MUHAMMAD KHISROON, Ph.D., Post Doc

(Associate professor& HEC Approved Ph.D. Supervisor)

Personal Information



Date of Birth: 15.01.1974

Domicile: District Bannu, Khyber Pakhtunkhwa, Pakistan

Email address: [m\_khisroon@uop.edu.pk](mailto:m_khisroon@uop.edu.pk)

Nationality Pakistani

Passport No:

N.I.C number: 11101-1478641-3

Mobile#:+923339640290

Current Affiliation: Department of Zoology, University of Peshawar, Khyber Pakhtunkhwa

Summary

I have joined department of Zoology as lecturer in 2001. After successfully qualified the international GRE in biology, I have been awarded foreign Ph. D scholarship from ministry of science and technology and completed Ph. D from university of Sheffield, England in 2007. I have also successful completed one year HEC Post-doctoral studies from University of California Davis USA in 2013.

My Ph.D. research is based on how the DNA damage is repaired during meiosis cell division. My research here is focused on the genotoxicology, a study of DNA damage both in human and animals by various agents (chemical, radiation, environmental pollution, heavy metals accumulation etc.). We are using the comet assay, micro nucleus assay to visualize the damaged DNA in side the cell. We have also designed a novel protocol involving Western blotting to quantify extent of DNA damage inside cell. We are also working on the DNA repair, metabolite genes and their association with DNA damage and cancer. I have supervised 30 MSc, BS thesis, 28 MPhil thesis and 5 Ph.D. thesis. We have published our research work in the impact factor journals of UK, USA, Japan etc.

Professional Training and Education

2012-2013 Post Doc Neil Hunter lab, University of California Davis USA.

2003-2007 Ph.D. University of Sheffield

2001- 2002 M.Phil. (course work) IBGE , Agriculture University Peshawar

2000-2001 M.Ed. University of Peshawar

1999-2000 B.Ed. University of Peshawar

1996-1997 M.Sc. Zoology University of Peshawar

1994-1995 B.Sc Biology Gomal University D.I.Khan

Chronological List of Positions/Work Experience

1. Associate Professor, Department of Zoology, University of peshawar 2018 till date
2. Assistant Professor, Department of Zoology , University of peshawar, 2009-2018
3. Lecturer , Department of Zoology, University of Peshawar, 2001- 2009

1. Lecturer, Department of Zoology, Islamia College Peshawar 1998- 2001

Courses Taught

Advanced Molecular Biology, Cell Biology, Cancer Biology, Comparative animal physiology, Biology of Stem cell, Developmental Biology, Principle of Systematics, Molecular Endocrinology, Research Methodology, Biological Techniques. Classical and Molecular genetics.

Technical Expertise

*   Bright field and fluorescent microscopy
*   Immunocytochemistry
*   Immunohistochemistry and immune-fluorescence
*   PCR and Real time PCR
*  Western blotting
* Southern Blotting
*  Electrophoresis
*  Cell and Gene cloning
*  2-D gel electrophoresis
*   Gene transfection &transformation

 Comet assay

Yeast culture and Yeast genetics

Protein expression and Purification

Site directed mutagenesis

Ultracentrifiugation

**INTERVIEWS as Expert**

Worked as advisor in Selection Board, KP Public Service Commission, Fedral public service commission , Kohat University of Science and technology, Islamia Collage University, University of Swat, University of Chitral , University of Malakand for the selection of lecturers and Assistant professor in Zoology.

CONFERENCES / WORKSHOPS ATTENDED

British Yeast Conferences, 2004 and 2006

Pakistan Zoological congress 2002,

2011,

2012

2014

Poster presented in Japan cancer society conference 2017

Publications

**1.**Yaroslav Terentyev, Rebecca Johnson, Matthew J. Neale, **Muhammad Khisroon,** Anna Bishop-Bailey and Alastair S. H. Goldman.(2010). Evidence that MEK1 positively promotes interhomologue double-strand break repair , Nucl. Acids Res. 38 (13): 4349-4360.

**I.F (19.6) HJRS category W**

**2**.Zakiullah, Saeed M, Ali S, Javed N, Khisroon M, Muhammad B, Khuda F, Ahmad S, Ismail M (2014). [Genetic susceptibility to esophageal cancer due to CYP1A1 gene variant rs4646903 in tobacco addicted patients of Pashtun ethnicity: a case control study in Khyber Pakhtunkhwa province of Pakistan.](https://www.ncbi.nlm.nih.gov/pubmed/25169514) Asian Pac J Cancer Prev. 2014;15(16):6715-20.

**I.F (2.5) HJRS category W**

**3**.Zakiullah, Ahmadullah, Khisroon M, Saeed M, Khan A, Khuda F, Ali S, Javed N, Ovais M, Masood N, Khalil NK, Ismail M( 2015). [Genetic susceptibility to oral cancer due to combined effects of GSTT1, GSTM1 and CYP1A1 gene variants in tobacco addicted patients of Pashtun ethnicity of Khyber Pakhtunkhwa province of Pakistan.](https://www.ncbi.nlm.nih.gov/pubmed/25735346) Asian Pac J Cancer Prev. 2015;16(3):1145-50.

**I.F (2.5) HJRS category W**

**4**. **Khisroon M**, Khan A, Naseem M, Ali N, Khan S, Rasheed SB (2015).

Evaluation of DNA damage in lymphocytes of radiology personnel by comet assay. J Occup Health. 2015;57(3).

**I.F (2.8) HJRS category X**

**5**. **Khisroon M**, Gul A, Khan A, Ali N, Zaidi F, Rasheed SB, Ahmadullah, Akbar H (2015). Comet assay based DNA evaluation of fuel filling stations and automobile workshops workers from Khyber Pakhtunkhwa province, Pakistan. J Occup Med Toxicol.

**I.F (2.8) HJRS category W**

**6**. Ali RH, Mahmood S, Raza SI, Aziz A, Irfanullah, Naqvi SK, Wasif N, Ansar M, Ahmad W, Shah SH, Khan BT, Zaman Q, Gul A, Wali A, Ali G, Khan S, **Khisroon M**, Basit S.(2015). Genetic analysis of Xp22.3 micro-deletions in seventeen families segregating isolated form of X-linked ichthyosis. J Dermatol Sci. 2015 (3):214-7

**I.F (5.4) HJRS category W**

**7.** Ali N, Ullah A, Wahid S, Khisroon M, Rasheed SB( 2015). Distribution, species composition and relative abundances of sandflies in North Waziristan Agency, Pakistan. Med Vet Entomol; 2015 30(1):89-94

**I.F ( 1.9 ) HJRS category W**

**8.** Siraj M, **Khisroon M**, Khan A ( 2015). [Bioaccumulation of Heavy Metals in Different Organs of Wallago attu from River Kabul Khyber Pakhtunkhwa, Pakistan.](https://www.ncbi.nlm.nih.gov/pubmed/26637495) Biol Trace Elem Res. 2016 ,172(1):242-50.

**I.F (4.08) HJRS category W**

**9.** Zaidi F, Fatima SH, **Khisroon M**, Gul A (2016). Distribution Modeling of three screwworm species in the ecologically diverse landscape of North West Pakistan. Acta Trop.

**I.F 2.7 HJRS category W**

**10**. Zaidi F, Ali N, **Khisroon M**. Urinogenital Myiasis From Blow Fly in a Pakistani Child. J Coll Physicians Surg Pak. 26: 535-536 .

**I.F (0.3) HJRS category X**

**11.** Muhammad Khisroon, Ajmal Khan, Muhammad Imran, Farrah Zaidi, Ahmadullah & Syeda Hira Fatim(2017). Archives of Environmental & Occupational Health,162:56-56.

I. **F (1.8 ) HJRS category X**

**12.** Akbar H, Khan A, Mohammadzai I, Khisroon M, Begum I.(2017). The genotoxic effect of oxcarbazepine on mice blood lymphocytes. Drug Chem Toxicol. 15:1-6.

**I.F ( 2.5 ) HJRS category W**

**13**. Zaidi F, Fatima SH, Jan T, Fatima M, Ali A, **Khisroon M,** Adnan M, Rasheed SB (2017). Trop Med Int Health. 2017, 22(9):1130-1140

**I.F (2.8 ) HJRS category W**

**14.** Siraj M, Khisroon M, Khan A, Zaidi F, Ullah A, Rahman G. (2018). Bull Environ Contam Toxicol. 2018 73(3):115-120-

**I. F (2.7) HJRS category W**

**15.** Muhammad Iftikhar Khan, **Muhammad Khisroon,** Ajmal Khan, Naila Gulfam, Muhammad Siraj, Farrah Zaidi, Ahmad ullah, Abid ullah, Syeda Hira Fatma, Shumaila Noreen, Hamid ullah, Zafar Ali Shah and Fazli Qadir (2018). Bioaccumulation of Heavy Metals in Water, Sediments, Tissues and their Histopathological Effects on the Anodonta cygnea (Linea, 1876) in River Kabul, Khyber Pakhtunkhwa Pakistan Biomed Research International.

**I.F (2.5 ) HJRS category W**

**16.** Fatima SH, Zaidi F, Adnan M, Ali A, Jamal Q, **Khisroon M** ( 2018). Environ Monit Assess. 2018 Mar 19;190(4):233 6605-7.

**I.F 2.8 HJRS category W**

17. Naila Gulfam, **Muhammad Khisroon**, Muhammad Zahoor, Farhat Ali Khan (2018). Development of highly porous carbon nanocomposites derived from coconut shell and its in vitro efficacy of ochratoxin A detoxification , 105, 216-225.

**I.F 2.7 HJRS category X**

**18.** Hira FS, Asad A, Farrah Z, Basit RS, Mehreen F, **Muhammad Khisroon** (2018). Patterns of occurrence of dengue and chikungunya, and spatial distribution of mosquito vector Aedes albopictus in Swabi district, Pakistan. Trop Med Int Health.13125.

**I.F (2.7 ) HJRS category W**

**19**. **Muhammad Khisroon**, Ajmal Khan, Ubaidullah, Farrah Zaidi, Ahmadullah (2018). Bio-monitoring of DNA damage in matchstick industry workers from Peshawar Khyber Pakhtunkhwa, Pakistan. International Journal of occupational and Environmental health 2018 v1.

**I.F 1.1** **HJRS category W**

20. Khan MI, Zahoor M, Khan A, Gulfam N, **Khisroon M.** (2018) Bioaccumulation of Heavy Metalsand their Genotoxic Effect on Freshwater Mussel. Bull Environ ContamToxicol. 2(1):52-58

**I.F (2.8 ) HJRS category X**

21. Naila Gulfam, **Muhammad Khisroon**, Muhammad Zahoor, and Farhat Ali Khan( 2018) In vivo detoxification of ochratoxin A by highly porous magnetic nanocomposites prepared from coconut Shell.RevistaBrasileira de CiênciaAvícola 20(4):675-698.

**I.F (1.1) HJRS category W**

22. 23 Saleha Gul, **Muhammad Khisroon** , Ajmal Khan, Attaullah, Saira Gul and Gul Nabi Khan(2019). Assessment of **Genotoxicity** in Lymphocytes of Active and Passive Cigarette Smokers Attenuated with Green Tea. Pakistan J. Zool.51(3): 1131-1136

**I.F ( 0.7) HJRS category X**

23. Muhammad Zahoor , NailaGulfam, **Muhammad Khisroon**, and Farhat Ali Khan (2019). Removal of Ochratoxin A from water by novel adsorbent; magnetic carbon nanocomposites prepared from sugar beet wastes. Desalination and Water Treatment 152 (1): 234–241.

**I.F (1.6) HJRS category X**

24. 25. Muhammad Zahoor, Naila Gulfam, **Muhammad Khisroon**, Farhat Ali Khan.( 2019). The in vivo efficacy of highly porous carbon nanocomposites prepared from sugar beet waste for the Ochratoxin A detoxification22(6):

**I.F (0.4) HJRS category W**

25. Nazish Shah, Ahsan Khan, Riaz Ali, Kasi Marimuthu, Khaliq Ur Rahman, Mukhtar Alam, Muhammad Adnan, Muhammad., Shahibzada Muhammad Jawad, **Muhammad Khisroon**, Muhammad Nazir Uddin, Muhammad Rizwan, and Saddam Hussain (2019).

Bioaccumulation and Alteration in Hematological Indices, Red Blood Cell and Nucleus Morphology and Gills and Muscles Tissues of Grass Carp Against Heavy Metals: An Experimental Approach. Biomed research international

**I.F (2.5) HJRS category W**

26. Nazish shah, **Muhammad khisroon**, Nazma Habib Khan (2020)

Genotoxic Consequences in Common Grass Carp (*Ctenopharyngodon idella Valenciennes, 1844*) Exposed to Selected Toxic Metals. Biological Trace Element Research 199:305–314

**I.F (4.08) HJRS category W**

27. Suileman, Muhammad zahoor, Ajmal khan, Naila gulfam, **Muhammad khisroon** (2020)

Toxicity evaluation of pesticide chlorpyrifos in male Japanese quails (*Coturnix japonica*).

Environmental Science and Pollution Research volume 27 :25353–25362

**I.F (5.6 ) HJRS category W**

28. Rafaqat Masroor, **Muhammad khisroon**, Daniel Jablonski (2020)

A case study on illegal reptile poaching from Balochistan, Pakistan. Herpetozoa, 33:67-75.

**I.F (1.6) HJRS category X**

29. Rafaqat Masroor, **Muhammad khisroon** , Muazzam Ali Khan Daniel Jablonski (2020). A new species of Microgecko Nikolsky, 1907 (Squamata: Gekkonidae) from Pakistan

**I .F (1.09) HJRS category X**

30. Rafaqat Masroor, **Muhammad khisroo**n , , Muazzam Ali Khan Daniel Jablonski (2020)

A new species of Eremias (Squamata: Lacertidae) from the arid mountains of Pakistan,.Zootaxa

**I.F (1.09 ) HJRS category X**

31. Hammad Ahmad , Asad Ali1, Syeda Hira Fatima, Farrah Zaidi4, **Muhammad Khisroon**, Syed Basit Rasheed4 • Ihsan Ullah, aleem Ullah, Muhammad Shakir .( 2020)

Spatial modeling of Dengue prevalence and kriging prediction of Dengue outbreak in Khyber Pakhtunkhwa (Pakistan) using presence only data. Stochastic Environmental Research and Risk Assessment. 34:1023–1036

**I.F (3.8 ) HJRS category W**

32. Nazish shah, **Muhammad Khisroon** , Syed Sajjad ali Shah.

Assessment of copper, chromium, and lead toxicity in fish (Ctenopharyngodon idella Valenciennes, 1844) through hematological biomarkers Environmental Science and Pollution

Research. 27:33259–33269.

**I.F (5.8 ) HJRS category W**

33. **Muhammad Khisroon** Ajmal Khana, Asma Ayuba, Ihsan Ullah Javeed Farooqia , Abid Ullaha. DNA damage analysis concerning GSTM1 and GSTT1 gene polymorphism in gold jewelry workers from Peshawar Pakistan. Biomarkers, 25(6): 483–489

**I.F (2.6) HJRS category W**

35. **Muhammad Khisroon**, Ajmal Khan , Ashraf Ali Shah, Ihsan Ullah, Javeed Farooqi, Abid Ullah( 2020) .Scalp Hair Metal Analysis Concerning DNA Damage in Welders of Peshawar Khyber Pakhtunkhwa Pakistan. Biological Trace Element Research. 199(5):1649-1656.

**I.F (4.08) HJRS category W**

**36**. **Muhammad Khisroon**, Maleeha humayun, Ajmal khan, Humayun, Jamal khan (2020)

Polymorphism in GSTM1 and GSTT1 genes influence DNA damage in personnel occupationally exposed to volatile anaesthetics (VA), from Peshawar, Pakistan. Occupational and Environmental medicine. 62(9):527-530.

**I.F ( 4.9) HJRS category W**

**37.** **Muhammad Khisroon**, Ajmal Khan, Nazia Hassan, Farrah Zaidi Javeed Farooqi(2020)

Biomonitoring of DNA Damage in Photocopiers Workers from Peshawar Khyber Pakhtunkhwa Pakistan. Journal of Occupational and Environmental Medicine. 62(9):527-530.

**I.F (3.2) HJRS category W**

**38.** Nazish Shah, **Muhammad Khisroon**, Syed Sajjad Ali Shah.(2020)

Metals distribution, histopathological alterations and health risk assessment in muscle and gill tissues of fish (Ctenopharyngodon idella). Biological Trace Element Research.

I**.F ( 4.08) HJRS category W**

**39.** **Muhammad khisroon**, Nazia hassan , Ajmal Khan , Javed Farooq i.(2021)

Assessment of DNA damage induced by endosulfan in Grass carp (Ctenopharyngodon idella Valenciennes, 1844).Environmental science and pollution research. 28(12):15551-15555

**I.F (5.8) HJRS category W**

**40**. R Masroor, M Idrees, **M Khisroon**, Q Jamal, D Jablonsk (2021). Out of the blue: The first record of the genus Heremites Gray, 1845 (Squamata, Scincidae) from Pakistan, Zookeys

**I.F (1.4) HJRS category W**

**41.** R Masroor, MA Khan, MS Nadeem, SA Amir, **M Khisroon,** D Jab (2022). Appearances often deceive in racerunners: integrative approach reveals two new species of Eremias (Squamata: Lacertidae) from Pakistan. Zootaxa 5175 (1), 55-87

**1.F (1.09) HJRS category X**

**42**. A Khan, F Jahan, M Zahoor, R Ullah, GM Albadrani, HRH Mohamed, **M Khisroon** (2022). Association of genetic polymorphism of glutathione S-transferases with colorectal cancer susceptibility in snuff (Naswar) addicts. Brazilian Journal of Biology.

**I.F (1.5 ) HJRS category X**

**43**.Sardar Khan, Zahir Qamar,  Ajmal Khan ,  Muhammad Waqas  Javed Nawab, **Muhmmmad Khisroon**, Ajmal Khan (2023). Genotoxic effects of polycyclic aromatic hydrocarbons (PAHs) present in vehicle-wash wastewater on grass carp (*Ctenopharyngodon idella)* and freshwater mussels (Anodonta cygnea). Pollution research , 327, 21513

**I.F( 9.9) HJRS category W**

**44.** Ajmal khan, Maghfoor Khan, Nazish Shah, Mansoor Khan, Abidullah Dawar, Ashraf Ali Shah, Farmanullah Dawar**, Muhammad Khisroon** 2023). Genotoxicity of Copper, Silver and Green Synthetic Gold Nanoparticles in fish (*Ctenopharyngodon idella*). Biological trace element research.

**I.F (4.08) HJRS category W**

**Ph.D. Students supervised**

|  |  |  |  |
| --- | --- | --- | --- |
| S.No | Name | Thesis title | Session |
| 1. | Muhammad Siraj | Evaluation of Heavy Metals Toxicity in Selected Fish Species of River Kabul (2010) | 2010-2014 |
| 2. | Naila Gulfam | Development and Characterization of Highly Porous Carbon Based Poultry Khisroon Feed Detoxifier to Ameliorate theToxic Effects of Ochratoxin-A in *Gallus domesticus* . | 2013-2017 |
| 3. | Muhammad Iftikhar  Khan | Freshwater Mussel (*Anodonta cygnea*) As a Bioindicator Monitoring of Pollution Status in River Kabul, Pakistan | 2011-2015 |
| 4. | Raffaqat Masroor | Distribution, Ecology and Systematics of Amphibians and  Reptiles of Southern Baluchistan,Pakistan. | 2011-2015 |
| 5. | Nazish shah | Biomonitoring effects and dynamics selected potencially Toxic Metals Biology in Grass Carp (*Ctenopharyngodon Idella).* | 2014-2018 |
| 6. | Ajmal khan | Genetic Polymorphisms in metabolic Detoxifying and DNAMedical Related Repair Genes and its correlationS ubjects with Bladder, Colorectal andProstate Cancers among Tobaccoaddicts in Khyber Pakhtunkhwa,Pakistan. | 2013-2017 |
| 7. | Abidullah | Evaluation Of Genotoxic And Genoprotective Effects Of Acmophylline-A, Salicyloylsalicin, Ferruginan And Cycloolovil | 2014-2018 |

**M.Phil, student Supervised**

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| --- | --- | --- | --- |
| 1 | Majid khan | Mutation Screening of Congenital General Skin Disorders from District Dir | 2011-2012 |
| 2 | Ahmadullah | Diagnostic Quality Assessment of Parasitology Malaria in Private Clinical Laboratories of North Waziristan | 2011-2012 |
| 3 | Ajmal Khan | Assessment of Genotoxicity due to Smokeless Tobacco Product (Naswar) in Its Addicts by Alkaline  Comet Assay (2013) | 2011-2013 |
| 4 | Maryam Naseem | Assessment of DNA Damage in General Radiology Personnel Using Comet Assay | 2011-2013 |
| 5 | Ayesha Gul | Assessment of DNA Damage in General Persons working in CNG/Fuel Filling Stations and Automobile WorkshopsUsing Comet Assay | 2011-2013 |
| 6 | Ubaidullah | DNA Damage Assessment in Ubaidullah General Matchsticks Factory Workers. | 2009-2010 |
| 7 | Javed Farooqi | Systematics and Distribution of General Lizards Laudakia and Paralaudakia (Reptilia: Agamidae) | 2013-2014 |
| 8 | Bakhtarin khan | Genetic Mapping of Genes Involved  Inhiereted Ichthyosis in Selected Families from District Buner | 2012-2013 |
| 9 | Qaisar Zaman |  |  |
| 10 | Noor ul Huda | Evaluation of Genotoxicity in Noor ul Huda Individuals Exposed to Biomass in Khyber Pakhtunkhwa,Pakistan | 2014-2015 |
| 11 | Aleena | Assessment Of DNA Damage Using Alkaline Comet Assay In Occupationally Exposed Painters Of Peshawar | 2013-2014 |
| 12 | Muhammad Imran | Evaluation of Genotoxicity in Noor ul Huda Individuals Exposed to Biomass Fuel Smoke in Khyber Pakhtunkhwa, Pakistan | 2014-2015 |
| 13 | Sulaiman | Toxicity Evaluation of Chlorpyrifos in General Male Japanese Quails *(Coturnix Japonica)* | 2013-2014 |
| 14 | Haleema | Assessment of Genoprotective and Genotoxic Effect of extract of Senna Artemisioidas. | 2013-2014 |
| 15 | Saliha Gul | Assessment of Genotoxicity due to Cigarette Smoke in Active and Passive Smokers by Alkaline Comet Assay. | 2013-2014 |
| 16 | Jameel khan | Parasitological and Genotoxic Assessment of Drinking Water of DPs Camps in District Bannu, Khyber Pakhtunkhwa | 2014-2015 |
| 17 | Nasir khabeer | Evaluation of DNA Damage and General Health Status of Snuff Factory Workers. | 2014-2015 |
| 18 | Ruhama Taj | Evaluation Of DNA Damage With Reference To GTT1 and GSTM1 Null Mutations In Sanitary Workers Of Peshawar | 2015-2016 |
| 19 | Summaya marwat | Association Of GSM1 And GSTT1 Null Mutations With DNA Damage In Occupationally Exposed Car washers Of Peshawar | 2015-2016 |
| 20 | Gulnazamina | Association Of Heavy Metals, GSTM1 & GSTt11 Gene Mutation With Male Sex Hormones Level In Snuff Factory Workers In Bannu, Khyber Pakhtunkhwa | 2015-2016 |
| 21 | Nazia Hassan | Assosiation Of GSM1 And GSTT1 Gene Deletions With DNA Damage In Indviduals Working With Photocopier Machines. | 2016-2017 |
| 22 | Ashraf Ali shah | Association of Heavy Metals with DNA Damage in Occupationally Exposed Welders of District Peshawar, Khyber Pakhtunkhwa, Pakistan | 2016-2017 |
| 23 | Asma Ayub | Association Of GTT1 And GSTM1 Polymorphism With DNA Damage In Gold Refiner Workers. From Peshawar Kyber Pakhtunkhwa. | 2016-2017 |
| 24 | Maleeha Humayun | Association Of GSTM1 And GSTT1 Null Mutations With DNA Damage In Individuals Occupationally Exposed To Anesthetic Gases | 2016-2017 |
| 25 | Tanzeela | Evaluation Of Genotoxic Effect Of Homeopathic Medicines (Lycopdium Clavatium And Nux Vomica) On Human Lymphocytes And Balb-C Mice | 2016-2017 |
| 26 | Ziaullah Khan | Reproductive Hormone And Antioxidant Enzyme Status Of Pesticides Exposed Workers Of District Bannu. | 2017-2018 |
| 27 | Maghfoor | Assessment Of DNA Damage Of Grass Carp Exposed To Oxide, Non Oxide And Green Nano Particles. | 2017-2018 |
| 28 | Israil | DNA Damage Protection Analysis Of Ethyl Gallate By Comet Assay | 2014-2015 |
| 29 | Roozee | Risk Factors and Association Of GlUT4 Gene (Rs5435) Polymorphism With Type 2 Diabetes Mellitus In District Charsadda, Pakistan | 2018-2019 |
| 30 | Naila | DNA Damage Analysis With Respect To XPD Gene Polymorphism In Polyvinyle Pipe Industry Workers In Peshawar, Pakistan | 2018-2019 |
| 31 | Nazia | Conservational Status and Identification Of Intestinal Parasites In Markhor Of Chitral Gol National Park | 2018-2019 |
| 32 | Omar Hayat | Assessment Of In-vitro And In-vivo Genotoxic Effect Of Selected Food Dyes | 2018-2019 |
| 33 | Shakir ullah | DNA Damage and Effect Of Cadmium Sulfide Nanoparticle On Female Reproductive System Of Mice | 2018-2019 |
| 34 | Mehran Khan | BoLA-DRB3 Gene Polymorphism In Association With Resistance Or Susceptibility To Bovine Leukemia Virus Infection In Achai Cattle | 2019-2020 |
| 35 | Amir Bilal | Assessment Of The Effect Of Phenol On The Dna And Plasma Proteins In Grass Carp (*Ctenopharyngodon idella*) | 2020-2021 |
| 36 | Javeria khalid | Behavioral, Biochemical, Haematological And Genotoxic Impacts Of Dichlorvos On The Grass Carp (Ctenopharyngodon Idella, Valenciennes 1844). | 2021-2022 |
| 38 | Nadia Shaheen | Assessment Of Irak1 Gene Polymorphism, DNA Damage And Selected Heavy Metals In Rheumatoid Arthritis Patients From Peshawar, Pakistan | 2021-2022 |
| 39 | Aqsa Gul | Evaluation Of Kiss1 Gene Polymorphism, Selected Heavy Metals, And DNA Damage In Polycystic Ovary Syndrom | 2021-2022 |
| 40 | Rabia shuja | Assessment of DNA damage selected heavy metals, and ACE gene polymorphism in Hypertension patients from Peshawar, Pakistan. | 2021-2022 |

**M.Phil. student as Co.Supervision**

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| --- | --- | --- | --- |
| 1. | Abidullah |  |  |
| 2. | Huma |  |  |
| 3 | Muhammad Zahid |  |  |

**M.Sc. student supervision**

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| --- | --- | --- | --- |
|  |  |  |  |
| 1 | Samreen Falah | Assessment of water and soil genotoxicity in two localities of District Swabi & Mardan on Molluscs Hemolymph by Comet assay (2010- | 2009-2010 |
| 2 | Sajjad | Assessment of genotoxicity of Sajjad Dr. Muhammad Fisheries copper sulfate on fish (Ctenophryngdodon idella) By Comet assay | 2009-2010 |
| 3 | Abdul Haq | Bio monitoring of DNA Damage in General Farm Workers occupationally exposed to Peshticide, from Peshawar, Khyber Pakhtunkhwa. | (2013-14) |
| 4 | Hina Bahar | DNA damage assessment of snuffers by the comet assay | 2009-10 |
| 5 | Itrat Sabeen | DNA Damage assessment of cigarette smokers by the comet assay | 2009-10 |
| 6 | Nazia Hassan | Genotoxic assessment of Endosulfan on fish grass carp by Comet and Micronucleus Assay Techniques. | 2013-14 |
| 7 | Uzma shah | Assessment of DNA Damage by General Comet Assay in patients with essential Hypertension. (2016-17) | 2016-17 |
| 8 | Yusra Ilyas | Evaluation of DNA Damage in General patients with Type2 Diabetes Mellitus by Comet Assay. | 2016-2017 |
| 9 | Shela Hassan | Assessment of Genotoxic effect of Levofloxacin with pyridine-2,6 related subject diacarboxylic acid on grass carp  (*Ctenopharayngodon idella*) blood via comet and micronucleus Assays. | 2016-2017 |
| 10 | Irum Ayaz | Protein analysis of commercial UHT General Milk through SDS PAGE Technique. | 2017-2018 |
| 11 | Saba Shah | Protein analysis in Fresh Milk through SDS PAGE Technique. | 2017-2018 |
| 12 | Umar zeb | Anti Bacterial activity of Silver Nano Particles (AgNPs) against *Streptococcus pyogene*s. | 2017-2018 |
| 13 | Mujeebullah | Prevalence of AZFc Y-chromosome General micro deletion SY254 in the sterile population of Khyber Pakhtunkhwa. | 2013-2015 |
| 14 | Irafanullah | Evaluation of AZFb Y-chromosome micro deletion SY127 as a genetic factor in the infertile male subjects of Khyber Pakhtunkhwa. | 2013-2014 |
| 15. | Aimon Quershi | Anti Bacterial activity of Silver Nano Parasitology Particles (AgNPs) against *Staphylococcus aurius.* | 2013-2014 |
| 16. | Mishkat Ullah | Prevalence of AZFc Y-chromosome micro deletion BPY1 209 in infertile male subjects of Khyber  Pakhtunkhwa. | 2013-2014 |
| 17. | Zainab Shah | Evaluation of DNA Damage in Human Lymphocytes induced by different quantities of Silver Nano Particles  having some concentration. | 2014-2015 |
| 18 | Saima Ikram | Nested PCR based prevalence of Malaria in different areas of Mirpur. | 2011-2012 |
| 19 | Bushra Hussain | Assessment of Genotoxic effect of Ciprofloxacin with pyridine-2,6 related subjectdiacarboxylic acid on grass carp blood via comet and micronucleus Assays. | 2020-2021 |
| 20 | Nazia Sultan | Assessment of Plasma Protein Fisheries Profile changes in fish due to Endosulfan by Poly Acrylamide Gel  Electrophoresis Techniques. | 2015-2106 |
| 21 | Muhammad Kashif | Prevalence of AZFa Y-chromosome General micro deletion SY84 as a genetic factor in the infertile male subjects of Khyber Pakhtunkhwa. | 2013-2014 |
| 22 | Muhammad Hanif Sani | Prevalence of AZFb Y-chromosome General micro deletion RBM1 800 in infertile male subjects of Khyber Pakhtunkhwa. | 2013-2014 |
| 23 | Ashraf Ali Shah | Prevalence of AZFa Y-chromosome micro deletion DBY164 in infertile male subjects of Khyber Pakhtunkhwa. | 2013-2014 |
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B.S. Students supervised

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| --- | --- | --- | --- |
| 1 | Javeria Baseer | Correlation of Nul Mutation in Glutathione S-Transferase M4 gene (GSTT1) on onset of Breast Cancer. | 2012-2016 |
| 2 | Sumayya Khattak | Correlation of Null Mutation in Glutathione S-Transferase theta gene (GSTT1) on onset of Breast Cancer. | 2012-2016 |
| 3 | Muhammad Ilyas | Evaluation of Glutathion-S- Transferase GSTT-1 polmorphism frequency in Diabetics patients District Charsadda. | 2013-2017 |
| 4 | Summera *et al.* | The comparison of high and low altitude selected Fishes of KPK, , By Analysing their DNA Subjects Damaging, Water Quality Parameters and Blood Parameters. | 2015-2019 |
| 5 | Shuhab uddin *et al* | Evaluation of DNA Damage in HumanLymphocytes exposed to Azithromycin By Alkaline Comet assay. | 2017-2021 |
| 6 | Fiazan *et al* | Assessment of Genotoxic effect of Levofloxacin with caffeic acid on Grass Carp (C*tenopharyngodon idella*) blood via Comet and Micronucleus Assays. | 2017-2021 |
| 7 | Ahmadullah khan *et al.* | Assessment of Effect of Malathion . Fisheries & on the DNA, Biochemistry and Heamatology in Grass Carp (*Ctempharyngodon idella*) . | 2018-2022 |
| 8 | Muhamamd Irfan *et al.* | valuation of DNA Damage in Human Lymphocytes exposed to Azithromycin and Caffeic Acid By Alkaline Comet Assay. | 2018-2022 |

**REFRENCESES**

Dr. Alastair Goldman

Senior lecturer, MMB

University of Sheffield

Email:a.goldman@brsdford.ac.uk

Prof Peter Sudbery

Professor, MMB

University of Sheffield

Email p.sudbery@sheffield.ac.uk