



Agricultural Research, Education & Extension Organization (AREEO)
Yazd Agricultural and Natural Resources Research and Education Center
Animal Science Research Department,

CURRICULUM VITAE

MORTEZA BITARAF SANI

Assistant Professor

Ph.D in Animal Genetics & Breeding

Date of birth: 23th September 1979

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ACADEMIC CAREER

Ph.D in Animal Breeding (Quantitative Genetics), 2011-2014, Department of Animal Science, Faculty of Agriculture, Ferdowsi University of Mashhad (FUM). Mashhad, IRAN.

Ph.D Thesis: Genome wide association studies in populations with high and low LD (Supervisor: Mohhamadreza Nassiri, Ali Asghar Aslaminejad, Advisors: Mohamad Mahdi Shariati.

M.Sc. in Animal Genetics & Breeding. 2002- 2004. Department of Animal Science, Faculty of Agriculture, University of Zanjan. Zanjan, IRAN.

M.Sc Thesis: effect of open days on performance and production of Holstein cattle. (Supervisors: Dr. M. Eskandari Nasab & Dr.H. Amanlo).

B.Sc. in Animal Science. 1999-2001. Department of Animal Science, Faculty of Agriculture, University of Sistan and Baluchestan. Zabol, IRAN

PUBLICATION & PRESENTATIONS

Bitaraf Sani, M., Zare Harofte, J., Banabazi, M. H., Esmailkhanian, S., Shafei Naderi, A., Salim, N. ... & Faghihi, M. A. (2021). Genomic prediction for growth using a low-density SNP panel in dromedary camels. *Scientific reports*, 11(1), 1-14.

Bitaraf Sani, M., Harofte, J. Z., Bitaraf, A., Esmailkhanian, S., Banabazi, M. H., Salim, N., ... & Taghipour Sheshdeh, A. (2020). Genome-wide diversity, population structure and demographic history of dromedaries in the central desert of Iran. *Genes*, 11(6), 599.

Bitaraf Sani, M., Hosseini, S. A., Asadzadeh, N., Ghavipanje, N., Afshin, M., Jasouri, M. ... & Burger, P. A. (2022). A New Approach in the Evaluation of Dairy Camels: Using Test Day Milk and Morphometric Records. *Dairy*, 3(1), 78-86.

Bitaraf Sani, M., Roudbari, Z., Karimi, O., Banabazi, M. H., Esmailkhanian, S., Asadzadeh, N., ... & Burger, P. A. (2022). Gene-Set Enrichment Analysis for Identifying Genes and Biological Activities Associated with Growth Traits in Dromedaries. *Animals*, 12(2), 184.

Bitaraf Sani, M.;zare, j.;Banabazi, M.;Asim, Faraz;esmaeilkhanian, s.;Shafi naderi, A.;Salim, Nader;Teimori, Abbas;Bitaraf, A.;Zadehrahmani,Mohammad;Anna Burger, Anna;asadzadeh, n.;Silawi, Mohammad;Taghipoor Sheshdeh,Afsaneh;MohammadNazari, Behrooz;Faghihi, Mohammad Ali;Roudbari, Zahra 2022. Identification of Candidate Genes for Pigmentation in Camels Using Genotyping-by-Sequencing. *Animals* 12(1095) 1-9

Asadzadeh, N., **Bitaraf Sani, M.,** Shams Davodly, E., Zare Harofte, J., Khojastehkey, M., Abbaasi, S., & Shafie Naderi, A. (2021). Body Weight Prediction of Dromedary Camels Using the Machine Learning Models. *Iranian Journal of Applied Animal Science*, 11(3), 605-614.

Jelokhani-Niaraki, S., Tahmoorespur, M., & **Bitaraf Sani, M.** (2015). Isolation and molecular characterization of partial FSH and LH receptor genes in Arabian camels (*Camelus dromedarius*). *Molecular Biology Research Communications*, 4(2), 105.

Bitaraf Sani, M., Khojastehkey, M., Zare Harofte, J., & Shafei Naderi, A. (2022). Comparison of linear and non-linear models to predict the growth curve of dromedary camels. *Animal Production Research*, 10(4), 73-81.

Asadzadeh, N., **Bitaraf Sani, M.,** Zare Harofte, J., Hossein Banabazi, M., Esmailkhanian, S., Shams Davodly, E., Bitaraf, A., Shafei Naderi, A., Mofidi, M., Kordi Yazdi, M., Ablodi, A., Karimi, O., Saeedabadi Sadeghabad, M., Tahernia, A., Salim, N., Teimoori, A., Khojastehkey, M., Jelokhani, S., Asadi, N. (2020). Camel Husbandry using SARBANYAR app. *Agricultural Information Sciences and Technology*, 3(5), 25-29. doi: 10.22092/aistj.2021.352239.1044

Bitaraf Sani, M.;zare, j.;Bitaraf, A.;esmaeilkhanian, s.;Banabazi, M.;Salim, Nader;Teimori, Abbas;Shafi naderi, A. 1399. Genome diversity and linkage disequilibrium in dromedary camels in Iran. *4th Annual Meeting in Conservation Genetics 2020*. 77-77

Asim, Faraz;Faye, Bernard ;Tirink, Cem ;Mustafa, Ayman Balla ;Alkharusi, Amal ;**Bitaraf Sani, M.;**Tauqir, Nasir Ali ;Akbar, Muhammad Arslan ;Saleem, Muhammad Usman ; Bilal, Rana Muhammad ;Waheed, Abdul ;Nabeel, Muhammad Shahid 2022. Forced Mating an Efficient Tool in Camel Production to Reduce the Age at Puberty and Calving Interval in Dromedary She-Camel (*Camelus dromedarius*). *Punjab University Journal of Zoology* 37(1) 35-40.



Akhavan Sales, Z., Tahoori, M. T., Sheikha, M. H., Seifati, S. M., & **Bitaraf Sani, M.** (2020). Identification of a FAS/FASL haplotype associated with endometriosis in Iranian patients. *Gynecological Endocrinology*, 36(3), 261-264.

Nadafi Sichani, V., Emami, S. A., **Bitaraf Sani, M.**, Nassiri, M., & Gopalan, V. (2020). Identification of Breast Cancer Associated Putative Functional Single Nucleotide Polymorphisms in the Iranian Population through in Silico Analyses. *Journal of Cell and Molecular Research*, 12(1), 22-32.

Ardakani, Z. S., Heidari, M. M., Khatami, M., & **Bitaraf Sani, M.** (2020). Association of Pathogenic Missense and Nonsense Mutations in Mitochondrial COII Gene with Familial Adenomatous Polyposis (FAP). *International Journal of Molecular and Cellular Medicine*, 9(4), 255.

Seyedmir, F., Mirzaie, K., & **Bitaraf Sani, M.** (2017). The Studies of Decision Tree in Estimation of Breast Cancer Risk by Using Polymorphism Nucleotide. *SSU_Journals*, 25(4), 300-310.

Moezaddini, Bibi Zahra; **Bitaraf Sani, M.**; Miresmaeili, Seyed Mohsen; Iranmanesh, Mohammad 1397. Feasibility of Identify SNPs Associated with CAD Using Simulation of Genomic Studies. 8th Iranian Conference of bioinformatics. 69-69

Bitaraf Sani, M.; Nassiry, Mohammad Reza ; Aslaminejad, Ali Asghar ; Shariati, Mohammad Mahdi 1397. Effect of LD of genomic candidate regions on genomic association studies. 8th Iranian Conference of Bioinformatics. 72-72.

Hosseini, N., Tahoori, M. T., Mohammadzadeh, A., Zarei Jaliani, H., **Bitaraf Sani, M.**, & Soleimani Salehabadi, H. (2021). IRAK1 gene polymorphism in rheumatoid arthritis. *Immunological Investigations*, 50(2-3), 304-321.

Khatami, M., Heidari, M. M., Hadadzadeh, M., Scheiber-Mojdehkar, B., **Bitaraf Sani, M.**, & Houshmand, M. (2017). Simultaneous genotyping of the rs4762 and rs699 polymorphisms in angiotensinogen gene and correlation with Iranian CAD patients with novel Hexa-primer ARMS-PCR. *Iranian journal of public health*, 46(6), 811.

Karimi, O.; **Bitaraf Sani, M.**; Bakhshesh, M.; zare, j.; Poormirzaee, Hamid 2022. Seroprevalence of bovine viral diarrhea virus antibodies and risk factors in dairy cattle from the central desert of Iran. *Tropical Animal Health and Production* 54(176).

EXECUTIVE EXPERIENCES

Head of Animal Science Research Department, Since July. 2018
Yazd Agricultural and Natural Resources Research and Education Center, Yazd, IRAN.

Director of Camel Ecological Development Committee in Yazd, Since May. 2022
Organization of Agriculture - Jihad - Yazd, Ministry of Agriculture-Jahad, Yazd, IRAN.

Member of Scientific Board (Animal Production Management Department), Sep. 2018
Animal Science Research Institute of Iran (ASRI), Karaj, IRAN.

Executive of the International Event on Camel Innovations, Technological Ideas, and Entrepreneurship, November 10, 2021. Yazd, IRAN.

Executive of Camel Day Event, National research and development station of dromedary camel (Bafgh), November 13, 2019.

Member of National Committee for Identification and Registration of Horses, Since April. 2019.
Animal Science Research Institute of Iran (ASRI), Karaj, IRAN.



EXECUTIVE OF RESEARCH PROJECT (2018-2022)

Genomic Selection of Dromedary Camel in Yazd Province

Design and production of camel support system (SAREBANYAR Application)

Development of productive system for camel production in Yazd province. First phase: Determining the Challenges of Camel Breeding in Yazd Province.

Gene-set enrichment analysis to identify genes and biological pathways associated with growth traits in Dromedaries of Yazd

TEACHING and WORKSHOP INSTRUCTION

Population Genetics (2 units), M.Sc course of Genetics. Department of Biology, Faculty of Sciences, Yazd university. Yazd, IRAN. 2021 (Spring semester).

Population Genetics (2 units), M.Sc course of Genetics. Department of Biology, Science and Arts University. Yazd, IRAN. Since 2017.

Population genetics (2 units), M.Sc course of Genetics. Department of Biology, Islamic Azad University (Ashkezar Branch) Yazd, IRAN. Since 2016.

The (Statistical) Design of Experiments (2 units), B.Sc of Biology. Department of Biology, Science and Arts University. Yazd, IRAN. Since 2017.

Advanced Statistics (2 units), M.Sc course of Genetics. Department of Biology, Science and Arts University. Yazd, IRAN. Since 2017.

Workshop on "Simulation of Genome Wide Association Studies using HapMap data". Ferdowsi university of Mashhad (FUM), Mashhad, IRAN June 19, 2014.

Workshop on "Human genome wide association studies" Ferdowsi university of Mashhad (FUM), Mashhad, IRAN June 19, 2013.

Workshop on "R language in GWAS" Yazd university, Yazd , IRAN March 20, 2019.

Workshop on " GWAS" Meybod Genetic Research Center, Yazd , IRAN December 20, 2013.

Workshop on "Simulation of Genome Wide Association Studies using HapMap data". Quchan University of Technology, Ghochan, IRAN May 19, 2014.

Keynote Speaker in "3th International Camel Congress" Mashhad. IRAN May 10, 2022

HONORS & AWARDS

The Best Researcher of YAZD. 2014. *Yazd Province, Yazd, IRAN.*

The Best Head of Animal Science Research Department. 2020 -2021 *Animal Science Research Institute of IRAN (ASRI), Karaj, IRAN.*



Development of SAREBANYAR App (camel owner assistance system). 2020. *Animal Science Research Institute of IRAN (ASRI), Karaj, IRAN.*

Design and Produce of SNP Panel For Genomic Selection Of Dromedaries. 2021. *Animal Science Research Institute of IRAN (ASRI), Karaj, IRAN.*

Corporation in the first Set Up (Genotyping-By sequencing technique) in IRAN. 2018. *Persian BayanGene Research and Training Center, Shiraz, Iran*

RESAERCH SKILLS

R programing language

TASSEL Software

Linux system

GAPIT package

PLINK

Genotyping-By sequencing

RESAERCH INTERESTS

Camel breeding, Animal Genomics, Population Genomics, Genomic selection, GWAS