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## MOJTABA NAJAFI

**OBJECTIVE** Mojtaba Najafi (born March 21, 1986) is an Iranian molecular biologist, geneticist. Mojtaba earned degrees at the SANRU (MS and Ph.D., 2008 to 2016). Following a sabbatical Position year at the SLU University, Uppsala, Sweden with Erik Bongcam-Rudlof and Patrice Humblot, later Mojtaba is working as a researcher at the Mazandaran University of medical sciences molecular genetic Laboratory in Iran. From 2017 he also served as a member of Altinzist Company to prepare some kits for biology research. At Mazandaran University of medical sciences, he shifted his research emphasis to the study of cancer. Nowadays, he worked as an Assistant Professor in Animal Breeding and Genetics in Gorgan University of Agricultural Sciences and Natural Resources, Golestan, Gorgan, Iran.

### SKILLS & ABILITIES

- 1- DNA and RNA Extraction from different species: Plant, Animal, Fish
- 2- Gene Cloning
- 3- Gene Expression Assay (Real Time PCR)
- 4- PCR and RT-PCR and PCR-based methods
- 5- Agarose and Polyacrylamide Gel Electrophoresis
- 6- Melting Curve Analysis
- 7- Encapsulation of Bacteria
- 8- Cell Culture
- 9- MTT assay
- 10- QF-PCR (Fragment analysis)
- 11- Sanger Sequencing
- 12- NGS (Next Generation Sequencing) platforms
- 13- Non Invasive Prenatal Test (Cell free DNA)

### COMPUTER SOFTWARE EXPERIENCES:

- 14- Familiar with various **Biological Databases** such as NCBI,

ENSEMBL, UCSC Genome browser, and some other databases like DAVID, PANTHER, EBI, Swiss-prot and etc.

- 15- **Primer design:** Oligo7, primer primer, Fast PCR, Primer3.
- 16- **Phylogenic& DNA sequence analysis:** ChromasPro, BioEdit, Mega4, jalview, DNAsis max, CLC genomics and NTSIS, GENAlex, Arlequin, MrBayes, Paup 4.0, Jemboss, Rasmol, UGENE, Plink, GALAXY, Fastx-toolkit, Trimmomatic, Prinseq, Bowtie, BWA, RAMBok and etc.
- 17- **Statistics:** SAS, R, SPSS, REST, Df-Repl, Vb, partially wombat and MATLAB.
- 18- **operating system:** windows, Linux and Mac.
- 19- **NGS platforms analysis** such as RNASeq (Illumina) and NIPT (Ion Torrent) test analysis.
- 20- **Fragment analysis** software such as GeneMarker and GeneMapper
- 21- **Sanger Sequencing Analysis**

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## EXPERIENCE

**Assistant Professor in Molecular Genetics and Bioinformatics at Gorgan University of Agricultural Sciences and Natural Resources**  
Nov 2020 - Present

Research, Projects, Teaching and etc.

**OPERATOR AND HEAD OF SEQUENCING AND NGS SECTION OF FAJR MEDICAL GENETICS LAB**

2018-2020

have done different molecular tests mainly NGS and Sequencing and Fragment analysis.

**A MEMBER OF IRAN'S NATIONAL ELITES' FOUNDATION**

2016-2018

Have done a project related to NAFLD at Baqiyatallah University of Medical Sciences and have submitted one peer-review paper

**A RESEARCHER IN MAZANDARAN UNIVERSITY OF MEDICAL SCIENCES**

2015-2017

Working on two ongoing projects related to cancer.

## EDUCATION

### **SLU- UPPSALA, SWEDEN- SABBATICAL POSITION**

2015-2016- Sabbatical Position in SLU university, Uppsala, Sweden.  
(From OCT 2015 to June 2016)

### **SANRU-SARI, IRAN- PHD.**

2012-2017- PhD student in Animal Breeding and Genetics at Sari Agricultural Sciences and Natural Resources University (SANRU), Mazandaran, Iran. **Thesis:** Differential expressed genes involved in proliferative response of LPS-induced endometrial epithelial cells.

### **SANRU- SARI, IRAN- M.SC.**

2008-2010- M.Sc. in Animal Breeding and Genetics at Sari Agricultural Sciences and Natural Resources University (SANRU), Mazandaran, Iran. **Thesis:** Cloning, Sequencing and Comparative Analysis of Gene Structure in Promoter Site of Alpha-S1Casein Gene in Naeinian Goat and Sheep Breed

### **URMIA UNIVERSITY- URMIA, IRAN- B.S.C**

2004-2008- B.S. in Animal Sciences at Urmia University. Urmia, Azerbaijan, Iran

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## LEADERSHIP

- 1- Operator and Head of Sequencing and NGS Section of Fajr Medical Genetics Lab
- 2- The executive officer in Animal breeding and Genetics section of the First National Congress on Animal and Poultry in North of Iran.
- 3- The executive in charge of MSc science students Informatics section (IT) in SANRU for 3 years.
- 4- Work in Journals section in SANRU.
- 5- Secretary of Animal Science Convocation and redactor of internal journal of animal science convocation.
- 6- Laboratory expert in Molecular genetic lab in animal science department in SANRU.
- 7- The executive officer in Animal breeding and Genetics section of the Third National Congress on Animal and Poultry in North of Iran.

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## PUBLICATION

- 1- Baneh, H, [Najafi. Mojtaba](#), Rahimi. G. 2012. Genetic parameter estimates for early growth traits in Naeinian goat. Journal of

- 2- E. Dirandeh, A. Towhidi, Z. Ansari Pirsaraei, M. Ganjkhanlou1, S. Zeinoaldini1, A. Rezaei Roodbari and [M. Najafi](#). 2012. 216 Effect of different polyunsaturated fatty acid supplementation during the postpartum periods of lactating dairy cows on insulin resistance and somatotropic axis. *Reproduction, Fertility and Development*, 25(1), 256-256.
- 3- R. Ataee, N.N.N. Abadi, S.A. Kenari, M. Shokrzadeh, [M. Najafi](#), S.V. Hoseini, H.H.A. Jan. 2014. P0044 Expression of MT2 Receptor in Patients with Gastric Adenocarcinoma and its Relationship with Clinicopathological Features. *European Journal of Cancer*.
- 4- Nafiseh Nasri Nasrabadi, Ramin Ataee, Saeid Abedian kenari, Mohammad Shokrzadeh, [Mojtaba Najafi](#), Seyed Vahid, Hoseini, Hamed Haghi Amin Jan .2013. Expression of MT2 Receptor in Patients with Gastric Adenocarcinoma and its Relationship with Clinicopathological Features. *Journal of Gastrointestinal Cancer*.
- 5- [Najafi. Mojtaba](#), G. Rahimi, Z. Ansari. 2014. Cloning and comparative analysis of gene structure in promoter site of alpha-s1 casein gene in Naeinian goat and sheep. *Meta Gene* 2, 854–861.
- 6- Mostafa Modarresi, Alireza Eivazi and [Mojtaba Najafi](#). 2013. Evolutionary relationship between Arabidopsis thaliana and Homo Sapiens Cu/Zn superoxide dismutase genes. *Acta Advances in Agricultural Sciences*. Volume 1, Issue 1, 1-7
- 7- Mirmajidi SH, [Najafi M](#), Mirmajidi ST, Nasri Nasrabadi N. 2016. Study of regulatory promoter polymorphism (-248 G>A) of Bax gene in patients with gastric cancer in the northern provinces of Iran. *Gastroenterol Hepatol Bed Bench* 2016;9(1):36-44)
- 8- Vahid Danesh, Numan Ozcan and [Mojtaba Najafi](#). (2015). The evaluation of Isolated KH1-29 properties for producing  $\alpha$ -amylase from a novel native highly thermostable, thermophilic and alkaline Bacillus sp. *Biolife*, 3(2), pp 571-575. doi:10.17812/blj2015.32.33
- 9- Vahid Danesh, Numan Ozcan and [Mojtaba Najafi](#). 2015. The

- effect of New Bacillus Isolate Va1-29 with Producing Carboxymethyl Cellulase (CMCase) Enzymes in Animal Nutrition. JNAS Journal-2015-4-7/824-829.
- 10- [Mojtaba Najafi\\*](#), G, Rahimi., Z, Ansari., M.A. Rouhi. (2016). Genotyping of common SNP and a closely linked microsatellite sequences to Waxy gene in several rice varieties by different DNA based markers. Iranian journal of genetics and plant breeding, Vol. 5, No. 1.
  - 11- A, Emad Abdulgabbar., Zhandi, M., Towhidi, A., Zaghari, M., Ansari, M., [Najafi, M.](#), Deldar, H. (2017). Letrozole, an aromatase inhibitor, reduces post-peak age-related regression of rooster reproductive performance. Animal Reproduction Science <http://dx.doi.org/10.1016/j.anireprosci.2017.05.010>.
  - 12- Rafatmanesh, A., Aftabi, Y., Abediankenari, S., [Najafi, M.](#), & Abedi, S. (2017). Porcupine flesh homogenate induces T-bet and IFN- $\gamma$  expression in mononuclear cells of asthmatic patients: possible molecular mechanism of a zoo-therapeutic treatment. Indian Journal of Traditional Knowledge Vol. 16(3), July 2017, pp. 425-430
  - 13- Maryam Ebrahimi\*, Rozita Fathi, ZARBAKHT Ansari Pirsaraii, Elaheh Talebi Garakani1 and [Mojtaba Najafi](#). 2017. How high-fat diet and high-intensity interval training affect lipid metabolism in the liver and visceral adipose tissue of rats. Comparative Exercise Physiology. <https://doi.org/10.3920/CEP170018>.
  - 14- Maryam Ebrahimi\*, Rozita Fathi, ZARBAKHT Ansari Pirsaraii, Elaheh Talebi Garakani and [Mojtaba Najafi](#). 2018. Expression of the key metabolic regulators in the white adipose tissue of rats; the role of high-fat diet and aerobic training. Comparative Exercise Physiology.
  - 15- Hamed Kazemi, [Mojtaba Najafi\\*](#), Elaheh Ghasemian, Ghodrat Rahimi-Mianji, ZARBAKHT Ansari Pirsaraei. 2018. Polymorphism detection of promoter region of IFN- $\gamma$  and IL-2 genes and its association with productive traits in Mazandaran native breeder fowls. Journal of Genetics.
  - 16- Hamed Kazemi, [Mojtaba Najafi\\*](#), Mohammad Rezaei, Seyed Hasan Hafezian, Ghodrat Rahimi-Mianji. 2018. Genetic analysis of GH, GHR, IGF-I and IGFBPII genes and their

- association with economical traits in native breeder hens. Journal of biological science.
- 17- **M. Najafi\***, M.A. Rouhi, R. Mokhtari and H. Kazemi. 2018. Genetic analysis of a novel polymorphism in coding region of HSP70 gene and its association with some productive and reproductive traits in Mazandaran native Breeder Hens. J of Genet Disord and Genet Med Vol.2 No.1 May 2019.
  - 18- Farshid Sargazi, Mohammad Shokrzadeh, Saeid Abediankenari, Seyed Vahid Hoseini, Nafiseh Nasri Nasrabadi, **Mojtaba Najafi**, Hamed Haghi-Aminjan, Seyedeh Habibeh Mirmajidi, Ramin Ataee. 2018. Expression of MT1 receptor in patients with gastric adenocarcinoma and its relationship with clinicopathological features. Neuroendocrinology Letters Volume 39 No. 2 2018. ISSN: 0172-780X; ISSN-L: 0172-780X; Electronic/Online ISSN: 2354-4716.
  - 19- Mahdi Teimouri & Sakineh Yeganeh & Ghodrat Rahimi Mianji & **Mojtaba Najafi** & Soleiman Mahjoub. The effect of Spirulina platensis meal on antioxidant gene expression, total antioxidant capacity, and lipid peroxidation of rainbow trout (*Oncorhynchus mykiss*), Fish Physiol Biochem, <https://doi.org/10.1007/s10695-019-0608-3>.
  - 20- A. Khoshaeen, M.R. Mahdavi, **M. Najafi**, H. Jalali, M. Mahdavi. An ultra-rare mutation (C.181C>T) in GALNS gene associated with Morquio syndrome: A case report, Gene Reports 17 (2019) 100488.
  - 21- H Jalali, ST Rasouli, **M Najafi**, H Karami, MR Mahdavi, M Mahdavi. A report of Hb Fontainebleau [ $\alpha$ 21 (B2) Ala> Pro] as a result of founder effect phenomenon. (2020). Gene Reports. 100587.
  - 22- H. Jalali, **M. Najafi**, A. Khoshaeen, M.R. Mahdavi, M. Mahdavi. (2020). First report of c.425-1G>A variant in OAT gene causing Gyrate Atrophy of the choroid and retina with hyperornithinemia. European Journal of Ophthalmology. <https://doi.org/10.1177/11206721209217>.
  - 23- A. Khoshaeen, **M. Najafi**, M.R. Mahdavi, H. Jalali, M. Mahdavi. 2020. A novel missense mutation (c.1006C>T) of SPG20 gene associated with Troyer syndrome. Journal of Genetics. <https://doi.org/10.1007/s12041-020-01210-0>.

- 24- A. Khoshaeen, [M. Najafi](#), M.R. Mahdavi, H. Jalali, M. Mahdavi. 2020. Detection of novel Mutation (c.710G>T) in AIPL1 associated with Leber Congenital Amaurosis: A Case Report. *European Journal of Ophthalmology*. Submitted.
- 25- Jafar Amani, Nassim Gorjizadeh, Simin Younesi, [Mojtaba Najafi](#), Arash M.Ashrafi, Saeed Iriani, Negar Gorjizadeh, Khalil Azizian. 2021. Cyclin-dependent kinase inhibitors (CDKIs) and the DNA damage response: The link between signaling pathways and cancer. *DNA Repair*. <https://doi.org/10.1016/j.dnarep.2021.103103>.
- 26- [Mojtaba Najafi](#), Alireza Rafiei, Alireza Ghaemi, Vahid Hosseini. 2021. Association between rs738408, rs738409 and rs139051 polymorphisms in PNPLA3 gene and Non-Alcoholic Fatty Liver Disease. *Gene reports*.
- 27- Bahman Naroui, Saeed Abedian-Kenari, [Mojtaba Najafi](#), Abbas Mohammadpour, Nafise Nasri-Nasrabadi and Ramin Ataee. Identification of Different Allelic Forms of MTNR1A Gene and its Association with Gastric Adenocarcinoma. 2021. *EC PHARMACOLOGY AND TOXICOLOGY*. 9.12.
- 28- Somayyeh Mojtabavi, Amin Saed, Sajad Aboulfazli, Ali Kheirandsih, [Mojtaba Najafi](#), Majid Jafari-Sabet, Ali Ziar, Nima Ebrahimi, Seyedeh Habibeh Mirmajidi, Ramin Ataee.2022. Evaluation of curcumin effect on Il6, Sirt1, TNF $\alpha$  and NFkB expression of liver tissues in diabetic mice with STZ. *Journal of Diabetes & Metabolic Disorders*. <https://doi.org/10.1007/s40200-022-01090-4>.
- 29- Nafiseh Nasri Nasrabadi, Nasser Mohammadpour Dounighi, Minoo Ahmadinejad, Hadi Rabiei, Maryam Tabarzad, [Mojtaba Najafi](#) and Hossein Vatanpour. 2022. Isolation of the Anticoagulant and Procoagulant Fractions of the Venom of Iranian Endemic Echis carinatus. *Iran J Pharm Res*. 2022 December; 21(1): e127240.
- 30- Toghdory, A.; Ghoorchi, T.; Asadi, M.; Bokharaeian, M.; [Najafi, M.](#); Ghassemi Nejad, J. Effects of Environmental Temperature and Humidity on Milk Composition, Microbial Load, and Somatic Cells in Milk of Holstein Dairy Cows in the Northeast Regions of Iran. *Animals* 2022, 12, 2484. <https://doi.org/10.3390/ani12182484>.

- 31- Sharifi, E., Yazdani, Z., **Najafi, M.**, Hosseini-khah, Z., Jafarpour, A., & Rafiei, A. (2022). The combined effect of fish oil containing Omega-3 fatty acids and *Lactobacillus plantarum* on colorectal cancer. *Food Science & Nutrition*, 00, 1–8. <https://doi.org/10.1002/fsn3.3037>.
- 32- **Mojtaba Najafi**, Mohammad Reza Mahdavi. 2022. Association investigations between ACE1 and ACE2 polymorphisms and severity of COVID-19 disease. *Molecular Genetics and Genomics*. <https://doi.org/10.1007/s00438-022-01953-8>.

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(IN PERSIAN)

- 33- **Najafi. Mojtaba**, G. Rahimi, Z. Ansari, H. Baneh, Z. Yosefi. 2011. Effects of environmental factors on phenotypic growth traits in Naeini sheep. *Research on Animal Production*. Sari University.
- 34- **Najafi. Mojtaba**, G. Rahimi, M. Babaie, Z. Ansari. 2011. Comparison of polymorphism of STAT5A gene in Simmental and Holstein cows. *Journal of Biotechnology*.
- 35- FereshtehJeivad, S, AbedianKenari, M. Shokrzade, M. Ghasemi, T. Taghvaei, Z. Ansari, **Mojtaba Najafi**, H. Hassannia, M. SaiyariMazandarani, ElhamBiranvand. 2011. Study of epidermal growth factor receptor (EGFR) tyrosine kinase domain gene polymorphism in gastric cancer in north of Iran. *Tehran Univ Med J* 2012, 69 (10): 619-623.
- 36- **Najafi. Mojtaba**. G. Rahimi, Z. Ansari, F. Jeivad .2013. Effect of Allelic Polymorphism in Exon 3 of Leptin Gene on Production Traits in Naeinian Sheep Breed. *Iranian Journal of animal science*.
- 37- Mehraban, H, **Najafi, Mojtaba**, Abbasi. B, Esmaili, M. 2013. Estimation of genotypic and phenotypic parameters of open days and 305-Day yield Holstein dairy cattle in Iran by using bivariate repeatability model. *Iranian Journal of animal science*. (DOI): 10.22059/ijas.2014.51746
- 38- Atieh, Rafatmanesh, Siavash Abedi, Javad, Ghaffari, **Mojtaba Najafi**, Saeid Abedian kenari. 2014. Evaluation of T-bet and GATA-3 Gene Expression in Allergic Asthma Patients. *J Mazandaran Univ Med Sci*; 24(117): 29-38 (Persian)
- 39- Saeid Abedian kenari, Atieh, Rafatmanesh, Yunes, Aftabi, **Mojtaba Najafi**, 2015. Evaluation of IL-4 and IFN- $\gamma$  Gene



- Expression in Allergic Asthma Patients. Iran South Med J. 2016; 19 (3):342-350. <http://ismj.bpums.ac.ir/article-1-798-fa.html>.
- 40- Arash Jouladeh Roudbar, Hossein Rahmani, Saber Vatandoust, [Mojtaba Najafi](#), Ghodart Rahimi. 2015. A review of morphological Character in four described species from Alburnoids. Journal of Aquatic Ecology. J. Aqu. Eco. 2015, 5(2): 1-17.
- 41- [Mojtaba Najafi](#)., S.H, Hafezian., M.A, Rouhi., M, Godarzi. 2016. Identification of Different Allelic Variants of PrP Gene Effective on Scrapie in Naeanian Goats Breed. Iranian Journal of Animal Science Research 2016 Vol.8 No.3 pp.502-510 ref.33.
- 42- [Mojtaba najafi](#), Gh, Rahimi., Z, Ansari., M.A, Rouhi. 2016. Identification of different allelic forms of PrP gene in Naeanian sheep by using melting curve analysis technique. Journal of Modern Genetic.
- 43- Mohsen Gholiadeh and [Mojtaba Najafi](#). 2016. Association of genetic variation in exon 1 and 3 of FSHB gene with litter size in Baluchi sheep. Journal of Animal production researches. Sari University.
- 44- [Mojtaba Najafi](#), Rahimi Mianji G, Guo Y.Z, Jhamat N, Andersson G, Humblot P and Bongcam Rudloff E .2016. Differential gene expression analysis in bovine endometrial epithelial cells following by E. coli LPS challenge. Journal of Animal production researches. Sari University.
- 45- Shokrzadeh M, J Charkhtab Moghaddam, N Nasri Nasrabadi and [Mojtaba Najafi](#). 2018. Effects of Silencing of Humanin on Cell Fate and Tumor Cell Responses to Etoposide in AGS Cell Line. J Mazandaran Univ Med Sci 2018; 27 (156): 1- 19 (Persian).
- 46- Amin Saed, Somayyeh Mojtavavi, [Mojtaba Najafi](#), Ali Ziar, Hamed Haghi and Ramin Atae. 2018. Evaluation of Anti-diabetic and Anti-neuropathy Properties of Resveratrol and its Effect on Sirt-1 Expression in Mice. J Mazandaran Univ Med Sci 2018; 27 (157): 59 - 69 (Persian).

## REFERENCES

### **PROF. ERIK BONGCAM-RUDLOF**

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### **PROF. PATRICE HUMBLLOT DVM PHD**

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### **PROF. ALIREZA RAFIEI, DVM, PHD**

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