DR. MUHAMMAD SAFDAR

DVM (Pak), MS, PhD (Turkiye)

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- ORCID**:** 0000-0002-3720-2090
- WOS Researcher ID: M-4831-2013
- Scopus ID: 59657652200

- IF: 200+, Peer-reviewed articles: 92+, Projects: 03 (01 completed, 2 ongoing).
- **H-index is 21**, with 1669 **citations** (1,552 excluding self-citations) and **19 patent citations** according to the Web of Science Core Collection.

Personal Vitae:

- Sex : Male
- Marital Status : Married
- Nationality : Pakistani

Professional experience(s):

- Lecturer (30/11/2018 till date): Department of Breeding and Genetics, Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Pakistan.
- Postdoc (11/01/2026 till date): Marie Curie Postdoctoral Researcher at the Institute of Molecular Biology & Biotechnology, Foundation for Research & Technology-Hellas, Heraklion, Greece. **Project**: "*Development of rapid field-deployable DNA-based diagnostic kits for emerging pathogens in livestock*" (Mentor, Prof. Michail Kotsyfakis).
- 04/12/2020-17/09/2021: Researcher/lecturer at the Animal Genetics Lab, Department of Breeding and Genetics, Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Pakistan. **Project**: "*Development of PCR assay for identification of lumpy skin disease (LSD) virus in livestock*" (Investigator, Dr. Muhammad Safdar).
- 09/01/2017-30/11/2018: Researcher/instructor at the Molecular Biology Lab, Department of Biology, Virtual University of Pakistan. **Project**: "*Development of rapid multiplex PCR assays for identification of DNA origins in foodstuffs*".
- 18/06/2013-30/12/2016: Researcher at the Animal Genetics Lab, Department of Biology, Gaziantep University, Turkey. **Project**: "*Development of rapid multiplex PCR assays for identification of DNA origins in feedstuffs*" (Scientific supervisor, Prof. Mehmet Ozaslan).

Academic qualifications:

- 29/11/2022: **PhD thesis** in Molecular Biology & Genetics. Department of Biology, Gaziantep University, Turkey with distinction **"very honorable". Project: "** *Nutrigenomic and molecular genetic regulation of milk fat synthesis in dairy cattle: role of polyphenol–PPARγ interactions and MAPK signaling*" (Supervisor: Prof. Dr. Mehmet Ozaslan).
- 22/09/2011-20/10/2013: **Master's degree** in Genetics and Bioengineering applied to infectious diseases. Department of Genetics, Fatih University, Turkey. **Project:** "*Molecular diagnostics and DNA based assays for the detection of DNA origins in food and feedstuffs*" (Supervisor: Dr. Fatih Abasıyanık).
- 06/09/2006-24/06/2011: **Bachelor's degree** in Veterinary Sciences (DVM). **Project**: "*Detection and phylogeny of infectious bursal disease virus (IBDV) during field outbreaks in broilers*".

Key skills and expertise related to this application:

- **Genomics & Genetics:** Skilled in DNA/RNA extraction, PCR, molecular identification techniques, Sanger and whole-genome sequencing.
- **Embryo Transfer & Reproduction:** Hands-on experience with embryo collection, transfer, synchronization protocols, and reproductive performance evaluation in large animals.
- **Data Integration & Analysis:** Proficient in bioinformatics and statistical tools for analyzing reproductive and genetic data to enhance breeding strategies.
- **Field & Laboratory Coordination:** Experienced in managing biological samples, maintaining sterile lab conditions, and ensuring biosafety compliance.
- **Animal Breeding Programs:** Involved in designing and executing breeding improvement programs focused on genetic selection and reproductive efficiency.

Publications:

First/Corresponding author in research publications (Recent 10 articles):

- **Safdar, M.,** Imran, L., Kubra, K. T., Nasir, T., Imran, S., Junejo, Y., & Ozaslan, M. (2026). MicroRNA-mediated regulation of skeletal muscle myogenesis in ducks: association of molecular networks to environmental adaptation and meat quality. *World's Poultry Science Journal*, 1-25. **(I.F: 3.4)**
- Nasir, T., Tariq, M., Tharwat, M., **Safdar, M.,** Junejo, Y., & Alshanbari, F. A. (2026). Genome-Wide Characterization of the TGF-β Gene Family in Donkey (*Equus asinus*) Reveals Lineage-Specific Gene Duplications and Deleterious Mutations. *Animals*, 16(13), 2028. **(I.F: 3.2)**
- Nasir, T., **Safdar, M.,** Imran, S., Tariq, M., Junejo, Y., Ozaslan, M., & Younus, M. (2026). Genome-wide in silico identification and characterization of the F-box gene family in water buffalo (*Bubalus bubalis*). *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*, 101825. **(I.F: 2.9)**
- Cidan Y, Cisang Z, Tian J, Zhang X, **Safdar M,** Pubu P, Zhu Y and Basang W, 2025. Tibetan herbal formulations enhanced the antioxidant capacity of weaned female yaks by modulating the gut microbiota. Pak Vet J. http://dx.doi.org/10.29261/pakvetj/2025. **. (I.F: 6.5)**
- **Safdar, M***, Junejo, Y. (2014). Development and validation of fast duplex real-time PCR assays based on SYBR Green fluorescence for detection of bovine and poultry origins in feedstuffs. *Food Chemistry*, 173, 660–664**. (I.F: 9.8)** **DOI**
  Qualitative assessment: Develops and validates a robust and innovative duplex real-time PCR assay using SYBR Green fluorescence for rapid and accurate detection of bovine and poultry DNA in feedstuffs, with strong validation for food safety applications.
- **Safdar, M***, Yasmeen Junejo (2015). The development of a hexaplex-conventional PCR for identification of six animal and plant species in foodstuffs. *Food Chemistry*,192,745. **(I.F: 9.8)** **DOI**
  Qualitative assessment: Develops a highly sensitive hexaplex-conventional PCR assay for simultaneous identification of six animal and plant species in foodstuffs, offering a powerful tool for ensuring food authenticity and safety.
- **Safdar, M***., & M. F. Abasıyanık. (2013). Development of fast multiplex real-time PCR assays based on based on EvaGreen fluorescence dye for detection of beef and soybean origins in sausages. *Food Research International*, 54, 1652-1656. **(IF: 8.0)** **DOI**
  Qualitative assessment: Introduces a rapid and cost-effective multiplex real-time PCR assay using based on EvaGreen fluorescence for accurate detection of beef and soybean origins in sausages, enhancing food quality control.
- **Safdar, M***, & Junejo, Y. (2015). A multiplex-conventional PCR assay for bovine, ovine, caprine and fish species identification in feedstuffs: Highly sensitive and specific. *Food Control*, 50, 190-194. **(I.F: 6.3)** **DOI**

Qualitative assessment: Presents a highly sensitive and specific multiplex-conventional PCR assay for identifying bovine, ovine, caprine, and fish species in feedstuffs, advancing regulatory compliance and food safety.

- **Safdar, M***, Y. Junejo, K. Arman, M. F. Abasıyanık (2014). A highly sensitive and specific tetraplex PCR assay for soybean, poultry, horse and pork species identification in sausages: development and validation. *Meat science*, 98, 296–300. **(IF: 6.1)** **DOI**
  Qualitative assessment: Develops and validates a highly sensitive tetraplex PCR assay for simultaneous detection of soybean, poultry, horse, and pork in sausages, providing a robust tool for food authenticity verification.
- **Safdar M***, Junejo, Y., & Balouch, A. (2015). Efficient degradation of organic dyes by heterogeneous cefdinir derived silver nanocatalyst. *Journal of Industrial and Engineering Chemistry*, 31, 216-222. **(I.F: 6.0)** **DOI**
  Qualitative assessment: Demonstrates an efficient heterogeneous cefdinir-derived silver nanocatalyst for the rapid degradation of organic dyes, offering a sustainable solution for environmental pollutant remediation.
- Junejo, Y., & **Safdar M*** (2019). Highly effective heterogeneous doxycycline stabilized silver nanocatalyst for the degradation of ibuprofen and paracetamol drugs. *Arabian Journal of Chemistry*, 12(8), 2823-2832. **(I.F: 5.2)** **DOI**
  Qualitative assessment: Introduces a highly effective doxycycline-stabilized silver nanocatalyst for the degradation of ibuprofen and paracetamol, providing a novel approach to pharmaceutical pollutant removal.
- **Muhammad Safdar**, Faizul Hassan, Muhammad Sajjad Khan, Aneeb Hassan Khan, Yasmeen Junejo, Mehmet Ozaslan, Muhammad Asif Arain, Atique Ahmed Behan (2024). In silico analysis of polyphenols modulate bovine PPARγ to increase milk fat synthesis in dairy cattle via the MAPK signalling pathways. *Journal of Animal Science*, 3:102:skae248. **(I.F: 2.7)**. **DOI**
  Qualitative assessment: Utilizes in silico analysis to demonstrate how polyphenols modulate bovine PPARγ via MAPK signaling pathways, offering insights into enhancing milk fat synthesis in dairy cattle.

Co-author in Research Publications (Recent 10 articles):

- Wadood, A. A., Bordbar, F., **Safdar, M.,** & Zhang, X. (2026). Molecular profiling of signaling pathways involved in chicken ovarian follicle development by transcriptome sequencing. *Frontiers in Veterinary Science*, 12, 1676247. **(I.F: 3.1)**
- Liu, Y., Dong, Y., **Safdar, M.,** Liu, M., & Li, K. (2026). *Lactobacillus johnsonii* DY2 Isolated from Yaks Alleviated Acute *Escherichia coli* Infection via Modulating Inflammatory Responses, Antioxidant Capacity, and Gut Microbiota. *Veterinary Sciences*, 13(2), 132. **(I.F: 2.7)**
- Zhang, Q., Zhu, Z., Xu, Z., **Safdar, M.,** Liu, W., & Li, K. (2026). *Blastocystis* spp. Positivity Is Associated with Altered Fecal Bacterial Communities and Reduced Short-Chain Fatty Acid Concentrations in Diarrheic Yaks. *Veterinary Sciences*, 13(9), 910. **(I.F: 2.7)**
- Tariq, M., Tharwat, M., Batool, S., Quddus, A., **Safdar, M.,** & Alharbi, Y. M. (2026). Integrated hormonal, metabolic, and epigenetic regulation of corpus luteum function: insights into steroidogenesis, angiogenesis, and regression. *Frontiers in Endocrinology*, *17*, 1812524. **(I.F: 4.6)**
- Chen J, Xu C, He Q, Ali M, **Safdar M,** Li X, Li K. (2025). Galla chinensis polysaccharide alleviates liver fibrosis induced by CCl_4 through regulating Nrf2/HO-1 signal pathway, gut microbiota, and liver metabolism. *International Journal of Biological Macromolecules, 320,* 145793. **(IF: 8.5)** **DOI**
  Qualitative assessment: Demonstrates the therapeutic potential of *Galla chinensis* polysaccharide in alleviating CCl_4-induced liver fibrosis by modulating the Nrf2/HO-1 pathway, gut microbiota, and liver metabolism, offering a novel approach for liver disease treatment.
- Salajegheh Tazerji S, Magalhães Duarte P, Rahimi P, Shahabinejad F, Dhakal S, Singh Malik Y, Shehata AA, Lama J, Klein J, **Safdar M** (2020). Transmission of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) to animals: an updated review. *Journal of translational medicine*, 18(1), 1-11. **(IF: 7.5)** **DOI**

Qualitative assessment: Provides a comprehensive overview of SARS-CoV-2 transmission to animals, synthesizing critical insights to guide zoonotic disease research and public health strategies.

- Noreen S, Ma JX, Saeed M, Pervaiz F, Hanif MF, Ahmed B, Farooq MI, Akram F, **Safdar M**, Madni A, Naveed M (2022). Natural polysaccharide-based biodegradable polymeric platforms for transdermal drug delivery system: a critical analysis. *Drug Delivery and Translational Research*. **(IF: 5.5)** **DOI**
- **Qualitative assessment:** Critically analyzes natural polysaccharide-based biodegradable polymeric platforms, highlighting their potential as effective transdermal drug delivery systems for enhanced therapeutic outcomes.
- Saeed M, Khan MS, Kamboh AA, Alagawany M, Khafaga AF, Noreldin AE, Qumar M, **Safdar M,** Hussain M (2020). L-theanine: an astounding sui generis amino acid in poultry nutrition. *Poultry Science*, 99(11), 5625-36. **(IF: 4.2)** **DOI**
  Qualitative assessment: Explores the unique benefits of L-theanine as a novel amino acid in poultry nutrition, demonstrating its potential to improve health and productivity in poultry farming.
- Malik YS, Kumar P, Ansari MI, Hemida MG, El Zowalaty ME, Abdel-Moneim AS, Ganesh B, Salajegheh S, Natesan S, Sircar S, **Safdar M,** Vinodhkumar OR, Duarte PM, Patel SK, Klein J, Rahimi P and Dhama K (2021). SARS-CoV-2 Spike Protein Extrapolation for COVID Diagnosis and Vaccine Development. *Front. Mol. Biosci*. 8:607886. doi: 10.3389/fmolb.2021.607886. **(IF:4.0)** **DOI**
  Qualitative assessment: Investigates SARS-CoV-2 spike protein applications in diagnostics and vaccine development, providing critical insights for advancing COVID-19 research and therapeutic strategies.
- Tazerji, S.S.; Nardini, R.; **Safdar, M**.; Shehata, A.A.; Duarte, P.M (2022). An Overview of Anthropogenic Actions as Drivers for Emerging and Re-Emerging Zoonotic Diseases. *Pathogens*, 11, 1376. **(IF: 3.3)** **DOI**
  Qualitative assessment: Offers a comprehensive overview of anthropogenic factors driving emerging and re-emerging zoonotic diseases, informing strategies for global health and disease prevention.
- Qaiser, S., Mubarak, M. S., Ashraf, S., Saleem, M., Ul-Haq, Z., **Safdar, M.,** & Maalik, A. (2021). Benzilydene and thiourea derivatives as new classes of carbonic anhydrase inhibitors: an in vitro and molecular docking study. *Medicinal Chemistry Research*, 30(3), 552-563. **(IF: 3.1)** **DOI**
  Qualitative assessment: Identifies benzilydene and thiourea derivatives as novel carbonic anhydrase inhibitors through in vitro and molecular docking studies, contributing to the development of new therapeutic agents.
- Deng, K.; Xu, C.; He, Q.; **Muhammad Safdar**; Nazar, M.; Li, X.; Li, K (2025). *Angelicae Pubescentis Radix* Remitted Intestine Damage in Mice Induced by Escherichia coli via Mediating Antioxidant Defense, Inflammatory Mediators, and Restoring Gut Microbiota. *Veterinary Sciences*, 12, 354. **(I.F: 2.3)** **DOI**
  Qualitative assessment: Demonstrates the protective effects of *Angelicae Pubescentis Radix* against *E. coli*-induced intestinal damage in mice by modulating antioxidant defenses, inflammatory mediators, and gut microbiota.
- Muhammad Adil, Farrah Deeba, Muhammad Tariq, Muhammad Usman, Saba Saeed, Eliana Ibáñez-Arancibia, Patricio De los Ríos-Escalante, **Muhammad Safdar** (2025). Therapeutic efficacy of *Centratherum anthelminticum* in subclinical mastitis: A biochemical and haematological assessment in lactating cattle. *Veterinary World*, 18(6): 1741-1747. **(I.F: 2.0** **DOI**
  Qualitative assessment: Evaluates the therapeutic efficacy of *Centratherum anthelminticum* in treating subclinical mastitis in lactating cattle, providing biochemical and hematological evidence for its veterinary applications.

Edited books (03):

- **Safdar, M.** (Ed.). (2025). *Advances in Veterinary and Agricultural Sciences*. ISRES Publishers. ISBN: 978-625-6959-90-3.
- **Safdar, M** (2024). *Animal Production and Health*. ISRES Publishing. ISBN: 978-625-6959-64-4.

- Ozaslan, M., & **Safdar, M** (2023). *Current Studies in Health and Life Sciences 2023*. ISRES Publishing. ISBN: 978-625-6959-18-7.

Book chapters (Top 10 based on their relevance to the application out of 40):

- Tanveer Nasir, **Muhammad Safdar**, Salma Bibi, Shafeeq Ur Rehman, Mehmet Ozaslan (2024). *Emerging infectious diseases and their preventive measures.* In: *Current Studies in Life Science*, ISRES Publishing, pp. 1–22.
- Maria Nazir, Rohina Arif, Jawad Aslam, Shafeeq Ur Rehman, Muhammad Mudassair, **Muhammad Safdar**, Mehmet Ozaslan (2024). *Microbial threats: Global health governance in the age of superbugs.* ISRES Publishing, pp. 48–73.
- **Muhammad Safdar**., Rehman, S., Hussain, M., Nawaz, M. N., Mueen, M. A., Subhani, F., Nazir, S., & Ozaslan, M (2023). Antimicrobial resistance (AMR): a global challenge in infection, prevention and control. ISRES Publishing, pp. 2–29.
- **Muhammad Safdar**., Rehman, S., Shafqat, F., Shan, M., & Ozaslan, M (2023). A global burden of lumpy skin disease, outbreaks, and future challenges. ISRES Publishing, pp. 284–300.
- Shahnaz, **Muhammad Safdar**., & Junejo, Y. (2023). Drug-based synthesized silver nanoparticles against pathogenic bacteria. ISRES Publishing, pp. 117–122.
- Sundas Ashraf, Maria Nazir, Muhammad Haris Khan, Iqra Fazil, Atif Ahmed, Minahal Fatima, **Muhammad Safdar**, Yasmeen Junejo (2024). *Nanotechnology in microbiology: Bridging tiny worlds for big impact.* ISRES Publishing, pp. 74–102.
- Maria Nazir, Hameer Khan Khaskheli, Nighat Batool, Rumaisa Nawal, Minal Hussain, Danish Riaz, Shafeeq Ur Rehman, **Muhammad Safdar** (2024). *Revolutionizing chronic disease management with precision medicine*. ISRES Publishing, pp. 103–130.
- Muhammad Masood Ahmed, Fahad Ullah, Muhammad Nazir Uddin, **Muhammad Safdar** (2024). *Microbiome and autoimmune diseases.* ISRES Publishing, pp. 131–144.
- Maria Nazir, Aansa Tahreem, Fatima Sagheer, Rumaisa Nawal, Shafeeq Ur Rehman, **Muhammad Safdar**, Mehmet Ozaslan (2024). *Rebooting the body's defense: Innovations in immunotherapy treatment.* ISRES Publishing, pp. 145–163.
- Arooj Fatima, Shafeeq Ur Rehman, Faizan Ali, Minahal Fatima, Khizar Abbas, Mehmet Ozaslan, **Muhammad Safdar** (2024). *Innovations and principles of vaccine development for livestock.* ISRES Publishing, pp. 494–510.

Awards & research funding:

Awards:

- 2026–2028: Recipient of the "*MSCA research fellowship*", Greece (63.17 million PKR). " TICKGUARD — Gateway surveillance as an early warning system for emerging tick-borne pathogens in Europe".
- 04/05/2025: Recipient of the *"Outstanding highest impact factor award 2025*" in order to cumulative highest impact factor in a year (2024).
- 04/11/2024: Recipient of "*Outstanding principal investigator award 2024*" in recognition of securing the 4.1 million (PKR) grants for development of multiplex PCR kit for identification of DNA origins in commercial food samples.
- 04/11/2024: Recipient of the "*Outstanding highest impact factor award 2024*" in order to cumulative highest impact factor in a year (2023).
- 22/09/2011-20/10/2013: Recipient of the "*Punjab government foreign merit scholarship"* (Master degree)", Pakistan (US $36,000) in order best performance in NTS test (98%).

Funding:

- 2026–2028: Recipient of the "*MSCA research fellowship*", Greece (63.17 million PKR). **Project**: "TICKGUARD — Gateway surveillance as an early warning system for emerging tick-borne pathogens in Europe" funded by HORIZON-AG-UN (Principal Investigator, Dr. Muhammad Safdar) (63.17 million PKR).
- 30/11/2022-30/09/2025: Researcher/lecturer at the Animal Breeding and Genetics Lab, Department of Breeding and Genetics, Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Pakistan. **Project: "**Development of rapid authentication technologies using

specific DNA for meat/animal/plant species identification to verify the labeling/mislabeling/adulteration of commercial products in Pakistan" funded by Pakistan Science Foundation, Islamabad (Principal Investigator, Dr. Muhammad Safdar) (4.1 million PKR).

- 01/06/2022-30/05/2027: Researcher/lecturer at the Animal Breeding and Genetics Lab, Department of Breeding and Genetics, Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Pakistan. **Project: "**Development of Rohi Chicken for Cholistan" funded by PARB (Team member, Dr. Muhammad Safdar) (34.327 million PKR).

Participation at international conferences:

- 10/07/2025-13/07/2025: International conference on medical, health and life sciences, Peja, Kosovo, Europe. **Oral talk:** "Sustainability and organic livestock in 2050: challenges and innovations".
- 06/07/2024-09/07/2024: International conference on medical, health and life sciences, Budapest, Hungary, Europe. **Oral talk:** "Development of rapid molecular diagnostic assays for the tick borne-pathogens in blood and tick samples".
- 22/08/2024-25/08/2024: International conference on medical, health and life sciences, Tashkent, Uzbekistan. **Oral talk**: "Advances in molecular diagnostic assays for the detection of *Theileria* and *Trypanosoma* pathogens in livestock".
- 24/04/2024-25/04/2024: 8th International conference on the global halal food industry, BZU, Multan, Pakistan. **Poster:** "Development of fast multiplex PCR assay for identification of dog, cat and pig DNA in food samples".
- 22/02/2024-23/02/2024: 9th Invention to innovation summit 2024, Punjab University, Lahore, Pakistan. **Poster:** "Development of affordable multiplex PCR assay for identification of haram meats in mixed food samples".

Participation at international workshops:

- 19/08/2024-29/08/2024: 5th International training workshop on regulatory approaches for agricultural applications of animal biotechnologies, hosted by the University of California, Davis, USA (online).
- 15/11/2022-29/11/2022: International training workshop on rapid molecular diagnosis of zoonotic pathogens, hosted by Gaziantep University, Turkey.
- 15/11/2023-19/11/2023: International workshop for identification of lumpy skin disease (LSD) virus and their vectors in livestock, hosted by CUVAS, Pakistan and provided by German scientists.

Supervising & mentoring activities:

Supervision of students:

- As a researcher at CUVAS, Pakistan, I supervised 13 MS students' dissertations: 4 at the faculty of animal production and technology, 3 at the faculty of biosciences, and 6 at the institute of molecular biology and microbiology.

Teaching:

- I have been involved in teaching at the "molecular biology and genetics" BSc program of the faculty of animal production and technology at the Cholistan University, Pakistan. I have also delivered the practical courses of "parasitology" at the Cholistan University, Pakistan (7 years), Virtual University of Pakistan (1.9 years). I have also participated in teaching practical courses of "molecular techniques" at the faculty of biosciences, Virtual University of Pakistan.

Mobility for obtaining training/ establishing new collaborations:

- 01/10/2025-30/09/2026: Training and research on "Development of pebble-based LAMP assays and qPCR protocols for molecular detection of tick-borne pathogens, including *Babesia*,

Theileria, Anaplasma, and Crimean-Congo Hemorrhagic Fever Virus" at the IMBB-FORTH Crete, Greece (MSCA Host Institution).

- 01/03/2024-30/02/2025: Training and collaborative research on "Molecular detection, identification, and genomic characterization of zoonotic pathogens, including Babesia, Theileria, and other tick-borne pathogens" College of Veterinary Medicine, Nanjing Agricultural University, Nanjing, China.
- 18/06/2013-30/12/2016: Research training on "development of rapid multiplex PCR assays for identification of bacterial DNAs in foodstuffs" Gaziantep University, Gaziantep, Turkey.
- 22/09/2011-20/10/2013: Training and research on "molecular diagnostics and serological assays for the detection of zoonotic and tick-borne pathogens" Fatih University, Istanbul, Turkey.

Services:

- 30/11/2018–Present: Thesis committee member, CUVAS, Bahawalpur. I guided 13 MPhil theses on molecular biology, microbiology and biotechnology.
- 01/01/2020–30/12/2022: Workshop Coordinator, CUVAS, Bahawalpur. I organized 3 trainings on PCR and bioinformatics for 50+ participants.
- 30/11/2018–Present: Peer Reviewer. *Journal of Animal Science etc.* I reviewed 15+ manuscripts on diagnostics and pathogen genomics.

References:

- **Prof. Mehmet Ozaslan, PhD**
  Professor, Department of Biology, Division of Molecular Biology and Genetics, Gaziantep University, Gaziantep, Turkey | Tel: +903423601945, Ext: 1945 | Contact: +905322165006 | E-mail: ozaslanmd@gantep.edu.tr