Production. Nova Science Pub., Inc., NY, USA.
- 14- 2011 Milk Production Response Value in Dairy Nutritional Studies and Herd Management Decision Making. In Milk Production. Nova Science Publ., Inc., NY, USA
- 13- 2011 Barley Forages for Environmentalist Ruminants: A Distinctive Effective Fiber and Fermentable Energy Entity. In Barley: Production, Cultivation and Uses. Nova Sci. Publishers, Inc. NY, USA
- 12- 2011 Barley grain for the Bugs, the Host and the Farmer. A Pearl or a Fiasco. In Barley: Production, Cultivation and Uses. Nova Sci. Publishers, Inc., NY, USA
- 11- 2011 Barley Grain for Rumen and Ruminants: Over-Modernized Uses of an Inimitable Fuel In Barley: Production, Cultivation and Uses. Nova Sci. Publishers, Inc. USA
- 10- 2011 Animal and Seasonal Effectors of Cow Behavior in Dairy Houses: An Observational Collection. In Data Collection. Nova Science Publishers, Inc, NY, USA
- 9- 2011 Swift Collection and Quantification of Cow Cervix Morphology Data: Validating a Practical Apparatus. In Data Collection. Nova Science Publishers, Inc, NY, USA

- 8- 2011 Optimizing Barley Grain Use by Dairy Cows: A Betterment of Current Perceptions. In Progress in Food Science and Technology Volume 1. Grain Production. Nova Science Publishers, Inc, NY, USA
- 7- 2011 Wheat Grain in Dairy Rations: A Major Feasible Commodity Overlooked. In Progress in Food Science and Technology Volume 1. Nova Science Publishers, Inc, NY, USA
- 6- 2011 Wheat Grain a Unique Prepartal Choice for Transition Holstein Heifers. In Progress in Food Science and Technology Volume 1. Nova Science Publishers, Inc, NY, USA
- 5- 2011 Dairy Cattle Feeding Guide. In Translation. University of Zanjan, Zanjan, Iran
- 4- 2004 Broiler Breeder Production, 360 pages. Isfahan University of Technology, Isfahan University of Technology Publication Center, Isfahan, Iran
- 3- 2011 Alfalfa the Bountiful Emerging Biofarm Crop: Medicinal Implication. In Alfalfa Properties, Medical Uses and Health Benefits. Nova Sci. Publishers, Inc., NY, USA.
- 2- 2011 Crossroads of Plant and Human BioTechno-Ecology in the New Era: A Leguminous Perspective. In Alfalfa Properties, Medical uses and Health Benefits. Nova Sci., Publ. Inc., NY, USA.
- 1- 2011 Periparturient Ruminant Science – Nova Sci., Publ. Inc., NY, USA.

SELECTED RECENT REFEREED JOURNALS PUBLICATIONS

Recent Research ISI-ISC-PUBMED-SCOPUS Journal Articles

284- Nikkhah A. 2016.

283- Nikkhah A. 2016. Improving Dairy Cow Health through Optimizing Starch Nutrition: A Postmodern Perspective. *Int. J. Vet. Health Sci. Res.* In Press.

282- Nikkhah A. 2016. A Critique of Functional Genomic Tools. *Adv. Genet. Eng.* In Press.

281- Nikkhah A. 2016. Milk and Human Health: A Pragmatic Science. *Adv. Dairy Res.* In Press.

280- Nikkhah A. 2016. Optimizing Human Metabolic Bioprocesses through Intake Timing. *J. Bioprocess. Biotechniq.* In Press.

279- Nikkhah A. 2016. Timing of Appetite to Optimize Cardiovascular Health. *Int. J. Daiabetol. Vasc. Dis.* In Press.

278- Nikkhah A. 2016. Shifting Eating Time Alters Rumen Dynamics in Once-daily Fed Dairy Cows. *J. Veterinar. Sci. Technol.* 7: e123. doi: 10.4172/2157-7579.1000e123.

277- Nikkhah A. 2016. Nutritional Doctorine. *J. Nutr. Health & Food Engineer.* In Press

276- Nikkhah A. 2016. Cutting the Hunger. *Adv. Obesity Weigh Manag Cont.* 4(1): 00077. DOI: 10.15406/aowmc.2016.04.00077.

275- Nikkhah A. 2015. Synchronized Rhythms of Exercise and Eating: A Novel Public Program to Reduce Maternal and Pediatric Diabetes. *Maternal and Paediatric Nutrition Journal* 1:e101. doi:10.4172/mpn.1000e101.

274- Nikkhah A. 2015. Food's Art. *J. Nutr. Health & Food Engineer.* 3(1): 00099. DOI: 10.15406/jnhfe.2015.02.00099.

273- Nikkhah A. 2015. Poem of Art. *J. Nutr. Health & Food Engineer.* 3(1): 00100. DOI: 10.15406/jnhfe.2015.02.00100.

- 272- Nikkhah A. 2015. Life is Art. *J. Nutr. Health & Food Engineer.* 3(1): 00098. DOI: 10.15406/jnhfe.2015.02.00098.
- 271- Nikkhah A. 2015. Healthy Life. *J. Nutr. Health & Food Engineer.* 3(1): 00095. DOI: 10.15406/jnhfe.2015.02.00095.
- 270- Nikkhah A. 2015. Nutritional Wisdom. *J. Nutr. Health & Food Engineer.* 2(6): 00094. DOI: 10.15406/jnhfe.2015.02.00094.
- 269- Nikkhah A. 2015. Daily Exercise: Time for a Global Anti-Obesity Willpower. *Adv. Obes. Weight Manag. Cont.* 3(4): 00063. DOI: 10.15406/aowmc.2015.03.00063.
- 268- Nikkhah A. 2015. Diabetes. *Curr. Res. Diab. Obes. J.* In Press.
- 267- Nikkhah A. 2015. Circadian Rumination: Nutritional Insights. *J. Nutr. Health & Food Engineer.* 2(6): 00091. DOI: 10.15406/jnhfe.2015.02.00091.
- 266- Nikkhah A. 2015. Circadian Ingestion Behaviors: Animal Models Outlooks. *J. Nutr. Health & Food Engineer.* 2(6): 00090. DOI: 10.15406/jnhfe.2015.02.00090.
- 265- Nikkhah. 2015. Nutritional Essence of Beta-Hydroxy Butyrate, Urea and Non-Esterified Fatty Acids: A Ruminant Perspective. *J. Nutr. Health & Food Engineer.* 2(6): 00089. DOI: 10.15406/jnhfe.2015.02.00089.
- 264- Nikkhah A. 2015. Nutritional Science of Glucose and Lactate. *J. Nutr. Health & Food Engineer.* 2(6): 00088. DOI: 10.15406/jnhfe.2015.02.00088.
- 263- Nikkhah A. 2015. Nutritional Optimization of Physiological Rhythms: A Rising Innovation. *J. Nutr. Health & Food Engineer.* 2(6): 00087. DOI: 10.15406/jnhfe.2015.02.00087.
- 262- Nikkhah A. 2015. Body Reserves, Pregnancy, Parturition and Appetite: Vigorous Management of Food Intake. *J. Nutr. Health & Food Engineer.* 2(6): 00086. DOI: 10.15406/jnhfe.2015.02.00086.
- 261- Nikkhah A. 2015. Endocrinological Regulation of Food Intake: A Coping Science. *J. Nutr. Health & Food Engineer.* 2(6): 00084. DOI: 10.15406/jnhfe.2015.02.00084.
- 260- Nikkhah A. 2015. Cutting Edges of Science Edification: The Power of Economy. *Glob. J. Med. Res.* In Press.

- 259- Nikkhah A. 2015. Insulin Chronophysiology: A Nutritional Wisdom. *J. Nutr. Health & Food Engineer.* 2(6):00081. DOI: 10.15406/jnhfe.2015.02.00081.
- 258- Nikkhah A. 2015. Plant Omics Biotechnologies: Probiotics or Antibiotics. *J Prob Health* 3: e122. doi:10.4172/2329-8901.1000e122.
- 257- Nikkhah A. 2015. Timing of Intake and Exercise: Creating a Public Probiotic. *J Prob Health* 3: e123. doi:10.4172/2329-8901.1000e123.
- 256- Nikkhah A. 2015. Outdoor Physical Work: A Forgotten Probiotic. *J Prob Health* 3: e121. doi:10.4172/2329-8901.1000e121.
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- 103- Nikkhah A, H Safari. 2013. Infrared Thermography Application in Modernization of Animal Reproduction. The 8th Convention of Iranian Veterinary Clinicians & The 2nd Symposium on Ruminant Lameness and its Economical Significance on Animal Products. October 23-25. University of Shiraz, Shiraz, Iran.
- 102- Nikkhah A, H Safari. 2013. Infrared Thermography Capability in Effective Laminitis Prevention and Management in Dairy Cows. The 8th Convention of Iranian Veterinary Clinicians & The 2nd Symposium on Ruminant Lameness and its Economical Significance on Animal Products. October 23-25. University of Shiraz, Shiraz, Iran.
- 101- Nikkhah A, H Safari. 2013. Infrared Thermography Technology: Economical Management of Modern Animal Industries. The 8th Convention of Iranian Veterinary Clinicians & The 2nd Symposium on Ruminant Lameness and its Economical Significance on Animal Products. October 23-25. University of Shiraz, Shiraz, Iran.
- 100- Nikkhah A, Kianzad D, Safari H, Mansoori A, Hajhosseini A, Zalbeyk A. 2013. Protected methionine prolonged provision improves summer production of early lactation cows. The 4th National Conference of Iranian Holstein Association. Scientific & Industrial Research Organization of Iran, December 17-18, Tehran, Iran.

- 99- Nikkhah A, Kianzad D, Mansoori A, Safari H, Hajhosseini A, Zalbeyk A. 2013. Prolonged protected methionine effects on reproduction in heat-stressed high-producing dairy cows. The 4th National Conference of Iranian Holstein Association. Scientific & Industrial Research Organization of Iran, December 17-18, Tehran, Iran.
- 98- Nikkhah A, S Karimzadeh. 2013. A Novel Technology of Imaging and Scoring Cervix Physiology in Dairy Cows. The 1st National Conference on Stable Agriculture and Natural Resources, December 20th, Tehran, Iran.
- 97- Naghdi F, A Nikkhah. 2013. Modeling East Azarbaijan's Eco-Environmental Capacities for Industrial Development. International Conference on Civil Engineering, Architecture & Urban Sustainable Development. November 27-28, Islamic Azad University, Tabriz Branch, Tabriz, Iran
- 95- Nikkhah A. 2013. Nervo-Immuno-Hormonal Pathology of Equine Laminitis. Proceedings of The 2nd Equine Health & Disease Congress, April 15-16, University of Shiraz, Shiraz, Iran.
- 96- Naghdi F, A Nikkhah. 2013. Land Planning and Zoning of East Azarbayjan using Multifactorial Evaluation and AHP. The 1st National E-Conference on Environment, BioDefence, and Energy, November 20th. Mehr-Arvand Higher Education Institution, Tehran, Iran.
- 94-Nikkhah, A. 2012. Effects of evening vs. morning total mixed ration delivery on rumen microbial protein synthesis ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meetings, Phoenix, Arizona, USA.
- 93- Rafiei, S., A.Nikkhah. Optimizing Academic Education Efficacy in the New Era: Challenges Management. The National Symposium on Pscycologic-Training Challenges of Education Systems the Current Era, May 2012, University of Mlayer, Iran.
- 92-Nikkhah, A. 2012.Feed provision time (2100 vs. 0900 h) and milk fatty acids profiles. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meetings, Phoenix, Arizona, USA.
- 91-Nikkhah, A. 2012.Feeding time a chronophysiological controller of post-feeding intake rhythms in dairy cows. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meetings, Phoenix, Arizona, USA.

- 90-Nikkhah, A. 2012. Timing of mixed ration provision regulates eating behavior of lactating dairy cows. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meetings, Phoenix, Arizona, USA.
- 89-Nikkhah, A. 2012. Time of feed presentation orchestrates periprandial rhythms of peripheral blood glucose in lactating dairy cows. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meetings, Phoenix, Arizona, USA.
- 88-Nikkhah, A. 2012. Orchestration of circadian peripheral non-esterified fatty acids patterns in lactating dairy cows: feeding time and diet effects. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meetings, Phoenix, Arizona, USA.
- 87-Nikkhah, A. 2012. Circadian rhythms of peripheral β -hydroxybutyrate in morning- vs. evening-fed lactating cows. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meetings, Phoenix, Arizona, USA.
- 86-Nikkhah, A. 2012. Circulating lactate circadian rhythmicity in dairy cows fed once daily in evening vs. morning. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meetings, Phoenix, Arizona, USA.
- 85-Nikkhah, A. 2012. Periprandial peripheral lactate rhythmicity in lactating cows: feeding time and diet effects. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meetings, Phoenix, Arizona, USA.
- 84-Nikkhah, A. 2012. Time of feed presentation orchestrates periprandial rhythms of peripheral blood glucose in lactating dairy cows. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meetings, Phoenix, Arizona, USA.
- 83-Nikkhah, A. 2012. Feeding time regulation of circadian and postprandial peripheral blood glucose patterns in high-producing lactating cows. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meetings, Phoenix, Arizona, USA.
- 82- Nikkhah, A. 2012. An economical farm technology to quantify and monitor oestrus cervix morphology in lactating dairy cows. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meetings, Phoenix, Arizona, USA.
- 81- Nikkhah, A. 2012. An evolutionary insight into rumen ecology. The First Dairy and Related Industries Congress. Bahman 28, 1390, Qom, Iran
- 80- Nikkhah, A., M. Nikkhah 2012. Optimizing Postmodern Academic Science Education. The 2nd International Conference of the Iranian Higher Education Association (IHEA): Theories and Experiences. Mazandaran University, Iran.

- 79- Nikkhah, A. 2011. Timing of Feed Delivery Entraines Periprandial rhythms of Rumen Ammonia and Peripheral Urea in Dairy Cows. Accepted, ADSA/ASAS Midwest meetings, Des Moines, Iowa, USA.
- 78- Nikkhah, A. 2011. Periparturient Ewe Insulin Efficiency and Energetics: Manipulation via Cereal Management. ADSA/ASAS Midwest meetings, Des Moines, Iowa, USA.
- 77- Nikkhah, A. 2011. Feed Presentation Time and Diet Effects on Postprandial Patterns of Peripheral Urea in Once-Daily-Fed Lactating Dairy Cows. Accepted, ADSA/ASAS Midwest meetings, Des Moines, Iowa, USA.
- 76- Nikkhah, A. 2011. Feasibility of Improving Energy Metabolism by Feeding Early-Lactation Cows Less Frequently. Accepted, ADSA/ASAS Midwest meetings, Des Moines, Iowa, USA.
- 75- Nikkhah, A. 2011. Feasibility of Elevating Serum Insulin in Early Lactation Cows: May Feed Less Frequently (1× vs. 4×). Accepted, International Conference for Animal Endocrinology, Bern, Swiss.
- 74- Nikkhah, A. 2011. Manipulating Periparturient Insulin Efficiency and Energy Dynamics in Afshari × Merino Ewes: Cereal Grains Management. Accepted, International Conference for Animal Endocrinology, Bern, Swiss.
- 73- Nikkhah, A. 2011. Optimizing Barley Grain Feeding and Processing for Postmodern Dairy Cows. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 72- Nikkhah, A. 2011. Ground Broomcorn in Dairy Rations. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 71- Nikkhah, A. 2011. Steam-Flaked Broom Sorghum a Viable Substitute for Barley Grain in Mid-Lactation Dairy Rations. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 70- Nikkhah, A. 2011. Rumen Degradation Patterns of Ground and Steam-Processed Broomcorn vs. Ground Barley. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 69- Nikkhah, A. 2011. Steam-Flaking of Broom Sorghum Improves Effective Rumen Degradation of DM while Controlling that of CP. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.

- 68- Nikkhah, A., J.C. Plaizier, A.D. Kennedy. 2011. Rumen Volume and Passage Kinetics Depend on Feeding Time (0900 vs. 2100 h). Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 67- Nikkhah, A., F. Amiri, F. Ehsanbakhsh, D. Zahmatkesh, H. Amanloo. 2011. Ground Wheat Grain in Dairy Rations: Reality ahead of Knowledge. ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 66- Nikkhah, A., G. Ghorbani. 2011. Milk and Plasma Iodine in Isfahan Holstein Dairy Cows. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 65- Nikkhah, A., Nasrollahi¹, S.M., M Khorvash, and G. R. Ghorbani. Alfalfa hay particle size and grain source effects on fecal particle size and fermentability in midlactation cows. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 64- Nikkhah, A., Nasrollahi, S. M., B. Rad, S. Khorsandi, M. Forutan, and S. P. Emamypanah. Textured vs. Ground Starter Effects on Holstein Calves Chewing. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 63- Nikkhah, A., M.A. Sirjani, S.M. Karimzadeh. 2011. Altered Cervical Morphology in Relation to Rectal Temperature during Oestrus Phases in Dairy Cows. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 62- Nikkhah, A., D. Kianzad, A. Hajihosseini, G. Ghorbani. 2011. Prolonged Provision of Protected Methionine Improves Milk Contents and Yields of Fat and Protein in Early-Mid Lactation Cows. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 61- Nikkhah, A., R. Kowsar, G. Ghorbani. 2011. Large-Scale Production Effects of an Intestinally Releasable Methionine Met Product in Dairy Cows. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 60- Nikkhah, A. and M. Karam-Babaei. 2011. Cereal Nutrition of Periparturient Ewes: Corn versus Barley-Wheat grains. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 59- Nikkhah, A., S.M. Karimzadeh, M.A. Sirjani, A.A. Assadzadeh. 2011. Proestrus, Estrus, Diestrus and Metestrus Quantification of Cervix Physiology in Dairy Cows: A Farm Innovation. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.

- 58- Nikkhah, M.A. Sirjani, A.A. Assadzadeh, H. Amanloo. 2011. Differentiation of Estrus vs. Non-Estrus Cow Cervix Morphology: Verification of a Cost-Effective Methodology. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 57- A. Nikkhah, S.M. Karimzadeh, B. Sorkhroo, S. Asghari, M. AvazKhanloo, L. BahramkhaniZarrinGoli. 2011. Feeding Frequency for Individually Fed Early Lactation Cows: Enlightening the Perplexing Strategy. Accepted, ADSA/ASAS Joint Annual Meetings, New Orleans, Louisiana, USA.
- 56- Nikkhah, A.; Karimzadeh, S.M., 2011: A new economical farm technology to monitor cow cervix morphology. Accepted, "ICAR Annual Workshop: New Technologies and New Challenges for Breeding and Herd Management", Accepted, FGE/ICAR 2011, June 22-24, Bourg en Bresse, France.
- 55- Karimzadeh, S.M., A. Nikkhah. 2011. Feeding frequency an arcane strategy: Early lactation cow production. Accepted, ADSA/ASAS Midwest meetings, Des Moines, Iowa, USA.
- 54- Nikkhah, A., S.M. Karimzadeh. 2011. Frequency of TMR delivery and feeding behavior of individually fed early lactation cows. Accepted, ADSA/ASAS Midwest Meetings, Des Moines, Iowa, USA.
- 53- Nikkhah, A., F. Amiri, H. Amanlou. 2011. Ground wheat grain major inclusion in dairy diets: challenging a conventional wisdom. Accepted, ADSA/ASAS Midwest Meetings, Des Moines, Iowa, USA.
- 52- Nikkhah, A. R. Kowsar, M. Khorvash, G.R. Ghorbani. 2010. Seasonal Cow Behavior in a Large Dairy Herd in Iran: Health and Social Implications. International Conference on Production Disease (ICPD), Ghent, Belgium.
- 51- Nikkhah, A., F. Amiri, H. Khanaki, H. Amanlou. 2010. Wheat in Dairy Diets: An Economical Choice Overlooked. European Association for Animal Production (EAAP), H, Greece.
- 50- Karimzadeh, S.M., A. Nikkhah, H. Amanlou. 2010. Designing, manufacturing and validating a cervix monitoring device for optimum estrus detection and reproduction management in ruminants. The 4th Iranian Society of Animal Sciences' Congress, Pardis, Karaj, Iran.
- 49- Nikkhah, A. J. Loor, R. Wallace, D. Graugnard, J. Vasquez, B. Richards, and J. Drackley. 2010. Do not judge the dry cow by her look. 2010. Spec J AnimSciDepZan Univ.

- 48- Nikkhah, A. J. Loor, R. Wallace, D. Graugnard, J. Vasquez, B. Richards, and J. Drackley. 2009. Free-choice access to a moderate-energy diet increases internal body fat in dairy cows. Illinois Dairy Report. IL, USA. <http://www.livestocktrail.uiuc.edu/dairynet/paperDisplay.cfm?ContentID=10115>
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- 46- Ferdowsi Nia, E., G.R. Ghorbani, H.R. Rahmani, M. Alikhani, M. Mohammad Alipour, A. Nikkhah. 2009. Colostral somatic cell counts and calf immunity, health and growth. Accepted. J. Dairy Sci. Midwest Meetings of ADSA/ASAS, Des Moines, Iowa.
- 45- Kowsar, R., A. Nikkhah, M. Khorvash, M. Alikhani, G.R. Ghorbani. 2009. Seasonal cow behavior in a large dairy herd in central Iran. J. Dairy Sci. ADSA/ASAS/CSAS Meetings in Montreal, Canada.
- 44- Ghaempour, A., G.R. Ghorbani, M. Khorvash, A. Nikkhah. 2009. Inoculants for low-dry matter corn crop ensilage and performance of lactating dairy cows. J. Dairy Sci. ADSA/ASAS/CSAS Meetings in Montreal, Canada.
- 43- Mirzaei, M., G.R. Ghorbani, M. Khorvash, H. Rahmani, A. Nikkhah. 2009. Chromium eases coincident challenges of early-lactation and heat stress. Accepted by the XIth International Symposium on Ruminant Physiology during September 5-10, Clermont-Ferrand, France.
- 42- Ji, P., J. J. Loor, A. Nikkhah, M. Bionaz, N. A. Janovick, and J. K. Drackley. 2009. Changes in deposition of visceral adipose tissues and expression of lipogenesis-related genes induced by diets with different energy levels in non-lactating cows. J. Dairy Sci. 92:150.
- 41- HashemzadehCigari, M. Khorvash, G.R. Ghorbani, A. Nikkhah. 2009. Effects of wilting molasses and inoculants on alfalfa silage nutritional properties. J. Dairy Sci. ADSA/ASAS/CSAS Meetings in Montreal, Canada.
- 40- Mirzaei, M., G.R. Ghorbani, M. Khorvash, H. Rahmani, A. Nikkhah. 2009. Metabolic and productive responses to supplemental chromium in early-lactation heat-stressed cows. J. Dairy Sci. ADSA/ASAS/CSAS Meetings in Montreal, Canada.
- 39- Alizadeh, A., G.R. Ghorbani, Alikhani, H.R. Rahmani, A. Nikkhah. 2009. Effective use of safflower seeds in early lactation diets with alfalfa hay and corn silage. J. Dairy Sci. ADSA/ASAS/CSAS Meetings in Montreal, Canada.

- 38- Ehsanbakhsh, F., H. Amanlou, D. Zahmatkesh, A. Nikkhah. 2009. Wheat grain eases metabolic transitions in periparturient Holstein heifers. J. Dairy Sci. ADSA/ASAS/CSAS Meetings in Montreal, Canada.
- 37- Ghaempour, A., G.R. Ghorbani, M. Khorvash, A. Nikkhah. 2009. Inoculants for low-dry matter corn crop ensilage: An ongoing question. Accepted. Int. Symp. Rumin. Physiol. Clermont-Ferrand, France, Sep 6-9.
- 36- Nikkhah, A., Looor, J.J., Wallace, R.L., Graugnard, D., Vasquez, J., Richards, B.F., Drackley, J.K. 2008. Moderate excesses of dietary energy markedly increase visceral adipose tissue mass in nonlactating dairy cows. Late-Breaking Research Session. J. Dairy Sci.
- 35- Soltani, A., G. R. Ghorbani¹, M. Alikhani¹, A. Nikkhah. 2008. Ground vs steam-rolled barley grain for lactating cows: A clarification into conventional beliefs. J. Dairy Sci. 91(Suppl. 1):530.
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- 33- Jahani-Moghadam, M. H. Amanlou, A. Nikkhah. 2008. Response in feed intake, blood metabolites, and milk production to varying ruminal protein undegradability in early lactation Holstein cows. J. Dairy Sci. 91(Suppl. 1):486.
- 32- Noroozi, M., H. Amanlou, G. R. Ghorbani, A. Nikkhah. 2008. Wheat, barley, or corn grain based starters with different alfalfa meal levels for Holstein calves. J. Dairy Sci. 91(Suppl. 1):69.
- 38- Nikkhah, A., Amanlou, H., D. Zahmatkesh, 2007. Wheat grain as a cereal choice to ease periparturient stress in Holstein cows. Dairy Sci. 90 (Suppl. 1): 453.
- 31- Nikkhah, A., J. C. Plaizier, C. J. Furedi, G. H. Crow, and A. D. Kennedy, 2007. Time of feeding: A determinant of post feeding patterns in feed intake of lactating cows. Dairy Sci. 90 (Suppl. 1): 559.
- 30- Nikkhah, A., J. C. Plaizier, C. J. Furedi, A. D. Kennedy, G. H. Crow, and K. M. Wittenberg. 2007. Evening Feeding Improves Nutrient Digestibility and Nitrogen Balance in Lactating Holsteins. Dairy Sci. 90 (Suppl. 1): 559.
- 29- Ghorbani, G.R., R. Kowsar, M. Alikhani, A. Nikkhah. 2007. Partial replacement of whole milk with soymilk stimulates early starter intake, saves milk, and reduces weaning age and cost. Dairy Sci. 90 (Suppl. 1): 113.

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- 27- Amanlou, H., D. Zahmatkesh, Nikkhah, A.. 2007. Wheat grain in close-up diet for a smooth transition of Holstein cows into lactation. *Dairy Sci.* 90 (Suppl. 1): 453-454.
- 26- Nikkhah, A., G.R. Ghorbani, R. Kowsarzar, M. Alikhani. 2007. Optimizing alfalfa hay to corn silage ration in active fat supplemented and highly fermentable dairy diets. Presented at the Joint Meeting of CSAS/ Winnipeg, July 2007.
- 25- Nikkhah, A., J.C. Plaizier, C. Furedi, A.D. Kennedy. 2006. Diurnal Pattern in Feed Intake of Evening and Morning Fed Lactating Dairy Cows. Presented at the annual meeting of CSAS in Halifax, NS in August.
- 24- Nikkhah, A., J. C. Plaizier, C. Furedi, A. D. Kennedy. 2006. Nitrogen metabolism in evening and morning fed cows. Page. Proceedings of the 27th Western Nutrition Conference, Winnipeg, MB, Canada.
- 23- Nikkhah, A., J.C.B. Plaizier, C. Furedi, A. Kennedy. 2006. Time of Feeding and 24-h Variations of Rumen Fermentation in Lactating Holsteins. Presented at the annual meeting of CSAS in Halifax, NS, Aug 1-4.
- 22- Nikkhah, A., J.C.Plaizier, C. Furedi, A. Kennedy. 2006. Impact of Providing Total Mixed Ration at 9 am vs 9 pm on Feed intake, Rumen pH, and Productivity of Lactating Holsteins *J. Anim. Sci.* 84, Suppl. 1/*J. Dairy Sci.* 89, Suppl. 1: 296-297.
- 21- Nikkhah, A., J.C.Plaizier, C. Furedi, A. Kennedy. 2006. Response in Diurnal Variation of Circulating Blood Metabolites to Nocturnal vs Diurnal Provision of Fresh Feed in Lactating Cows. *J. Anim. Sci.* 84, Suppl. 1/*J. Dairy Sci.* 89, Suppl 1: 111.
- 20- Ghorbani, G.R., D. Kianzad, M. Alikhani, A. Nikkhah. 2006. Rumen-Protected Methionine for Early Lactation Holsteins under High Ambient Temperatures. Presented at the annual meeting of CSAS in Halifax, NS, Aug 1-4.
- 19- Plaizier, J.C., S. Wamness, E. Khafipoor, A. Nikkhah, D.O. Krause. 2006. Effects of grain induced subacuteruminal acidosis (SARA) on feeding behaviour of dairy cows. Presented at the annual meeting of CSAS in Halifax, NS, Aug 1-4.

- 18- Najafi, A., G. R. Ghorbani, M. Alikhani, A. Nikkhah. 2006. Quality Assessment of Drinking Water Offered to Dairy Cows in Central Iran. *J. Anim. Sci.* 84, Suppl. 1/*J. Dairy Sci.* 89, Suppl 1: 227.
- 17- Furedi, C., A.D. Kennedy, A. Nikkhah, J.C. Plaizier. 2006. Glucose Tolerance and Diurnal Variation of Circulating Insulin in Evening and Morning Fed Lactating Cows. Presented at Western Canadian Dairy Seminar, Mar 8-11, Red Deer, AB.
- 16- Ghorbani, G.R., A. Jafari, A. Samie, A. Nikkhah. 2006. Effect of Applying Exogenous, Non-starch Polysaccharidases to Pre-weaning Starter Diet on Performance of Holstein Calves. *J. Anim. Sci.* 84, Suppl. 1/*J. Dairy Sci.* 89, Suppl 1: 362-363.
- 15- Ghorbani, G.R., M. BagheriVarzaneh, A. Nikkhah. 2006. Comparison of Conventional Ground and Commercial Pelleted Starters for Holstein Calves. *J. Anim. Sci.* 84, Suppl. 1/*J. Dairy Sci.* 89, Suppl 1: 363.
- 14- Maesoomi, S.M., G.R. Ghorbani, A. Nikkhah. 2005. Effect of substitution of cottonseed meal by canola meal on milk yield and apparent digestibility of dry matter, organic matter, and crude protein in diets of dairy cows. *Wageningen Acad. Pub. EAAP 2005 (11): 54-60.*
- 13- Plaizier, J.C., A. Fairfield, P. A. Azevedo, A. Nikkhah, T.F. Duffield, G.H. Crow, R. Bagg, P. Dick, and B.W. McBride. 2005. Effects of monensin on diurnal rhythmicity of blood metabolites in dairy cows at different stages of lactation. *ADSA/ASAS/CSAS Joint Meeting, Cincinnati, OH.*
- 12- Ghorbani, G.R., A. Jafari, A. Nikkhah. 2005. Fibrolytic enzymes in dairy calf starter. Presented at the 56th annual meeting of EAAP in Uppsala, Sweden.
- 11- Nikkhah, A., Sadri, H., G. Ghorbani, M. Alikahni. 2005. Processing barley grain for midlactation cows: Steam-rolling vs grinding. *J. Dairy Sci.* 88 Suppl. 1: 78-79.
- 10- Nikkhah, A., J. Plaizier, C. Furedi, A. Kennedy. 2005. Effects of time of feeding and forage to concentrate ratio on rumen fermentation and productivity of lactating dairy cows. *J. Dairy Sci.* 88 Suppl. 1: 186.
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- 8- Nikkhah, A., J. Plaizier, C. Furedi, A. Kennedy. 2005. Effects of Diet and Time of Feeding on Productivity, Rumen pH, and Blood Metabolites of Lactating Dairy Cows. *Proc. Western Canadian Dairy Seminar, Red Deer, AB, March 8-11.*

- 7- Ghorbani, G., A. Nikkhah. 2005. Nitrogen fractionation and fiber analysis of commercial nonforage fiber sources for ruminants in central Iran. *J. Dairy Sci.* 88 Suppl. 1: 311.
- 6- Plaizier, J.C., D. Fulawka, A. Nikkhah, A.D. Kennedy. 2005. Effects of feeding time and forage to concentrate ratio on water intake and drinking behavior of dairy cows. *J. Dairy Sci.* 88 Suppl. 1: 188.
- 5- Nikkhah, A., J. Plaizier, M. Einarson, R. Berry, S. Scott, A. Kennedy. 2004. Infrared thermography for early detection of laminitis in dairy cows. *Can. J. Anim. Sci.* 84: 760-761.
- 4- Nikkhah, A., G. Ghorbani. 2003. Ruminal characteristics of processed barley grain. *Animal Production Conference.* October in Brazil.
- 3- Nikkhah, A., G.R. Ghorbani. 2003. Effects of dry and steam processing on in situ ruminal digestion kinetics of barley grain. *J. Anim. Sci.* 81: 338 (Suppl. 1).
- 2- Nikkhah, A., G. Ghorbani. 2003. Ruminal characteristics of processed barley grain. *Animal Production Conference.* October in Brazil.
- 1- Nikkhah, A., G.R.Ghorbani. 2003. Effects of dry and steam processing on in situ ruminal digestion kinetics of barley grain. *J. Anim. Sci.* 81: 338 (Suppl. 1).

SELECTED CERTIFICATES

- 2006 Leadership & Management Program, University of Manitoba, Winnipeg, MB, Canada
- 2005 Academic Writing and Journal Editing, University of Manitoba, MB, Canada
- 2005 Arts Teaching Assistant Certificate, University of Manitoba, Winnipeg, MB, Canada
- 2004 Animal Care & Use Training Program, University of Manitoba, Canada

1999 Artificial Insemination Training Program, Ministry of Agriculture, Qazvin, Iran

SELECTED SOCIETY MEMBERSHIPS

- Iranian Society of Animal Science (IAAS)
- Iranian Association for Higher Education (IAHE)
- American Dairy Science Association (ADSA)
- Canadian Society of Animal Science (CSAS)
- American Society of Animal Science (ASAS)
- Iranian Society of Environmental Engineering & Sustainable Development (ISEESD)
- American Research Institute for Policy Development (ARIPD)
- American Association of International Researchers (ASIR)
- American Association for Science and Technology (AASCIT)
- Manitoba Hossaini Association (MSA), Winnipeg, Canada
- World Academy of Science, Engineering and Technology (WASET)

And many others

SELECTED RESEARCH, ADVISORY & EXTENSION-OUTREACH SERVICES RESPONSIBILITIES

In Iran: Department of Animal Sciences, Zanjan University.

Department of Animal Science, Isfahan University of Technology.

US: Department of Animal Sciences, University of Illinois in Urbana-Champaign

Canada, University of Manitoba, Canada

Globally: Mentoring numerous scientists and postgraduate students/mentees overseas e.g., eastern and south eastern Asia, Canada, USA, Iran

2001-2003 Research & Science leadership and Mentorship, Isfahan University of Technology

1999-2002 Research Leader, Isfahan University of Technology "Efficient processing of cereal grains for lactating cows", Isfahan University of Technology (IUT), Isfahan-Iran

2000-2001 Commercial and Science Manager in Commercial Sepahan Broiler Breeder Facilities with 250,000 breeders, KooHPayeh, Isfahan, Iran

1997-1998 Science Advisor and Farm Manager, Zanjan Broiler Corporation with 40,000 broilers, Zanjan, Iran, Nutritional & environmental management

1998 Trainee \ Trainer in Magsal Dairy Enterprise, > 5000 dairy cattle, Qazvin, Iran

1998 Trainee / Trainer in commercial laying hen facilities, 300,000 laying hens in Bonab, east Azerbaijan, Iran

1997 Trainer in semi-intensive sheep production system, 500 sheep, Zanjan, Iran

And numerous other outreach services to modern and traditional animal/ruminant/poultry farms

AMONG GRADUATE STUDENTS & MENTEES SUPERVISED & MENTORED

- FaridehNaghdi, PhD Candidate, BioEnvironment& Ecology, Islamic Azad University, Science & Research Branch, Tehran, Iran
- Ali Reza Alizadeh, PhD Candidate, Isfahan University of Technology
- DavoodZahmatkesh, PhD student, University of Zanjan
- H Amanlou, University of Zanjan
- J Plaizier, University of Manitoba
- J Drakly, University of Illinois
- G Ghorbani, Isfahan University of Technology
- M Alikhani, Isfahan University of Technology
- SeyedMahdiKarimzadeh, MSc Candidate, University of Zanjan
- Majid KaramBabaei, MSc Candidate, University of Zanjan
- Amir Mohammad, MSc candidate, University of Zanjan
- HosseinEimani, MSc candidate, University of Zanjan
- SaeidYavarpour, MSc candidate, University of Zanjan
- Mohammad J. Yaghoubi, MSc Candidate, IsfahanUniversity of Technology
- RasoolKowsar, MSc Candidate, IsfahanUniversity of Technology
- FarzadAmiri, MSc Candidate,IsfahanUniversity of Technology
- FarzadHashemzadeh, MSc Candidate, IsfahanUniversity of Technology
- Mehdi Mirzaei, MSc Candidate,IsfahanUniversity of Technology
- Akbar Ghaempour, MSc Candidate, IsfahanUniversity of Technology
- MojtabaYari, MSc Candidate, IsfahanUniversity of Technology
- EbrahimFerdowsi Nia, MSc Candidate, IsfahanUniversity of Technology
- Hojjat Safari, MSc candidate, University of Zanjan
- JahaniMoghaddam, MSc Candidate, Islamic Azad University, Karaj, Iran
- ImanChaksari, BSc candidate, University of Zanjan
- ElhamMokhtari, BSc candidate, University of Zanjan
- LeyliBahramkhani, BSc candidate, University of Zanjan
- NedaLyaieiBbaei, BSc student, University of Zanjan, Iran
- MaesoomehAvazkhanloo, BSc student, University of Zanjan
- Samaneh , BSc student, University of Zanjan, Iran
- Fariba , BSc student, University of Zanjan, Iran
- ParvaneMarvashi, BSc student, University of Zanjan, Iran
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SELECTED MOST RECENT SIGNIFICANT RESEARCH ACCOMPLISHMENTS

1) Restructuring, transforming and refining the essence of 'Science' for ever-advancing human life in the 3rd millennium and on.

2) Advancing the current understanding of energy dynamics in periparturient cows. Using a non-pregnant dry cow model at the University of Illinois, we have most recently found that ad libitum access to a moderate energy diet compared to a lower energy, bulkier and high-straw diet markedly increased internal adipose tissue mass including omental, mesenteric and perirenal fat depots without detectable differences in body condition score or the visual indicator of external fat accretion. Evidence was provided that BCS offered no or little information on accurate transition energy partitioning. Visceral adipose tissue may contribute substantively to periparturient hepatic lipidosis that may be avoided by decreasing dry cow dietary energy. A theatre presentation of the findings was invited and given at the Late-Breaking Abstract session of the ADSA/ASAS meetings in Indianapolis on July 7, 2008.

3) Optimizing the nutritive value of broom sorghum grain by steam-processing for lactating cows. This project led to introducing broom sorghum grain as an alternative, economical energy and protein source for barley grain to the dairy industry in Iran. Steam-flaking instead of grinding of broom sorghum grain improved milk yield by 10-15%. This progress in optimizing broom sorghum grain value for ruminants has been considered a major advancement in the economy of hard-cereal-based dairy facilities. Results were published in the Journal of Dairy Science (Nikkhah et al., 2004) and were awarded by the Isfahan University of Technology.

4) Introducing canola meal as an economical dietary substitute for cottonseed meal to the world dairy industry. Rapeseed contains excessive amount of toxic chemicals making it inappropriate for both human and livestock uses. Thus, canola seed has emerged by genetic manipulation of rapeseed. Canola seed is used extensively to harvest oil for human nutrition. The residues of oil extraction, or canola meal, serve the ruminant industry as a high-quality protein meal. Our on-going research has demonstrated that daily offer of 3.6 kg canola meal instead of 5.5 kg cottonseed meal improves digestibility and milk protein content and maintains milk yield of midlactation cows. Findings were published in Journal of Dairy Science (Maesoomi et al., 2006).

5) Translating a major textbook of Broiler Breeder Production (BBP) for poultry scientists, extensionists, students, engineers, and farmers in Iran. Despite its utmost significance in supplying broiler flocks, BBP has received little attention in academia. Scientists at Guelph University (Leeson and Summers, 2000) compiled to-date research findings as an excellent book of "Broiler Breeder Production". Considering the scarcity of documented, research-based textbooks, I decided to translate that book from its English origin to Farsi under a former teacher of mine, Dr. J. Pourreza. The book is an essential source of both applied and theoretical guidelines in BBP. The book will hence greatly benefit animal science students, and researchers, nutritional consultants, veterinaries and farmers working in poultry industry.

6) Infrared Thermography (IRT) as a novel approach to monitor hoof health in lactating cows. Working in a team-project at University of Manitoba, I was among a group who hypothesized that hoof lesions are preceded with prolonged inflammation resulting in higher hoof temperatures. Therefore, by monitoring hoof temperature, we should be able to monitor hoof health. This will aid monitoring and treating individual cows long before the severe hoof damages appear. Novel results provided strong evidence that relationship exists between the hoof temperature and the incidence of sole hemorrhages in lactating cows. I orally presented the findings at the annual meeting of the Canadian Society of Animal Science in Edmonton (July 2004) and won a prize in the Graduate Student Competition. Findings were published in Journal of Dairy Science (Nikkhah et al., 2005).

7) Introducing soymilk as a novel partial milk replacer to stimulate early calf starter intake and reduce weaning age and costs. In a pre-weaning calf study, we have recently demonstrated that replacing 25 and 50% of whole milk with soymilk led Holstein calves to reach weaning age (a daily intake of 900 g starter) about 10-12 days earlier without compromising calf health. Given the much lower price of soymilk and starter concentrate compared to whole milk, feed related weaning costs dropped by as much as 35% in soymilk fed calves. Findings were published in Journal of Dairy Science (Ghorbani et al., 2007).

8) Optimizing forage use in total mixed rations (TMR). Working with researchers at Isfahan University of Technology, we developed a theory that optimum forage fiber use in TMR necessitates an increase in forage palatability that requires given mixtures of ensiled and non-ensiled forages. Findings demonstrated that an approximate 50:50 ratio of short-length alfalfa hay (to reduce sorting behavior) and corn silage in the TMR increased both NEL and physically effective NDF simultaneously, and as a result, improved rumen fermentation, chewing activity and milk production. A paper was recently accepted for publication in the J. Dairy Sci.

9) Clarifying conventional beliefs on optimum use and processing of cereal starch for high-producing ruminants. It has conventionally been thought that optimizing the use of rapidly digestible grains can be realized only with manipulating processing methods. However, no major and crucial thought has concentrated on optimum dietary inclusion rate of grains such as barley. In a recent publication of ours in Journal of Dairy Science, this thought was substantiated that optimizing cow production requires careful optimization of dietary cereal use. Research continues to illuminate further aspects of the theory in different cows.

10) Validating a cost-effective technology for recording, processing, and quantifying cervical morphology in dairy cattle

11) Innovative Novel Pathways for Optimizing Developing Economies

12) Optimizing Science Education in Lower and Higher Education: Arts Perspectives

Among numerous others