

MEHWISH DAVID

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RESEARCH INTERESTS

Endocrinology, reproductive disorders and infertility, neuroendocrine regulation of HPG axis, Epigenetic control of gametogenesis and reproductive system, Reprotoxicity and its influence, Endocrine disruptors and reproductive physiology

EDUCATION

- **PhD** (since February 2017 to date) Currently enrolled in Reproductive Physiology laboratory, Department of Animal Sciences at Quaid i Azam University, Islamabad
- **M. phil (2016)** in Reproductive Physiology laboratory, Department of Animal Sciences at Quaid i Azam University, Islamabad
M. phil Dissertation title: “Contraceptive efficacy and sterility induced by oral administration of methanolic leaf extract of *Asplenium dalhousiae* Hook. In adult male rats”
- **M.Sc** (2014) in Zoology, from Department of Animal Sciences at Quaid i Azam University, Islamabad
- **B.Sc** (2012) in Zoology, Botany, Chemistry from University of the Punjab, Pakistan

RESEARCH EXPERTISE

- Animal handling and breeding
- Histological Analysis/ Biochemical Analysis
- Elisa/EIA/ In vitro studies
- Daily sperm production/ Stereological Analysis
- Semen analysis, Comet Assay
- RT PCR
- DNA RNA extraction/Gel Electrophoresis

KEY SKILLS

- Punctual, Responsible and hard working.
- Self-motivated with a desire of continuous learning.
- Good Communication skills

PROFESSIONAL EXPERIENCE

- One year Internship experience as a Research Assistant in Reproductive Physiology Lab, QAU, Islamabad under Prime Minister Youth program 2016.
- Two year work experience as a Research Assistant in HEC approved Project no 20-4218/R&D/HEC/14/1055 entitled “Use of medicinal plants as male contraceptives; search for natural/herbal contraceptive”

ACADEMIC HONORS

- Merit fellowship awarded by Quaid-i-Azam University Islamabad during M.Sc (2012-2014) and M. phil studies (2014-2016)

- Merit fellowship awarded by Quaid-i-Azam University Islamabad during PhD (from 2017 to today)

Membership of Societies and Organizations

- Member of Endocrine Society (Member ID: 471247)

PUBLICATIONS

1. Ain, Qurat-Ul, **Mehwish David**, Qasim Shah, Mushtaq Ahmad, and Sarwat Jahan. "Antifertility effect of methanolic leaf extract of *Chenopodium ambrosioides* Hook. in male Sprague Dawley rats." *Andrologia* (2018): e13129. (1.5)
2. Naham, Waheed Ullah, **Mehwish David**, Humaira Rehman, Sarwat Jahan. "Comparative Study of Environmental Pollutants Bisphenol A and Bisphenol S on Sexual Differentiation of Anteroventral Periventricular Nucleus and Spermatogenesis: A Focus on their Potential Involvement as an Estrogenic Endocrine Disruptor. Toxicology reports (2018). Under review (Manuscript ID: TOXREP_2018_568)
3. **Mehwish David**, Ain, Qurat-Ul, Mushtaq Ahmad, Wajid Zaman and Sarwat Jahan. 'A biochemical and histological approach to study antifertility effects of methanol leaf extract of *Asplenium dalhousiae* Hook in adult male rats'. *Andrologia* (2018). Under Review. (Manuscript ID: AND-18-519)

ABSTRACT PRESENTED IN CONFERENCES/PROCEEDINGS

- Shafaq Javadia, **David Mehwish**, Jahan Sarwat. Antiovarian antibodies concentrations: A contributory causing infertility. ISESCO wins Women in Science Conference on Contribution of Pakistani Women in Scientific and Social Development 2016. Department of Biochemistry Quaid i Azam university, Islamabad. (Poster presentation)
- **Mehwish David**, Qurat ul Ain, Sarwat Jahan. "Contraceptive efficacy and sterility induced by oral administration of *Asplenium dalhousiae* Hook. leaf extract on male adult rats". 14th EURASIA Conference on Chemical Sciences 15-18 December 2016. (Oral presentation)
- **Mehwish David**, Sarwat Jahan "Effects of Bisphenol A and Bisphenol S as an Endocrine Disruptors on Female Reproductive System: A Comparative Study" in 37th Pakistan Congress of Zoology (International) held in Government College Faisalabad (Feb 28-Mar 03, 2017). (Oral presentation) (impact factor 0.5)
- **Mehwish David**, Qasim Shah, Sarwat Jahan. "Antifertility Effects of *Mentha longifolia* L. on Reproductive System of Adult Male Rats" in 2nd International conference on innovative biological and public health research (IBPHR-2017) to be held in Government College Lahore (December 6-7, 2017). (Oral presentation)
- **Mehwish David**, Amina Ayub, Sarwat Jahan. "An Aphrodisiac Ethanolic Seed Extract of *Chenopodium album* L. and Vitamin C as Effective Therapeutic Agents against Mercury induced Testicular Toxicity in Sprague-Dawley Rats: A Comparative Histopathological Approach" in 38th Pakistan Congress of Zoology (International) held in University of the Punjab, Lahore (Feb 27- Mar 01, 2018). (Oral presentation) (impact factor 0.5)
- **Mehwish David**, Wardah Khan, Sarwat Jahan. "Study of reproductive toxicity induced by endocrine disruptors in adult Zebra fish" to be held in 39th Pakistan Congress of Zoology (International) held in Islamia College University, Peshawar (Mar 04-06, 2019). (Accepted for Oral presentation) (Upcoming).

NATIONAL WORKSHOPS, TRAININGS AND SEMINARS			
S.No.	Title	Venue & Dates	Organizers

1.	1-Day Seminar on “Genetics and therapeutics of cancer”	Quaid I Azam, Islamabad	Human Genetics Lab, Dept of Animal Sciences Faculty of Biological Sciences, QAU, Islamabad
2.	Seminar on “Brucellosis in Humans and Animals” and “Brucellosis – Biosafety and Biosecurity”	Quaid I azam, Islamabad Oct 26, 2016	Dept of Animal Sciences, Faculty of Biological Sciences, QAU, Islamabad
3.	Symposium on “Current trends in Genomics”	Quaid I azam university May 8, 2014	Human Genetics Lab, Dept of Animal Sciences Faculty of Biological Sciences, QAU, Islamabad
4.	Symposium on “Donate to Deserving: from diagnosis to blood transfusion in thalassemia patients”	Quaid I azam university	Department of Animal Sciences and Microbiology in collaboration with Pakistan Thalassemia Welfare Society (PTWS) Quaid-i-Azam University Islamabad.
5.	3 days training workshop on “Research tools and techniques SPSS and research methodology”	Pakistan Science and Technological Information Center (PASTIC) Islamabad July 26-28, 2017	Pakistan Science and Technological Information Center (PASTIC) Pakistan Science Foundation
6.	“Make your research life easy with MENDELEY tool: Literature search and management of citations and PDF”	Pakistan Science and Technological Information Center (PASTIC) Islamabad August 17-19, 2017	Pakistan Science and Technological Information Center (PASTIC) Pakistan Science Foundation
7.	Seminar on “The intestinal microbiota and antibiotic resistance: Challenges and Oppurtunities”	Auditorium, Faculty of Biological Sciences November 2, 2017	Department of Microbiology under PERIDOT
9.	Pakistan-China Genomics Workshop on Global Omics Data Sharing Initiative of Beijing Institute Of Genomics, Chinese Academy Of Sciences	National Center for Bioinformatics, Quaid I Azam University July 17-19, 2018	Quaid i Azam University Beijing Institute of Genomics, Chinese Academy Of Sciences National Center For Bioinformatics, Quaid i Azam University Higher Education Commission
10.	3 days training workshop on qPCR	Department of Biochemistry, Faculty of Biological Sciences Quaid i Azam University September 4-6, 2018	Department of Biochemistry, Quaid i Azam University

REFERENCES

- Dr. Muhammad Shahab Professor Neuroendocrinology Reproductive Physiology, Dean Department of Animal Sciences, Quaid i Azam University, Islamabad (shahab@qau.edu.pk)
- Dr. Sarwat Jahan Professor Reproductive Physiology, Department of Animal Sciences, Quaid i Azam University, Islamabad (sjahan@qau.edu.pk)

*Further References Can Be Furnished On Demand