



PERSONAL

Dr. AHMED WAQAS

INFORMATION

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Department of Zoology, Division of Science and Technology,
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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- Clinical and molecular delineation of PUS3-associated neurodevelopmental disorders. **Clinical Genetics**, 2021. Miriam Nøstvik, Sarah M Kateta, Bitten Schönewolf-Greulich, Alexandra Afenjar, Magalie Barth.....Ahmed Waqas, Alban Ziegler, Renzo Guerrini, Rikke S Møller, Zeynep Tümer.

2- 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.....Ahmed Waqas; Misbahuddin Rafeeq; Majid Alfadhel.

3- 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,

Ahmed Waqas*, Muhammad Umair*.

- 4- Biallelic Variant in the tRNA methyltransferase domain of the AlkB Homolog 8 causes Syndromic Intellectual Disability. Ahmed Waqas *, Safdar Abbas, Anam Nayab, Ranjha Khan, Shabnam Shaheen, Misbahuddin M Rafeeq, Ziaullah M Sain, Muhammad Umair. (submitted)
- 5- 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.
- 6- 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.
- 7- 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.
- 8- Uptake and Reaction of *C. elegans* to Environmental RNAs. Springer International Publishing Switzerland 2016. **Waqas A**. And Shan G.
- 9- Mutations in the Genes for Thyroglobulin and Thyroid Peroxidase Cause Thyroid Dyshormonogenesis 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.
- 10- 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.
- 11- 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; **Ahmed Waqas**; Shengwei Huang; Guoping Zhao; Shaopeng Chen; An Xu.
- 12- 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](#)
