



TANZIL UR RAHMAN (Ph.D. Post. Doc.)

Endocrinology90@gmail.com

Assistant Professor

Centre for Animal Sciences and Fisheries

University of Swat

Cell: +923326609586

EDUCATION

2014 to 2018: **Ph.D. in Animal Physiology**, Department of Physiology Zhejiang University, School of Basic Medicine, Hangzhou, China

Thesis Title: The effects of metabolic and endocrine alterations on uterine endometrium and offspring metabolism.

Research Interests:

- Physiology
- Endocrinology
- Obesity and Reproduction

2012 to 2014: **M.Phil. in Endocrinology**, Department of Zoology, Quaid-i-Azam University, Islamabad, Pakistan

Thesis Title: Seasonal variation in expression of RF-amide related Peptide-3 and its receptor GPR147 in the hypothalamus of adult male rhesus monkey (*Macaca mulatta*).

2010 to 2012: **M.Sc. in Zoology**, Department of Zoology, Quaid-i-Azam University, Pakistan

2007 to 2009: **B.Sc. in Biological Sciences**, Islamia College Peshawar, Khyber Pakhtunkhwa, Pakistan

2005 to 2007: **F.Sc. Pre-medical group**, GPGC, Bannu, Khyber Pakhtunkhwa, Pakistan

2003 to 2005: **Matriculation**, GHS HassuKhel, Tribal District, North Waziristan, Khyber Pakhtunkhwa, Pakistan

PROFESSIONAL EXPERIENCE

- September 17th 2020 to 16 Sept 2021: **IPFP Fellow**, through HEC-IPFP program for 1 year in the Department of Zoology, University of Okara, Punjab, Pakistan.
- July 27th 2018 to June 30 2020: **Postdoctoral Fellow** at Zhejiang University, China.
- September 25th 2021 to August 20 2022: **Assistant Professor (Visiting)**, in the Department of Zoology, University of Okara, Punjab.
- **Assistant Professor (Visiting)** at University of Swat in the Department of Zoology (CASF).
- I worked as an **Assistant Professor (BPS-19)** from July 4, 2023, to December 29, 2023 regularly at the Department of Zoology, University of Chitral.

- Currently, I am working as an **Assistant Professor (BPS-19)** at the Centre for Animal Sciences and Fisheries, University of Swat.

RESEARCH METHODS/TECHNIQUES

- Used *in vivo* disease models of mice, rats, and monkeys for human diseases and biomedical research.
- **Mammalian cell culture**, *In-vitro* cell assays (Proliferation, Migration and Transwell assays, and Cell-based RNAi assay development for high throughput screen/screening).
- **Micro punching for brain nuclei** to study cells proteomics and microRNA transcriptomes.
- **Cell biology techniques** (microscopy, flow cytometry, IHC, IF).
- **Molecular biology techniques** (Gene blocking, mRNA extraction, qRT-PCR, western blot, gel electrophoresis).

GRANT (Funded as Principal Investigator)

- Human Synthetic Irisin administration may alter DWORF *micropeptide* expression in the cardiac muscle of DIO mice. (1 Million PKR completed)

HONORS AND AWARDS

- Gold Medalist (B.Sc.)
- Higher Education Commission of Pakistan Scholarship (M.Sc.)
- Higher Education Commission of Pakistan internship (M.Phil.)
- 2014-2018: Chinese Government Scholarship Program (Ph.D.)
- 2018-20: 100 International Talent Induction Program (Postdoc)

CONFERENCES/SEMINARS/WORKSHOP

- International symposium of "mitochondrial disease" held on 8th July 2017 at Zhejiang University Hangzhou, China.
- Genetic susceptibility of obesity in Chinese children and adolescents held on 15th July 2016 at Zhejiang University Hangzhou, China.
- One-week Workshop on "Application of Statistics and data Analysis used in Neurosciences" held from 24th--to--28th June 2013 at QAU Islamabad, Pakistan.
- 1st Conference on "The Thyroid Gland: Understanding Basic and Clinical aspects" held on 25th May 2012 at QAU Islamabad, Pakistan.

AREAS OF INTEREST

- Endocrinology
- Physiology
- Neuroendocrinology
- Enzymology
- Comparative Endocrinology
- Metabolic Disorders
- Reproductive Biology

COMPUTING SKILLS

- Microsoft Office Suite, Internet Explorer, Graphed Prism and Image J etc.

LANGUAGES

1. English (Excellent)
2. Urdu (Excellent)
3. Chinese (Fair)

PUBLICATIONS

1. MiR-183-5p regulates uterine receptivity and enhances embryo implantation (2020).
2. Ameliorative effect of *Caryopteris grata* Benth. Against Arsenic Induced Enzymatic Alterations in Testis of Albino BALB/c mice (2019)
3. An alternative splicing variant of mineralocorticoid receptor in preeclampsia tissues and its impact on endothelial dysfunction (2020).
4. Serum estradiol levels in controlled ovarian stimulation directly affect the endometrium (2017).
5. Phoenixin-14 concentrations are increased in association with luteinizing hormone and nesfatin-1 concentrations in women with polycystic ovary syndrome (2017).
6. Intrauterine hyperglycemia exposure results in intergenerational inheritance via DNA methylation reprogramming on F1 PGCs (2018).
7. High leptin level attenuates embryo development in overweight/obese infertile women by inhibiting proliferation and promotes apoptosis in granule cell (2017).
8. Bisphenol A Exposure May Induce Hepatic Lipid Accumulation via Reprogramming the DNA Methylation Patterns of Genes Involved in Lipid Metabolism (2016).
9. RF9 Rescues Cortisol-Induced Repression of Testosterone Levels in Adult Male Macaques (2021).
10. Changes in irisin release in response to peripheral Kisspeptin-10 administration in healthy and obese adult men (2019).
11. Gonadotropin inhibitory hormone and RF9 stimulate hypothalamic-pituitary-adrenal axis in adult male rhesus monkeys (2017).
12. Prevalence of Diabetes Mellitus in Hepatitis C Patients in Wazirabad Tehsil of Gujranwala District of Pakistan: hepatitis C in Diabetic patients (2020).
13. Irisin administration upregulate DWORF *micropeptide* expression in the cardiac muscle of diet induced-obese mouse model (*Submitted to PLOS ONE*)
14. Epidemiological Studies of Sleep Disorder in Educational Community of Pakistani Population, its Major Risk Factors and Associated Diseases (2022).
15. Androgen-induced alterations in endometrial proteins crucial in recurrent miscarriages (2018).

BOOK CHAPTER

1. Helicobacter and Endocrine dysfunctions. A potential connection (**Cambridge Publisher**).

REFERENCES

- **Jianzhong Sheng** M.D., Ph.D. (Ph.D. Supervisor)
Professor of Physiology
School of Medicine, Zhejiang University
Hangzhou, 310058, China
E-mail: 11418348@zju.edu.cn
- **Muhammad Shahab** DVM., Ph.D. (MPhil Supervisor)
Professor of Endocrinology
Quaid-i-Azam University, Islamabad, Pakistan
E-mail: shahab@qau.edu.pk
- **Dr. Muhammad Saleem Khan** (Ph.D.)
Assistant Professor
Department of Zoology
University of Okara
Punjab, Pakistan
E-mail: samiikhan@uo.edu.pk

(Tanzil Daur)