

CURRICULUM VITAE

ALI AKBAR MASOUDI. Ph.D (Associate Professor)

Department of Animal Science,
Faculty of Agriculture,
Tarbiat Modares University,
P.O.Box: 14115-336,
Iran

Date of birth: 1972

Nationality: Iran

E-mail: aliakbarmasoudi@yahoo.co.in , masoudia@modares.ac.ir

Phone: +98- 2148292353

Fax: +98-2148292200

Education

B.S., Tehran University, Iran (1996).

Major: Animal Production Science

M.Sc., Sistan and Baluchestan University, Iran (2000).

Major: Animal Genetics and Breeding

Ph.D., Okayama University, Japan (2007).

Major: Biomolecular Science,

Publication and Presentations

Refereed papers;

- Farahi, M., **A.A. Masoudi**, and A. Ehsani. **2018**. Does the change in sperm motility during the production period differ between high and low motility groups? *Livestock Science*. Volume 216, Pages 1–5
- Javanrouh-Aliabad, A., R. Vaez Torshizi, **A. A. Masoudi** & A. Ehsani. **2018**. Identification of candidate genes for blood metabolites in Iranian chickens using a genomewide association study. *British Poultry Science*. DOI: 10.1080/00071668.2018.1472743.

- Amin, M., **A. A. Masoudi**, C. Amirinia, and H. Emrani. **2018**. Molecular Study of the Extension Locus in Association with Coat Colour Variation of Iranian Indigenous Sheep Breeds. Russian Journal of Genetics, Vol. 54, No. 4, pp. 464–471.
- Mahdi Ghaderi, Ahmad Banakar, and **Ali Akbar Masoudi**. **2018**. Using dielectric properties and intelligent methods in separating of hatching eggs during incubation. Measurement. Vol.114. Page. 191-194.
- Kamali Sangani A, **Masoudi A.A**, and Vaez Torshizi R. **2017**. Association of mitochondrial function and sperm progressivity in slow- and fast-growing roosters. Poultry Science. 1;96(1): 211-219.
- **Ali akbar Masoudi**, Hossein Emrani, Saeid Esmaeilkhani, and Sima Savar Sofla. **2017**. Myostatin (gdf-8) polymorphism and its association with growth traits in Baluchi sheep. Online Journal of Veterinary Research. Vol. 21(8):505-510.
- Raeesi V, Ehsani A, Torshizi RV, Sargolzaei M, **Masoudi A.A**, Dideban R. **2017**. Genome-wide association study of cell-mediated immune response in chicken. Journal of Animal Breeding and Genetics. 134(5): 405-411.
- Hakimeh Emamgholi Begli, Rasoul Vaez Torshizi, **Ali Akbar Masoudi**, Alireza Ehsani and Just Jensen. **2017**. Relationship between residual feed intake and carcass composition meat quality and size of small intestine in a population of F2 chickens. Livestock Science. Vol.205. Pages 10-15.
- Hossein Emrani, Rasoul Vaez Torshizi, **Ali Akbar Masoudi** and Alireza Ehsani. **2017**. Identification of new loci for body weight traits in F2 chicken population using genome-wide association study. Livestock Science. Volume 206, Pages 125–131.
- Hossein Emrani, Rasoul Vaez Torshizi, **Ali Akbar Masoudi** and Alireza Ehsani. **2017**. Genome wide association study for Ascites Syndrome in F2 crosses of Azerbaijan native fowls and Arian broiler line. Journal of Animal Production (Persian). Vol. 19 no.1. 33-45.
- Ali javanrouh Rasoul Vaez Torshizi, **Ali Akbar Masoudi** and Alireza Ehsani. **2017**. Genome wide association study (GWAS) for body composition traits in a F2 population crosses of Arian broiler line and Azerbaijan native chicken. Animal Science Journal (Persian) Volume 30, Issue 116, Page 231-246.
- Emamgholi Begli, H., R. Vaez Torshizi, **A. A. Masoudi**, A. Ehsani and J. Jensen. **2017**. Genomic dissection and prediction of feed intake and residual feed intake traits using a longitudinal model in F2 chickens. Animal. Dec 22:1-7.

- Salim Morammazi, **Ali Akbar Masoudi**, Rasoul Vaez Torshizi and Abbas Pakdel. **2016**. Differential Expression of Alpha S1 Casein and Beta-Lactoglobulin Genes at Different Physiological Times in Mammary Gland of Adani Goats. Iranian Journal of Biotechnology. Dec; 14(4): 278–285.
- Morammazi S, **Masoudi A.A**, Vaez Torshizi R and Pakdel A. **2016**. Changes in the Expression of the Prolactin Receptor (PRLR) Gene in Different Physiological Stages in the Mammary Gland of the Iranian Adani Goat. Reproduction in Domestic Animals. Aug; 51(4): 585-90.
- Farahvash, T., R. Vaez Torshizi, **A.A. Masoudi** H.R. Rezaei and M. Tavallaei. **2016**. AMELX and AMELY Structure and Application for Sex Determination of Iranian Maral deer (*Cervus elaphus maral*). Iranian Journal of Applied Animal Science. Volume 6, Issue 4, Page 963-96.
- M. Montazery, **A. A. Masoudi**, and R. Vaez Torshizi. **2016**. Microsatellite loci analysis for the genetic variability and paternal lineages in Iranian native dog. Journal of Live Stock Science and Technology. Volume 4, Issue 1, Page 61-70.
- Farhadi Sana, **Masoudi Ali Akbar**, Vaez Torshizi Rasoul. **2015**. Structural analysis of the TLR4 Gene in Iranian commercial Arian line and west Azerbaijan native chicks. Journal of Animal Production (Journal of Agriculture), Volume 17 , Number 1Page(s) 9 to 18.
- A. Maghsoudi, **A. A. Masoudi**, R. Vaez Torshizi, M. A. Karimi Torshizi and Z. Mohammad Hassan. **2015**. Genetic polymorphism and expression analysis of *cMBL* gene in Iranian native and commercial chicken. Journal of Livestock Science and Technologies, 3 (2): 50-55
- Reihane Seifi Moroodi, **Ali Akbar Masoudi**, Rasoul Vaez Torshizi, Mohammad Zandi **2014**. Identification of learning and memory genes in Canine; Gene and protein structure analysis, Promoter investigation and determining the selective pressure. Mol Biol Rep.
- Kamali Sangani, A., **Masoudi, A.A.**, Hosseini, S.A. **2014**. The effects of herbal plants on Mucin 2 gene expression and performance in ascetic broilers. Iranian Journal of Veterinary Medicine
- Hakimeh EmamgholiBegli, RasoulVaezTorshizi, **Ali Akbar Masoudi**, AlirezaEhsani Just Jensen.. **2016**. Longitudinal analysis of body weight, feed intake and residual feed intake inF2 chickens. Livestock Science. 184(2016)28–34.
- F. Hashemzadeh, S. Rahimi, M. A. Karimi Torshizi, and **A. A. Masoudi**. **2015**. Usage of Green Fluorescent Protein for Tracing Probiotic Bacteria in Alimentary Tract and Efficacy Evaluation of Different Probiotic Administration Methods in Broilers. Journal of Agricultural Science and Technology.345-356.

- Fahimeh Hashemzadeh, Shaban Rahimi, Mohammad Amir Karimi Torshizi, **Ali Akbar Masoudi**. **2013**. Effects of Probiotics and Antibiotic Supplementation on Serum Biochemistry and Intestinal Microflora in Broiler Chicks. Intl J Agri Crop Sci. Vol., **5 (20)**, **2394-2398**.
- Darzi Niarami, M., **Masoudi A.A** and Vaez Torshizi R. **2014**. Association of single nucleotide polymorphism of GHSR and TGFB2 genes with growth and body composition traits in sire and dam lines of a broiler chicken. Animal Biotechnology.
- **Masoudi A.A**. **2013**. Genetic characterization, polymorphism and evolution analysis in part of the *EDNRB* gene in cattle and goat. Journal of Agricultural Science and Technology.
- M. Moridi, **A. A. Masoudi**, R. Vaez Torshizi and E. W. Hill. **2012**. Mitochondrial DNA D-loop sequence variation in maternal lineages of Iranian native horses. Animal Genetics. **44**, **20-213**.
- Misagh Moridi, **Ali Akbar Masoudi** and Rasoul Vaez Torshizi. **2012**. Study of the Genetic Structure of Iranian Native Horses Using Mitochondrial DNA Sequence. Iranian Journal of Animal Science. **43: (2) 173-183**. (In Persian)
- Maryam Amin Esghabadi, **Ali Akbar Masoudi**, Siros Amirinia and Hssein Emrani. **2011**. Molecular genetic study on mutations of the MC1R gene in two breeds of Iranian native sheep. Biosafety Bulletin. **97-102**. (In Persian).
- Misagh Moridi, Javad Ahmadpanah, **Ali Akbar Masoudi**, Rasoul Vaez Torshizi and Hamidreza Seyed abadi. **2011**. Molecular, Evolution and Stratification Study of the Heat Shock Protein 70 (Hsp70) Genes Family in Cattle. Iranian Journal of Animal Science. **42: (2) 179-187**. (In Persian)
- **Ali Akbar Masoudi**, Osamu Yamato, Kazuhiro Yoneda, Takehito Tsuji, Osamu Mikami, and Tetsuo Kunieda. **2009**. Evaluation of *NEUI* and *PPGB* as candidate genes for a lysosomal storage disease in Japanese black cattle. Animal Science Journal. **80: 611-615**.
- **A. A. Masoudi**, K. Uchida, K. Yokouchi, K. Ohwada, A. R. Abbasi, T. Tsuji, T. Watanabe, T. Hirano, Y. Sugimoto and T. Kunieda. **2008**. Linkage mapping of the locus responsible for forelimb-girdle muscular anomaly of Japanese black cattle on bovine chromosome 26. Animal Genetics **39: 46-50**.
- Kouyou Akiyama, Shiho Akimaru, Yuka Asano, Maryam Khalaji, Chiyo Kiyosu, **Ali Akbar Masoudi**, Sakino Takahashi, Kentaro Katayama, Takehito Tsuji, Junko Noguchi and Tetsuo Kunieda. **2008**. An ENU induced new mutant mouse with defect of spermatogenesis caused by a nonsense mutation of Syntaxin2/Epimorphin (*Stx2/Epim*) gene. Journal of Reproduction and Development **54 (2) 122-128**.

- **Ali Akbar Masoudi**, Kazuyuki Uchida, Kou Yokouchi, Keiko Miyadera, Hiroyuki Ogawa, Yoshikazu Sugimoto and Tetsuo Kunieda. **2007**. Marker-assisted selection for forelimb-girdle muscular anomaly of Japanese black cattle. *Animal Science Journal* **78**: 672-675.
- Zakizadeh, S, Rahimi G, Mirai-Ashtiani S R, Nejati-Javaremi A, Moradi-Shahrbabak M, Reinecke P, Reissmann M, **Masoudi A A**, Amirinia S and Mirhadi SA. **2006**. Analysis of bovine growth hormone gene polymorphisms in three Iranian native breeds and Holstein cattle by PCR-RFLP. *Biotechnology* **5(3):385-390**.
- Sanati, H., M. Nouraei, M. Daliri, S.Amirinia, A. Mirhadi, M. A., Akhavanzadegan, N. Asadi, **A. A Masoudi**, and H, Emrani. **2004**. National Strategy of Biotechnology for Domestic Animals and Fisheries. National Research Center of Genetic Engineering and Biotechnology Press. (Book chapter, In Persian).

Oral or poster presentations;

- Kouyou Akiyama, Takashi Hirano, **Ali Akbar Masoudi** , Kazuyuki Uchida, Takehito Tsuji, Taeko Kumagai, Kouji Ohwada, Yoshikazu Sugimoto, Tetsuo Kunieda. **2013**. A Mutation of the GFRA1 Gene is Responsible for Forelimb-Girdle Muscular Anomaly (FMA) of Japanese Black Cattle. Plant and Animal Genome XXI Conference. , USA.
- Mahbobe Alizade, **Ali Akbar Masoudi** and Rasoul Vaez Torshizi. **2012**. Study of the mtDNA HVR1 region in Iranian dog population. 12th Iranian Genetics Congress.
- Mahdie Montazeri, **Ali Akbar Masoudi** and Rasol Vaez Torshizi. **2012**. Analysis of genetic variation in Iranian dog populations using microsatellite markers. 12th Iranian Genetics Congress.
- Kamali Sangani, A., **Masoudi, A. A.**, Hosseini, A., and Mohammad Amini M. **2012**. MOCK1 gene expression in heart, lung and intestine of ascitic broilers. 12th Iranian Genetics Congress.
- Mehrazar, M.M., **Masoudi, A.A.**, Shirazi, A. **2012**. Differential gene expression of TP53 in cumulus and oocyte complex (COC) of multiparous Shal sheep. 12th Iranian Genetics Congress.
- Maryam Amin Esghabadi, **Ali Akbar Masoudi**, Siros Amirinia and Hssein Emrani. **2011**. Molecular genetic study on mutations of the MC1R gene in two breeds of Iranian native sheep. The 3rd Biosafety and Genetic Engineering Congress. 13- 15 June. Islamic azad University, Tehran, Iran, (Poster).
- R. Khalkhali Ivrih, R. Vaez Torshizi, **A. A. Masoudi**. **2011**. Study of Pedigree Structure in Some Iranian Holstein Catfle Herds. The 3rd National Holstein Congress of I.R. Iran. 20-21 September. Animal Science Reaserch Institute, Karaj, Iran. (Oral).

- Darzi Niarami, M., **Masoudi, A. A.** and Vaez Torshizi R. **2011**. Structural analysis of the UCP and ND5 genes in Arian broiler line. The 7th National Biotechnology Congress of I.R. Iran 12-14 September. Niroo Research Institute, Tehran, Iran. (Oral)
- Misagh Moridi, **Ali Akbar Masoudi** and Rasoul Vaez Torshizi. **2011**. Analysis of mtDNA hypervariable region in Iranian native horses. The 7th National Biotechnology Congress of I.R. Iran 12-14 September. Niroo Research Institute, Tehran, Iran. (Oral)
- Darzi Niarami, M., **Masoudi A.A** and Vaez Torshizi R. **2011**. Association of the polymorphisms at ATGL and GHSR loci with the productive traits in Arian broiler line. The 7th National Biotechnology Congress of I.R. Iran 12-14 September. Niroo Research Institute, Tehran, Iran. (Poster)
- **Ali Akbar Masoudi**. **2011**. Molecular cloning and characterization of the *EDNRB* gene in goat (*Capra hircus*). The 7th National Biotechnology Congress of I.R. Iran 12-14 September. Niroo Research Institute, Tehran, Iran. (Poster)
- Kamali Sangani, A., **Masoudi, A. A.** and Hosseini, A. **2011**. The effect of turmeric, thyme and cinnamon on MUC2 gene expression in broiler chickens. The 7th National Biotechnology Congress of I.R. Iran 12-14 September. Niroo Research Institute, Tehran, Iran. (Oral)
- Ahmad Panah J, Moridi M, **Masoudi A. A** and Vaez Torshizi R. Positive Selection in Molecular Evolution of the *HSP70* Gene Family. **2010**. The 3rd Iranian Conference on Bioinformatics. 5-6 Jan. Tehran, Iran (Poster).
- Ahmad Panah J, Moridi M, **Masoudi A. A** . Phylogeny and molecular evolution of the HSP70 gene family in Cattle. **2010**. The 11th Iranian Congress on Genetics. 22-24 May. Tehran. Iran (oral).
- **Ali Akbar Masoudi**, Kou Yokouchi, Kazuyuki Uchida, Koji Ohwada, Abdol Rahim Abbasi, Takehito Tsuji, Yashikazu Sugimoto and Tetsuo Kunieda. Linkage mapping of the locus responsible for Forelimb-girdle Muscular Anomaly of Japanese black cattle on BTA 26. **2007**. Japanese Society of Animal Science, 107th congress on Japanese Animal Science, Azabu University, 03, 27~ 29 (Oral).
- Emrani, H., F. Radjaee Arbab, C. Amirinia, M.H. Banabazi, A. Nejati Javaremi, A. Javanrouh, H.R. Seyedabadi, A. Abbasi and **A. A. Masoudi** . Bottleneck effect in four Japanese quail based on assign test using ten microsatellite loci. **2006**. 57th EAAP annual meeting, Antalya, Turkey, 17-20 september (Poster).
- **Masoudi, A. A.** H. Emrani ., A. R Abbasi., A. Nejati-Javaremi .,T. Kunieda., K. Farhang., S Esmailkhanian and F. Ziaei. **2005**. Association between the Myostatin Gene polymorphisms and

growth traits in Baluchi sheep. The 4th National Biotechnology congress of Islamic Republic of Iran. (Oral).

- Radjaee Arbabe, M.A., H. Emrani, S.Amirinia, R. Vaez Torshizi, A.Nejati Javaremi, S. Esmaeilkhanian, A.Mirhadi and **A.A Masoudi**, 2005. Determination of evolutionary relationship among four Japanese quail strains by microsatellite markers. The 4th National Biotechnology congress of Islamic Republic of Iran. (Oral).

- **Masoudi A. A.**, Emrani, H and Torkamanzehi A. Study of Growth Hormone gene polymorphisms in Iranian Bos Indicus cattle by PCR-RFLP. 2002. The first seminar on Genetics and Breeding applied to livestock, poultry and aquatics, KARAJ, IRAN.(Poster).

- **Ali Akbar Masoudi**, Abdol Rahim Abbasi, Khadijeh Farhang. A simple procedure for extracting DNA from dairy animals and genotyping by using microsatellite and RAPD markers. 2003. The 3th National Biotechnology congress of Islamic Republic of Iran. Mashhad, I.R.IRAN (oral).

New Data deposited in GenBank database

- Accession numbers of the newly developed SSRs; AB359017, AB359018, AB359019, AB359020, AB359021, AB359022, AB359023, AB359024, AB359025, AB359026, AB374990, AB374991, AB374992, AB374993, AB374994, AB374995, AB374996, AB374997 and AB374998.

- Accession number of the firstly sequenced genes; AB327260 and AB327106.

- Accession numbers of the D-Loop region in Iranian horses; JN210968 to JN211011.

Activities in Academic Science

- Instructor of Animal Breeding using Molecular Methods. organized by NRCGEB, Tehran, Iran 3-7 Januray 2003. (Instructor)

- Lecturer of the following courses at Tarbiat Modares University (Iran).

- Animal Breeding, Molecular Genetics and Genetic Engineering, Application of Biotechnology in Husbandry, Application of new Technique in Animal Nutrition, Research methods.

Skills

- Protein extraction, DNA extraction, RNA extraction and cDNA synthesis.

- DNA cloning using YAC, BAC, Cosmid and Plasmid vectors,

- Cell culture and Expression analysis.
- AFLP, SSCP, RAPD, RFLP and SSR markers.
- Yeast two hybrid systems.
- Southern, Northern and Western blot analysis.
- Pulse Field Gel Electrophoresis.
- Data genotyping and sequencing using ABI 310 and Hitachi DNA analyzer .
- RNA seq and NGS data analysis.
- Bioinformatics and biology data analysis.

Employment

- Researcher, Animal Science Research Institute (ASRI), Iran (2001- 2004).
- Teaching Activity of molecular genetics, Okayama University, Japan (2005-2007).
- Research Associate, Okayama University, Japan (November 2007 to April 2008).
- Assistant Professor of molecular genetics, Tarbiat Modares University, Iran (2008 to present).

Research Interests

- Gene mapping, Positional cloning and functional analysis of Major genes segregated in domestic animals.
- Study and identification of coding genes or non-coding elements responsible for hereditary disease in animals.

Referees

- Professor Tetsue Kunieda, Graduate School of Natural Science and Technology, Okayama University, Japan. Phone; +81-86-251-8314. E-mail: Tkunieda@cc.okayama-u.ac.jp
- Dr. Mohammad Mahdi Shariati, Aarhus University, Denmark. Phone; +45-8999-1900. E-mail; Mohammad.Shariati@agrsci.dk
- Dr. Ardeshir Nejati, Department of Agriculture, Tehran University, Iran. Phone: +98-261-4574508. E-mail; ardeshir@neda.net
- Dr. Rasoul Vaez Torshizi, Department of Agriculture, Tarbiat Modares University, Iran. Phone: +98-21-48292374. E-mail; rasoult@modares.ac.ir