

Mohammadmehdi Eslamieh

mohammadmehdi.eslamieh@untDallas.edu

@mmeslamieh

<https://www.linkedin.com/in/mehdi-eslamieh-3ab7192b/>

Education and Qualifications

- **Ph.D. (July 2014 – July 2019)**

Quantitative Genomics, Department of Biology, University of Texas at Arlington, USA.

Thesis Title: Study the function of N-mt duplicated genes with male germ-line functions in *D. melanogaster*.

- **M.Sc. (Sep. 2004 –Feb. 2007)**

Genetics and Animal Breeding, Department of Animal Science, University of Tehran, Iran.

Thesis Title: Associations between bovine lactoferrin gene polymorphism and its relationship with genetic resistance to mastitis, milk yield and milk components in Holstein dairy cows in Iran.

- **B.Sc. (Sep. 2000 –Sep. 2004)**

Animal Science, Department of Animal Science, University of Tehran, Iran.

Publications

Journal

Eslamieh, M., A. Williford, and E. Betrán. Few Nuclear-Encoded Mitochondrial Gene Duplicates Contribute to Male Germline-Specific Functions in Humans. *Genome Biology and Evolution*. 2017. 9 (10): 2782–790.

Mirsalehi, A., D. Markova, **M. Eslamieh**, and E. Betrán. Nuclear transport genes recurrently duplicate by means of RNA intermediates in *Drosophila* but not in other insects. *BMC genomics*. 2021. 22(1): 1- 13.

Eslamieh, M., A. Mirsalehi, D. Markova, and E. Betrán. *COX4-like*, a Nuclear-Encoded Mitochondrial Gene Duplicate, Is Essential for Male Fertility in *Drosophila melanogaster*. *Genes*.2022. 13(3): 424- 440

Conference

- **Eslamieh, M.** and E. Betrán. 60th annual Drosophila research conference, 2019, Dallas, TX, A Nuclear-Encoded Mitochondrial Duplicated Gene, *CG10396*, Is Essential for Spermatogenesis in *Drosophila melanogaster*, Poster presentation.
- **Eslamieh, M.**, R. Parekh, and E. Betrán, 59th annual Drosophila research conference, 2018, Philadelphia, PA, The Roles of Nuclear-Encoded Mitochondrial Duplicated Genes in Spermatogenesis in *Drosophila melanogaster*, Poster presentation.
- **Eslamieh, M.** and E. Betrán. 58th annual Drosophila research conference, 2017, San Diego, CA, Functional Study of OXPHOS N-mt Duplicated Genes with Testis-Biased Expression in *D. melanogaster*, Poster presentation.
- **Eslamieh, M.**, R. Parekh, and E. Betrán, Society for Molecular Biology & Evolution, 2017, Austin, TX, Functional Analyses of N-mt Duplicated Genes with Testis-biased Expression in *Drosophila melanogaster*, Poster presentation.
- **Eslamieh, M.**, A. Williford, and E. Betrán. ACES, 2015, University of Texas at Arlington, Nuclearly Encoded Mitochondrial Gene (N-mt) Duplicates in Humans and Male Germline Functions, Oral presentation.
- **Eslamieh, M.**, A. Williford, and E. Betrán. The Allied Genetics Conference- TAGC, 2016, Orlando, FL, Few Nuclear- Encoded Mitochondrial Gene Duplicates Contribute to Male Germline-Specific Functions in Humans, Poster presentation.
- A. S. Kalantari, H. Mehrabani-Yeganeh, M. Moradi, **M. Eslamieh**, The 4th Congress on Animal Science, 2010, Tehran, Iran, Determining the optimum replacement policy for Holstein dairy herds in Iran, Oral presentation.
- A. Ayatollahi, M.Moradi, A. Nejati Javaremi, M. Zaghari, H. Mehrabani- Yeganeh, M.Ayatollahi, **M.M.Eslamieh**, The 4th Congress on Animal Science, 2010, Tehran, Iran, Divergent selection for reproductive traits in Japanese quail. Poster presentation.
- A. Zare, A. Ayatollahi, M.J. Bostan, **M. Eslamieh**, The 4th Congress on Animal Science, 2010, Tehran, Iran, Effects of Beta-Adrenergic antagonist, TERBUTALINE, on carcass characteristics and some blood parameters in Japanese quail. Poster presentation.
- **M. Eslamieh**, H. Mehrabani_Yeganeh and A. Pakdel, 58th EAAP annual meeting, 2007, Dublin, Ireland, Study of bovine lactoferrin gene polymorphism with PCR-RFLP method and its relationship to genetic resistance against mastitis, milk yield and milk component in Holstein dairy cow in Iran, Poster presentation.

Research Interests

- Genetics & genomics
- Molecular Biology
- Anatomy and Physiology
- Quantitative genetics
- General Biology

Teaching Experiences

Lecturer, UNT Dallas (Fall 2020- Now)

- Genetics
- Evolution
- Anatomy and Physiology I & II
- Biology for Science Majors I & II
- Biology for educators
- Environmental Science
- Cell Biology
- Biometry

Adjunct Professor, UNT Dallas (Spring 2018- Spring 2020)

- Anatomy and Physiology I & II
- Genetics
- Environmental Science

Adjunct Professor, TCCD (Fall 2018- Spring 2020)

- Biology I for major
- Biology II for major

Graduate Teaching Assistant, UTA (Summer 2014-Spring 2019)

- Cellular and Molecular Biology Lab
- Human Anatomy & Physiology II

Instructor of software carpentry workshops (2016-2019):

- Holding three workshops about computational tools

Graduate Teaching Assistant, UT (Spring 2004-Spring 2013)

- Quantitative Genetics
- Statistical Genetics
- Poultry Breeding

Honors and Awards

- Phi Sigma Research Grant (\$3,500), Arlington, TX. (2016-2017)
- Phi Sigma Travel Grants, Five times (\$2,500), Arlington, TX. (2016-2019)
- Scholarship from Dr. Betran lab, \$2000, Arlington, TX. (2014)
- Erasmus Mundus scholarship, European master's in animal Breeding/ Genetics. (2011)
- Ranked 2nd among graduates at BSc. in University of Tehran (2004)

Mentoring**Undergraduate Student Training**

Student Name	Semester	Award/Fund
Sophia Lee	Spring-Summer 2015	-
Rupandey Jatin Parekh	Fall 2015- Spring 2018	Honors College Undergraduate Research Fellowship
Chengrui Hu	Fall 2015- Spring 2018	-
Michael Oladugba	Summer-Fall 2017	UT System Louis Stokes Alliance for Minority Participation (LSAMP)
Imran Rashik	Spring 2016 - Spring 2018	Honors College Undergraduate Research Fellowship
Hunter Herriage	Spring 2016 – Fall 2018	-
Ayan Ahmed	Spring 2023	
Zanib Fatima	Spring 2023	

Jennifer Hernandez	Fall 2022-Spring 2023	LAS Dean Office Grant
Victoria Lyons	Spring 2023	
Julissa Perez	Spring 2023	
Marvin Prempeh	Fall 2022-Spring 2023	LAS Dean Office Grant
Micheline Mamedu	Spring 2022	
Erum Waheed	Fall 2021	
Yetseul Mendez	Spring 2021	

Membership and Activities

- Invited judge for International Science and Engineering fair (ISEF) (2023)
- Phi Sigma- Biological honor society- Member since 2014
 - Phi Sigma Biological Honors Society, Grant Coordinator (2016 - 2017)
- Genetics Society of America- Member since 2016
- Society for Molecular Biology and Evolution- Member since 2016
- Society of Asian Scientists and Engineers (SASE)- Member since 2015
 - Society of Asian Scientists and Engineers (SASE), Treasure: 2015-2017
- Member of Iranian Genetics Society-Member since 2009
- Member of Iranian Animal Science Society- Member since 2010