



PERSONAL

Dr. AHMED WAQAS

INFORMATION

ahmed.waqas@ue.edu.pk, ravian643@gmail.com

[LinkedIn Research Gate](#)

Department of Zoology, Division of Science and Technology,
University of Education, Lahore, Punjab Pakistan.
Phone: +923348312048

SUMMARY

Biomedical researcher with experience in field of cell & molecular biology, genetics. Expertise in non-coding RNAs with hand on experience of working with *C. elegans*. Proven ability in human genetics and animal studies. Experience of field work in data collection as well as genetic counselling for inherited disorders. Well-developed planning, management and analytical skills. Worked in a lab for molecular toxicology by using model organism *C. elegans*. Joined **University of Education as Assistant Professor Zoology since September 2020.**

SIGNIFICANT ACHIEVEMENT

CSC Fellowship, USTC, China 2014-2018 (for PhD)

January 2019-. September 2020 **Post-Doctoral Researcher**

Chinese Academy of Sciences

Molecular Toxicology Researcher; working on epigenetic mechanisms of persistent organic phosphates (POPs) and High Magnetic field effects by using *C. elegans*.

RESEARCH EXPERIENCE

PhD

Lab of Functional Study for noncoding RNAs, University of Science and Technology of China, Hefei (P.R. China)

Sept. 2014-October. 2018

RNA/ DNA profiling

Molecular Techniques

Micro Injection

Genetical Crosses

Life Span Assays

Imaging Analysis

Bsic Techniques for phenotypic, behavioral and toxicological assesments in *C. elegans*.

Feb. 2010-April. 2012

[MS Research Scholar](#)

Department of Biochemistry, Quaid i Azam University, Islamabad (Pakistan)

EDUCATION

2014-2018

[PhD \(Cell/Molecular Biology\)](#)

University of Science and Technology of China, Hefei (P.R. China)

Thesis: A modulatory role of mir-83 in life span of *C. elegans*.

2010-2012

[Mphil \(Biochemistry/ Moleclar Biology\)](#)

Quaid i Azam University, Islamabad (Pakistan)

Thesis: Expression Analysis of Man1b1.

2007-2009

[MSc \(Zoology\)](#)

Institute of Pure & Applied Biology, Bahauddin Zakariya University, Multan (Pakistan)

Thesis: Prevalence of Scabies.

PUBLICATIONS

- 1- ATP9A Deficiency Causes ADHD and Aberrant Endosomal Recycling via Modulating RAB5 and RAB11 Activity. **Molecular Psychiatry** **2023**. Du Feng, Tian Meng..... **Waqas A**, Qian Liu, Chuan Zhang, Xiang-Dong Sun, Huansen Huang, Muhammad Umair, and Yousheng Yan.
- 2- A Novel Homozygous Truncating Variant in PPFIBP1 Further delineates PPFIBP1-associated neurodevelopmental disorder. **International Journal of Developmental Neuroscience**, **2022**. **Waqas A**, Liaqat R.... Abbas S.
- 3- A novel biallelic variant further delineates PRDX3-related autosomal recessive cerebellar ataxia. **Neurogenetics**, **2022**. Rafeeq M. M, Umair M, Bilal A, Habib M.A, **Waqas A**, Sain Z.M, Alam Z.M, Ali, R.H.S
- 4- Homozygous Missense Variant in the N-Terminal Region of ANK3 Gene

Is Associated with Developmental Delay, Seizures, Speech Abnormality, and Aggressive Behavior. **Molecular Syndromology**, 2022. Younus M, Rasheed M, **Waqas A***.

5- Biallelic Variant in the tRNA methyltransferase domain of the AlkB Homolog 8 causes Syndromic Intellectual Disability. **Frontiers in Genetics**, 2022. **Waqas A***, Anam Nayab, Shabnam Shaheen, Muhammad Lateef, Misbahuddin M Rafeeq, Ziaullah M Sain, Muhammad Umair*.

6- Gain-of-function p. F28S variant in RAC3 disrupts neuronal differentiation, migration and axonogenesis during cortical development, leading to neurodevelopmental disorder. **Journal of Medical Genetics**, 2022. Masashi Nishikawa, Marcello Scala, Muhammad Umair, Hidenori Ito, Ahmed Waqas..... Koh-ichi Nagata.

7- CFTR mutations causing congenital unilateral absence of the vas deferens (CUAVD) and congenital absence of the uterus (CAU) in a consanguineous family. **Asian Journal of Andrology**, 2021. Mahdieh Daliri Ghouchanatigh. Ranjha Khan. Majid Mojarrad. Uzma Hameed. Muhammad Zubair. Ahmed Waqas..... Qing Hua Shi.

8- Variants in the PNPLA1 Gene in Families with Autosomal Recessive Congenital Ichthyosis Reveal Clinical Significance. **Molecular Syndromology**, 2021. Farooq Ahmad. Ishtiaq Ahmad..... **Waqas A**, Misbahudin Rafeeq, Ziaullah Sain, Muhammad Umair.

9- Clinical and molecular delineation of PUS3-associated neurodevelopmental disorders. **Clinical Genetics**, 2021. Miriam Nøstvik, Sarah M Kateta, Bitten Schönewolf-Greulich, Alexandra Afenjar, Magalie Barth... **Waqas A**, Alban Ziegler, Renzo Guerrini, Rikke S Møller, Zeynep Tumer.

10- Biallelic variant in DACH1, encoding Dachshund Homolog 1, defines a novel candidate locus for recessive postaxial polydactyly type A. **Genomics**, 2021. Muhammad Umair, Oliva Palander..... **Waqas A**, Misbahuddin Rafeeq, Majid Alfadhel.

11- Targeted Exome Sequencing Identified a Novel Frameshift Variant in the *PGAM2* Gene Causing Glycogen Storage Disease Type X. **European Journal of Medical Genetics**, 2021. Anam Nayab, Qamre Alam, Ranjha Khan, Sara Sarfaraz, **Waqas A***. Muhammad Umair*.

12- Exonuclease5 is dispensable for meiotic progression and male fertility in mouse. **Gene**, 2020. Qamar zaman, Ranjha Khan, Uzma Hmeed, Wasim Shah, **Waqas A**, Muhammad Zubair, Sobia Dil, Tuba zafar, Asim Ali, Ahsanullah Unar, Qinghua Shi.

13- Loss of miR-83 extends lifespan and affects target gene expression in an age-dependent manner in *Caenorhabditis elegans*. **Journal of Genetics and Genomics**. 2018. Dzakah EE ☺, **Waqas A**, Wei S, Yu B, Wang X, Fu T, Liu L,

Shan G.

14- Convergent Transcriptional Programs Regulate cAMP Levels in *C. elegans* GABAergic Motor Neurons. *Developmental Cell*, 2017. Yu B, Wang X, Wei S, Fu T, Dzakah EE, **Waqas A**, Walthall WW, Shan G.

15- Uptake and Reaction of *C. elegans* to Environmental RNAs. Springer International Publishing Switzerland 2016. **Waqas A**. And Shan G.

16- Mutations in the Genes for Thyroglobulin and Thyroid Peroxidase Cause Thyroid Dysmorphogenesis and Autosomal Recessive Intellectual Disability. *Journal of Human Genetics*, 2016. Mittal K, Rafiq MA, Rafiullah R, Harripaul R, Ali H, Ayaz M, Aslam M, Naeem F, Amin-Ud-Din M, **Waqas A**, So J, Rappold GA, Vincent JB, Ayub M.

17- Novel *VPS13B* Mutations in Three Large Pakistani Cohen Syndrome Families Suggests a Baloch Variant with Autistic- Like Features. *BMC Medical Genetics*, 2015. Rafiq MA, Leblond CS, Saqib MA, Vincent AK, Egger G, Caron C, **Waqas A**, Vincent JB, Xiong L.

18- Intratracheally instilled PM2.5 significantly altered the structure and composition of indigenous murine gut microbiota. **Ecotoxicology and Environmental Safety**, 2021. Ying Liu; Tong Wang; Bo Si, Hua Du, Yun Liu, **Waqas A**, Shengwei Huang, Guoping Zhao, Shaopeng Chen, An Xu.

19- Aging-independent and size-dependent genotoxic response induced by titanium dioxide nanoparticles in mammalian cells. *Journal of Environmental Sciences*. 2019. Wang J, Wang J, Liu Y, Nie Y, Si B, Wang T, **Waqas A**, Zhao G, Wang M and Xu A.

TECHNIQUAL

SKILLS

Ability to innovate, display initiative and analyse complex information

Well-developed planning, communication and management skills

Prioritize tasks and work in a team

Excellent manuscript drafting, revisions and publication skills

Support in generating grant applications

Conference/ Workshops

Zoological Congress held in Muzaffarabad, Azad Jammu and

Kashmir, [Pakistan, 2011](#)

Trends in Biochemistry Conference, Quaid-i-Azam University,
[Islamabad, Pakistan, 2012](#)

Training workshop on Modern Research Techniques in Ecology, (specially training on “R” software) [Islamabad, Pakistan, 2012](#)

Participated in Asia Pacific C. elegans meeting held in Beijing, [China,2016.](#)

Participated in Chinese C. elegans meeting held in Kunming, [China,2018.](#)

Participated in International Conference on Magneto Sciences held in Hefei, [China,2019](#)
