

Chairperson, Department of Bioinformatics,  
Hazara University Mansehra, Pakistan.  
Ph: +92-3355851620

## DR. FAISAL NOUROZ



**GENDER:** Male  
**MARITAL STATUS:** Married  
**DATE OF BIRTH:** 06-12-1979  
**NATIONALITY:** Pakistani  
**PERMANENT ADDRESS:** Abbottabad, Pakistan  
**LANGUAGES SPOKEN:** English, Urdu, Hindko, Punjabi

### ACADEMIC PROFILE:

DEGREE	YEAR(s)	FIELD OF STUDY / SPECIALIZATION	INSTITUTIONS AND LOCATIONS
<b>Post-Doctoral Experience:</b>	2012	Molecular Cytogenetics & Bioinformatics	Department of Biology/Genetics & Genome Biology, University of Leicester, UK
<b>PhD:</b>	2008-2012	Molecular Cytogenetics & Bioinformatics	Department of Biology/Genetics & Genome Biology, University of Leicester, UK
<b>MPhil:</b>	2002-2004	Botany/Plant Physiology/ Plant Cell & Tissue Culture	Department of Biology, Quaid-i-Azam University, Islamabad Pakistan
<b>Masters:</b>	1999-2001	Botany/Plant Sciences	University of Peshawar, Pakistan
<b>Graduation:</b>	1997-1999	Bio-Chemical Sciences (Botany, Zoology, Chemistry)	University of Peshawar, Pakistan
<b>Intermediate:</b>	1995-1997	Pre- Medical (Botany, Zoology, Chemistry, Physics, English)	B.I.S.E. Abbottabad, Pakistan
<b>Matriculation:</b>	1993-1995	Science (Biology, Chemistry, Physics, Maths, English)	Federal Board of Pakistan

### PROFESSIONAL EXPERIENCE:

Date	Designation and Organization
<b>26-05-2022 - Present:</b>	<b>Chairperson, Department of Bioinformatics, Hazara University Mansehra, Pakistan</b> <ul style="list-style-type: none"><li>➤ Convener, Board of Study; Graduate Research Committee &amp; Others</li><li>➤ Academic Development &amp; Management of the Department</li><li>➤ Academic &amp; administrative supervision of research/teaching of Department</li><li>➤ Developed several Academic &amp; industrial linkages</li><li>➤ Member of various University committees</li><li>➤ Involved in Quality assurance &amp; standards</li><li>➤ Gained experience of external examinations, membership of BOS, Selection Board of other universities, Reviewer of the journals etc</li></ul>
<b>November 11-11-2020 – Present:</b>	<b>Associate Professor, Department of Bioinformatics, Hazara University Mansehra, Pakistan</b> <ul style="list-style-type: none"><li>➤ Academic Development &amp; Management of Department</li><li>➤ Research, Teaching, HRD and Capacity Building</li><li>➤ Research thesis supervision of BS, M.Phil, &amp; PhD scholars</li><li>➤ External Examiner, Subject Expert &amp; Reviewer</li><li>➤ Member of BOS, BoF &amp; Academic Council</li><li>➤ Developed Academic &amp; Industrial linkages</li><li>➤ Gained experience of external examinations, membership of BOS/GRC</li></ul>

<b>26-06-2013 – 25-05-2022:</b>	<b>Head, Department of Bioinformatics, Hazara University Mansehra, Pakistan</b>
<b>17-04-2006 – 11-10-2020:</b>	<b>Teaching/Research experience in Department of Botany, Hazara University Mansehra, Pakistan</b>
	<ul style="list-style-type: none"> <li>➤ Academic Development &amp; Management of Department</li> <li>➤ Academic &amp; administrative supervision of research/teaching of Department</li> <li>➤ Developed several Academic &amp; industrial linkages</li> <li>➤ Member of various University committees</li> <li>➤ Involved in quality assurance &amp; standards</li> </ul>
<b>Additional duties/charges during 2006 – Present</b>	
<b>13-04-2014 - Present:</b>	<b>Director Student Affairs, Hazara University Mansehra, Pakistan</b>
	<ul style="list-style-type: none"> <li>➤ Administrative supervision of societies &amp; clubs</li> <li>➤ Strategic planning, operations of student's affairs</li> <li>➤ Managing student's activities and budgets</li> <li>➤ Developed several organizational linkages</li> <li>➤ Member of various University committees</li> <li>➤ Arranged 1000s of programs, events, conferences &amp; seminars</li> <li>➤ Overseas communications, promotions, and public relations for University</li> <li>➤ Gained experience in event management, memberships of several organizations</li> </ul>
<b>10-2008 – 01-2012:</b>	Teaching/Research experience at Department of Biology, University of Leicester, UK
<b>15-08-2004 – 16-04-2006:</b>	Two years Research experience as Research Officer/Assistant
<b>09-2002 – 08-2004:</b>	Two years M.Phil. Research experience as per HEC letter No. 2-3/HEC/AD(QA)/2007/29. Worked as Research Associate at Plant Cell and Tissue Culture Laboratory Quaid-i-Azam University, Islamabad, Pakistan
<b>10-2003 – 02-2008:</b>	Five years additional experience of Program Presenter at Pakistan Broadcasting Corporation, Islamabad, and Abbottabad Pakistan

#### **OTHER APPOINTMENTS AND MEMBERSHIPS:**

1. Director Student Affairs, Hazara University Mansehra, Pakistan from April 2014 - to present.
2. Member in International Scientific Committee and Editorial Review Board in World Academy of Science, Engineering and Technology from June 2018 – to present.
3. Member in Scientific Committee and Editorial Review Board in KS Global Research Malaysia from January 2016 – to present.
4. Secretary, Food and Market Committee Hazara University Mansehra from August 08, 2016 to present.
5. Convener, Social Work Committee Hazara University Mansehra from June 07, 2016 – to present.
6. Member, Academic Council, Hazara University Mansehra from March, 2016 – March, 2020.
7. Secretary of Board of Study of Department of Bioinformatics, Hazara University Mansehra from August 08, 2014.
8. Member of International Society for Experimental Biology, UK from 2009 - to date.
9. Member of faculty council of Faculty of Biological Sciences, PG representative and Union officer in the Students Union University of Leicester, UK from January 2010 - 2012
10. Ex-Member of Senate of Hazara University Mansehra, Pakistan from 2006 - 2007.
11. General Secretary of “PYAM Anti-Narcotics Society” Abbottabad from April 2004 - 2005.
12. President of “Pakistan Educators Forum Abbottabad” from April 2005 - to date.
13. President of “SPADE Blood Donors” Abbottabad from September 2000 - 2002.

#### **MAJOR AREAS OF INTEREST:**

- ❖ **Bioinformatics/Computational Biology:** Transposons Genomics: Genomics & Proteomics; Nucleic acids & proteins domain organizations; Comparative genomics; Multiple sequence alignments; evolutionary genomics; phylogenetic analysis; Use of various softwares for biological systems analysis; DNA sequencing & analyses.
- ❖ **Molecular/Genome Biology:** Identification & characterization of transposable elements/ jumping genes; Evolutionary impacts on genomes; Genome evolution & diversity; Molecular biology & molecular cytogenetics; Applications of various molecular markers; Florescent *in situ* hybridization; & Crops evolution.
- ❖ **Plant Physiology/Biotechnology:** Plant Cell & Tissue Culture; Phytohormonal applications; Nutrients applications and growth/yield parameters; Plants extracts and their applications.

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## TEACHINGS ASSIGNMENTS:

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| 1). Genome Informatics                | 7). Cell Biology                   |
| 2). Advanced Genomics                 | 8). Molecular Biology              |
| 3). Introduction to Bioinformatics    | 9). Computational Biology          |
| 4). Advanced Bioinformatics           | 10). General Botany                |
| 5). Genomics and Proteomics           | 11). Plant Physiology              |
| 6). Genomics of Transposable Elements | 12). Plant Cell and Tissue Culture |
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## AWARDS/ACHIEVEMENTS:

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1. Received letter of appreciation by Vice Chancellor, Hazara University Mansehra on best performance as Director Student Affairs and Head, Department of Bioinformatics in January 2020.
  2. Received Best Teacher Award on International Teachers Day on October 14, 2019 by Vice Chancellor, Hazara University Mansehra Pakistan.
  3. Awarded by Gold Medal by Hameedia Welfare Organization, Trade Union and Press Club on educational and social services on March 03, 2019.
  4. Awarded as 'Best Head of Department' by SAFE organization in years 2015, 2016, 2017, 2018 & 2019.
  5. Awarded certificate on Best Performance in Research and Education by Hameedia Welfare Society Havelian, Pakistan on May 26, 2017.
  6. Awarded Best Presentation Award in International Conference at Dubai, UAE in 2016.
  7. 'Education Talent Award' presented by Deputy Commissioner Abbottabad on February, 2013.
  8. University of Leicester, UK Scholarship grant for Post Doctorate in March, 2012.
  9. Awarded by Ph.D Scholarship 'Post Quake Development Plan' Hazara University Mansehra, for UK in July, 2007.
  10. 'Best Teacher' award presented by Pakistan Educators Forum Abbottabad in April, 2006.
  11. 'Certificates of Merit' for positions in Interuniversity Hiking/Marathon Competitions from 2002-2004.
  12. '1<sup>st</sup> Prize, awarded by Department of Biological Sciences, Quaid-i-Azam University, Islamabad, Pakistan in Model Competition on Biodiversity Day May 22nd, 2004.
  13. 'Best Student' award presented by Khakhisar Youth Forum, Abbottabad in September, 2002.
  14. 'Best Program Compare' award presented by PYAAM, Abbottabad in July, 2002.
  15. Received awards of 'Best Debater, Speaker, Writer and Compare' of School, College and University.
  16. Awarded Certificate for work with 'Tarbela Watershed Management Project' in March, 1999.
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## RESEARCH COLLABORATIONS

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### International:

1. Prof. Dr. J.S. (Pat) Heslop-Harrison. Molecular Cytogenetics laboratory, Department of Biology, University of Leicester, UK. Email: [pjh4@le.ac.uk](mailto:pjh4@le.ac.uk)
2. Prof. Dr. Mateus Mondin. Principal Investigator, Cytogenetics laboratory, Department of Genetics, University of São Paulo, Brazil. Email: [mmondin@usp.br](mailto:mmondin@usp.br)
3. Prof. Dr. Ishtiaq Qadri. Head Medical Biotechnology, King Abdul Aziz University, Saudi Arabia.
4. Prof. Dr. Xian Hong Ge. National Centre of Oil Crop Improvement (Wuhan), College of Plant Sciences and Technology, Huazhong Agriculture University, Wuhan, China. Email: [gexianhong@mail.hzau.edu.cn](mailto:gexianhong@mail.hzau.edu.cn)
5. Prof. Dr. Mithat Direk. Selçuk University, Agriculture Faculty, Department of Agricultural Economics, Konya, Turkey.
6. Prof. Muhammad Assad Riaz. Department of Physiology, Faculty of Medicine Justus-Liebig-University, Aulweg 129, 35392 Giessen, Germany. [assad\\_riaz2k@yahoo.com](mailto:assad_riaz2k@yahoo.com)
7. Prof. Nessar Ahmed. Centre for Bioscience, Department of Life Sciences, Manchester Metropolitan University, Manchester M1 5GD, United Kingdom. Email: [n.ahmed@mmu.ac.uk](mailto:n.ahmed@mmu.ac.uk)
8. Dr. Maryam Sarwat. Associate Professor, Amity Institute of Pharmacy, Amity University, Noida, Uttar Pradesh, India. Email: [msarwat@amity.edu](mailto:msarwat@amity.edu)
9. Prof. Dr. Masoud Sheidai, Department of Botany, University of Tehran, Iran.
10. Taherah Mohammadabadi. Faculty of Animal Science and Food Technology, Agricultural Sciences and Natural Resources University, Iran. Email: [t.mohammadabadi.t@gmail.com](mailto:t.mohammadabadi.t@gmail.com)

**National:**

1. Prof. Dr. Safia Ahmad. Vice chancellor, Shaheed Benazir Bhutto Women University Peshawar. Email: [safiamrl@yahoo.com](mailto:safiamrl@yahoo.com).
2. Prof. Dr. Azhar Ali Shah. Institute of ICT, University of Sindh, Pakistan. Email: [azhar.shah@usindh.edu.pk](mailto:azhar.shah@usindh.edu.pk).
3. Prof. Dr. Usman Ali Ashfaq. Department of Bioinformatics and Biotechnology, Government College University Faisalabad, Pakistan. Email: [ashfaqua@gcuf.edu.pk](mailto:ashfaqua@gcuf.edu.pk).
4. Prof. Dr. Muhammad Qasim. Department of Bioinformatics and Biotechnology, Government College University Faisalabad, Pakistan. Email: [qasemawan@gmail.com](mailto:qasemawan@gmail.com).
5. Prof. Dr. Azhar Mehmood. Professor/ Chairman. Department of Bioinformatics, Government Post Graduate College Mandian, Abbottabad, Pakistan. Email: [amabbasi71@gmail.com](mailto:amabbasi71@gmail.com).
6. Prof. Dr. Muhammad Ansar. Professor/ Chairman. Department of Biochemistry, Quaid-i-Azam University, Islamabad, Pakistan. Email: [ansar@qau.edu.pk](mailto:ansar@qau.edu.pk).
7. Prof. Dr. Sikandar Azam. Professor/ Chairman. National Centre for Bioinformatics, Quaid-i-Azam University, Islamabad, Pakistan. [ssazam@qau.edu.pk](mailto:ssazam@qau.edu.pk).
8. Prof. Dr. Sajid Rashid. National Centre for Bioinformatics, Quaid-i-Azam University, Islamabad, Pakistan. Email: [sajid@qau.edu.pk](mailto:sajid@qau.edu.pk); [sajidrwp@yahoo.co.uk](mailto:sajidrwp@yahoo.co.uk).
9. Prof. Dr. Shoukat Iqbal Malik. Department of Bioinformatics, Capital University of Science and Technology, Islamabad. Email: [drshaukat@cust.edu.pk](mailto:drshaukat@cust.edu.pk).
10. Dr. Muhammad Ovais Omer. Professor, University of Veterinary and Animal Sciences, Lahore Pakistan. Email: [drovaisomer@uvas.edu.pk](mailto:drovaisomer@uvas.edu.pk).
11. Dr. Muhammad Hidayat Rasool. Professor /Chairman. Department of Microbiology, Government College University Faisalabad, Pakistan. Email: [drmhrasool@gcuf.edu.pk](mailto:drmhrasool@gcuf.edu.pk).
12. Dr. Mushtaq Hussain. Professor/ Principal. Dow College of Biotechnology, Dow University of Health Sciences, Karachi. Email: [mushtaq.hussain@duhs.edu.pk](mailto:mushtaq.hussain@duhs.edu.pk).
13. Dr. Abdul Wadood. Professor/ Chairman. Department of Biochemistry, Abdul Wali Khan University Mardan, Pakistan. Email: [awadood@awkum.edu.pk](mailto:awadood@awkum.edu.pk).
14. Dr. Muhammad Ismail. Director/CSO. Institute of Industrial Control System, KRL Road Rawalpindi, Pakistan. Email: [director@ibge.edu.pk](mailto:director@ibge.edu.pk); [m.ismail02@gmail.com](mailto:m.ismail02@gmail.com).
15. Dr. Muhammad Kamran Azim. Professor/Dean. Department of BioSciences, Muhammad Ali Jinnah University, Karachi, Pakistan. Email: [kamran.azim@iccs.edu](mailto:kamran.azim@iccs.edu).
16. Prof. Dr. Muhammad Iqbal Hussain. Director Plant Cell and Tissue Culture Laboratory, NARC, Park Road Islamabad, Pakistan.
17. Dr. Muhammad Ramzan Khan. Principal Scientific Officer, National Institute for Genomics & Advanced Biotechnology (NIGAB), National Agriculture and Research Center (NARC), Islamabad, Pakistan. Email: [mrkhan@parc.gov.pk](mailto:mrkhan@parc.gov.pk).
18. Dr. Waseem Haider. Associate Professor. Department of BioSciences, COMSATS University Islamabad, Pakistan. Email: [haider.waseem@gmail.com](mailto:haider.waseem@gmail.com).
19. Dr. Muhammad Imtiaz Shafiq. Associate Professor/Director. School of Biochemistry and Biotechnology/& Drug Design, University of the Punjab, Lahore, Pakistan. Email: [imtiaz.ibb@pu.edu.pk](mailto:imtiaz.ibb@pu.edu.pk).
20. Dr. Muhammad Naveed. Associate Professor/Chairman. Department of Biotechnology, University of Central Punjab Lahore, Pakistan. Email: [dr.naveed@ucp.edu.pk](mailto:dr.naveed@ucp.edu.pk).
21. Dr. Tehseen Fatima. Associate Professor, Dow College of Biotechnology, Dow University of Health Sciences. Email: [tehseen.fatima@duhs.edu.pk](mailto:tehseen.fatima@duhs.edu.pk).
22. Dr. Sheeraz Ahmad. Associate Professor, Institute of Biochemistry and Biotechnology, PMAS, Arid Agriculture University Rawalpindi, Pakistan. Email: [dr.sheeraz@uaar.edu.pk](mailto:dr.sheeraz@uaar.edu.pk).
23. Dr. Farhat Amin. Assistant Professor. Department of Bioinformatics, Shaheed Benazir Bhutto Women University Peshawar, Pakistan. Email: [farhat.hamayun@sbbwu.edu.pk](mailto:farhat.hamayun@sbbwu.edu.pk).
24. Dr. Nousheen Bibi. Assistant Professor. Department of Bioinformatics, Shaheed Benazir Bhutto Women University Peshawar, Pakistan. Email: [drnosheenbibi@sbbwu.edu.pk](mailto:drnosheenbibi@sbbwu.edu.pk).
25. Dr. Siddiq Ur Rehman. Assistant Professor. Department of Bioinformatics, Khushal Khan Khattak University Karak, Pakistan. Email: [siddiqur.rahman@kkkuk.edu.pk](mailto:siddiqur.rahman@kkkuk.edu.pk).
26. Dr. Muhammad Athar Abbas, Assistant Professor/SSO, Animal Genomics & Biotechnology, National Agriculture & Research Centre (NARC), Islamabad, Pakistan. Email: [matharabbas@hotmail.com](mailto:matharabbas@hotmail.com).

27. Dr. Saeed Ur Rahman. Assistant Professor. Department of Oral Biology, Institute of Basic Medical Sciences, Khyber Medical University, Peshawar. [saeed.ibms@kmu.edu.pk](mailto:saeed.ibms@kmu.edu.pk).
  28. Dr. Ibrar Ahmed. Assistant Professor. Department of Biochemistry, QAU Islamabad, Pakistan. Current: CEO, Alpha Genomics Private Limited. Email: [ceo@alphagenomics.co](mailto:ceo@alphagenomics.co).
  29. Dr. Shazia Erum. Scientific Research Officer, Plant Genetic Resource Institute, NARC, Park Road Islamabad, Pakistan.
  30. Dr. Darima Habib. Assistant Professor. Department of Botany, Rawalpindi Women University Rawalpindi, Pakistan.
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**LIST OF HEC RECOGNIZED IMPACT FACTOR PAPERS**

No.	Names of Authors	Year	Title of Publication	Name of Journal with ISSN No.	HEC Category	Vol. and Page No.	Impact Factor
1.	Shah, Z.A., <b>Nouroz, F.</b> , Ejaz, S., Tayyeb, A.	2022	An Insight into Role of E2F1 in Breast Cancer Progression, Drug Resistance and Metastasis	Current Molecular Medicine	W	10.2174/1566524022666220308095834	2.2
2.	Saeed, A., Ahmad, B., Majaz, S., <b>Nouroz, F.</b> , Ahmad, A., Xie, Y.	2022	Targeting Omicron and other reported SARS-CoV-2 lineages by Potent inhibitors of Main Protease 3CL Mpro: Molecular Simulation Analysis	Journal of Infection	W	10.1016/j.jinf.2022.02.012	38.6
3.	Shah, Z.A., Yasmin, H., <b>Nouroz, F.</b> , Hussain, M.D., Kazi, M.	2022	In silico view of MTA1 biochemical signatures in breast malignancy for improvement in immunosurveillance	Journal of King Saud University - Science	W	doi.org/10.1016/j.jksus.2022.101843	4.2
4.	Ahmed, B., Khan, S., <b>Nouroz, F.</b> , Farooq, U., Khalid, S.	2021	Exploring multi-target inhibitors using in silico approach targeting cell cycle dysregulator-CDK proteins	Journal of Biomolecular Structure and Dynamics	W	1-15 doi:10.1080/07391102.2021.1918253	3.4
5.	Qasim, M., <b>Nouroz, F.</b> , Shah, S.H., Shoukat, S., Muhammad, S., Zia. M.A., Hussain, I	2021	Protocols optimization for <i>in vitro</i> propagation of <i>Jatropha curcas</i>	Journal of Animal and Plant Sciences	X	31(1):203-212	0.5
6.	<b>Nouroz, F.</b> , Mehboob, M., Mubin, T. and Khan, S.	2021	Exploitation of phytochemicals for <i>in silico</i> antiviral drug designing against Dengue	Pakistan Journal of Botany	X	31(1):309-319	0.8
7.	Zaman, Z., Khan, S., <b>Nouroz, F.</b> , Farooq, U., Urooj, A.	2020	Targeting protein tyrosine phosphatase to unravel possible inhibitors for <i>Streptococcus pneumoniae</i> using molecular docking, molecular dynamics simulations coupled with free energy calculations	Life Sciences	W	264(1),118621	3.7
8.	Bibi, N., Razzaq, S., <b>Nouroz, F.</b> , Amin, F., Shahnaz, A and Kamal, M.A.	2020	Identification of putative multifunctional Drug against anthrax toxins via integrative computational approach	Letters in Drug Design and Discovery	W	17(12): 1516-1530	3.1
9.	Ahmad, A., Majaz, S. and <b>Nouroz, F.</b>	2020	Evolutionary Frequency of the Available Human Coronavirus Genomes	Evolutionary Biology	W	DOI:10.21203/rs.3.rs-30406/v1.	2.5
10.	Rehman, A., Khan, M.F., Bibi, S. Riaz, M and <b>Nouroz, F</b>	2020	Comparative phylogenetic analysis of <i>Schizothorax plagiotomus</i> and <i>Schizothorax esocinus</i> with other members of subfamilies of cyprinidae on the basis of complete mitochondrial genome and 12S, 16S ribosomal RNA from Northern areas of Pakistan	Mitochondrial DNA Part A	X	DOI: 10.1080/24701394.2020.1787397	1.7
11.	Rehman, A., Khan, M.F., Bibi, S. and <b>Nouroz, F</b>	2020	Phylogenetic association of Cyprinid (Schizothorax) inferred from complete mitochondrial genome	Mitochondrial DNA Part B	X	5(3): 3672-3675	0.5

12.	Hamza, M., Ali, A., Khan, S., Ahmed, S., Attique, Z., Rehman, S., Khan, A., Ali, H., Rizwan, M., Munir, A., Khan, A.M., Siddique, F., Mehmood, A., <b>Nouroz, F</b> and Khan, S	2020	nCOV-19 peptides mass fingerprinting identification, binding, and blocking of inhibitors flavonoids and anthraquinone of <i>Moringa oleifera</i> and hydroxychloroquine	Journal of Biomolecular Structure and Dynamics	X	DOI: 10.1080/07391102.2020.1778534	3.3
13.	Abideen Z., Ahmad, A., Mahmood, T., Majaz, S. Noreen, S., and <b>Nouroz, F.</b>	2020	Dynamics and Conformational Propensities of Staphylococcal CntA	Journal of Biomolecular Structure & Dynamics	X	DOI: 10.1080/07391102.2020.1782263	3.3
14.	Bibi, S., Khan, M.F., Rehman, A., Shah, M., <b>Nouroz, F</b> and Nayab, A.	2020	The complete mitochondrial genome of blue pansy, <i>Junonia orithya</i> (Lepidoptera: Nymphalidae: Nymphalinae) from Pakistan	Mitochondrial DNA Part B	X	5(3):2143-2144	0.5
15.	Kazmi, S.S., Ali, W., Bibi, N., <b>Nouroz, F.</b>	2020	A review on Zika virus outbreak, epidemiology, transmission, and infection dynamics	Journal of Biology Research (Thessalon).	X	27: 5.	1.0
16.	Rehman, A., Khan, M.F., Bibi, S. and <b>Nouroz, F.</b>	2020	Comparative phylogeny of ( <i>Schizothorax esocinus</i> ) with reference to 12s and 16s ribosomal RNA from River Swat, Pakistan	Mitochondrial DNA Part A DNA Mapping, Sequencing, and Analysis	X	doi.org/10.1080/24701394.2020.1741561	1.7
17.	Ahmad, A., Majaz, S. and <b>Nouroz, F.</b>	2019	Two-component systems regulate ABC transporters in antimicrobial peptide production, immunity and resistance	Microbiology/ 1350-0872	X	doi.org/10.1099/mic.0.000823	1.8
18.	<b>Nouroz, F.</b> , Mukaramin	2019	Genomic and evolutionary diversity of LTR retrotransposons in date palm ( <i>Phoenix dactylifera</i> )	Pakistan Journal of Botany/ISSN 2070-3368	X	51(5): 1637-1644	0.8
19.	Naveed, M., Tallat, A., Butt, A., Khalid, M., Shehzadi, M., Bashir, N., Malik, K.K-U., Tufail, S., <b>Nouroz, F.</b>	2019	Neuroproteomics in Paving the Pathway for Drug Abuse Research	Current Proteomics/1570-1646	X	16(4):	0.6
20.	<b>Nouroz, F.</b> , Noreen, S., Naveed, M., Ahmad, K and Heslop-Harrison, J.S.	2018	Identification and distribution of short interspersed nuclear elements (SINES) in <i>Brassica</i> genomes	Pakistan Journal of Botany	X	50(2): 749-756	0.8
21.	Ali, S., Khan, N., <b>Nouroz, F.</b> , Erum, S., Nasim, W.	2018	Effects of sucrose and growth regulators on the microtuberization of CIP Potato ( <i>Solanum tuberosum</i> ) germplasm	Pakistan Journal of Botany	X	50(2): 763-768	0.8
22.	Ali, S., Khan, N., <b>Nouroz, F.</b> , Erum, S., Nasim, W., Shahid, M.A.	2018	In vitro Effects of Gibberellic Acid on Morphogenesis of CIP Potato Explants and Acclimatization of Plantlets in Field	In Vitro Cellular and Developmental Biology-Plant	X	54(1): 104-111	0.6
23.	Noreen, S., Pegoraro M., <b>Nouroz, F.</b> , Tauber E and C.P. Kyriacou.	2018	Interspecific studies of circadian genes <i>period</i> and <i>timeless</i> in <i>Drosophila</i>	Gene/ISSN 0378-1119	W	648: 106-114	2.3

24.	Khan, N., Ahmad, M.S., Tabassam S., <b>Nouroz, F.</b> , Ahmad, A., Ghayyur, S., Rehman, A.U and Khan, M.F.	2018	Effects of Sub-Lethal Concentration of Cypermethrin on Histopathological and Hematological Profile of Rohu ( <i>Labeo rohita</i> ) during Acute Toxicity	International Journal of Agriculture and Biology	X	DOI: 10.17957/IJAB/15.0527	0.8
25.	<b>Nouroz, F.</b> , Noreen, S., Khan, M.F., Ahmed, S. and Heslop-Harrison, J.S.	2017	Identification and Characterization of Mobile Genetic Elements LINEs from <i>Brassica</i> Genome	Gene/ ISSN 0378-1119	W	627: 94-105	2.3
26.	<b>Nouroz, F.</b> , Noreen, S., Ahmed, H and Heslop-Harrison, J.S.	2017	The landscape and structural diversity of LTR Retrotransposons in <i>Musa</i> genome	Molecular Genetics and Genomics/ ISSN 1617-4615	W	292:1051-1067	2.6
27.	<b>Nouroz, F.</b> , Noreen, S. and Heslop-Harrison, J.S.	2017	Identification and evolutionary dynamics of CACTA DNA transposons in <i>Brassica</i>	Pakistan Journal of Botany/ISSN 2070-3368	X	49(2): 789-798	0.8
28.	Ahmed, S., Shakeela, Q., Khan, I., <b>Nouroz, F.</b> , Niaz, Z.	2017	Molecular detection of <i>Candidatus scalindua flavia</i> , study of anammox bacterial community structure, composition in the sediments of the East China sea and the yellow sea	Indian Journal of Geo Marine Sciences/ISSN 0975-1033	Y	46(1): 33-47	0.6
29.	<b>Nouroz, F.</b> , Noreen, S. and Heslop-Harrison, J.S.	2016	Characterization and diversity of novel <i>PIF/Harbinger</i> DNA transposons in <i>Brassica</i>	Pakistan Journal of Botany/ ISSN 2070-3368	X	48(1): 167-178	1.2
30.	<b>Nouroz, F.</b> , Noreen, S. and Heslop-Harrison, J.S.	2015	Identification, characterization and diversification of non-autonomous hAT transposons and unknown insertions in <i>Brassica</i>	Genes and Genomics/ISSN 1976-9571	W	37: 945-958	0.6
31.	<b>Nouroz, F.</b> , Noreen, S. and Heslop-Harrison, J.S.	2015	Molecular characterization and diversity of a novel non-autonomous <i>Mutator-like</i> Transposon family in <i>Brassica</i>	Pakistan Journal of Botany/ ISSN 2070-3368	X	47(4): 1367-1375	1.2
32.	<b>Nouroz, F.</b> , Noreen, S. and Heslop-Harrison, J.S.	2015	Evolutionary genomics of miniature inverted-repeat transposable elements (MITEs) in <i>Brassica</i>	Molecular Genetics and Genomics/ ISSN 1617-4615	W	290(6): 2297-2312	2.6
33.	Khattak, N.S., <b>Nouroz, F.</b> , Noreen, S and Rehman I	2015	Ethno veterinary uses of medicinal plants of District Karak, Pakistan	Journal of Ethnopharmacology/ ISSN 0378-8741	W	171: 273-279	2.9
34.	<b>Nouroz, F.</b> , Noreen, S., and Heslop-Harrison, J.S.	2015	Identification and Evolutionary Genomics of Novel LTR retrotransposons in <i>Brassica</i>	Turkish Journal of Biology/ISSN 1303-6092	X	39: 740-757	1.2
35.	Gerhard M., Tony, H., Manuela, M-S., <b>Nouroz, F.</b> , Harrison, JS and Schmidt, T.	2014	The diversification and activity of hAT transposons in <i>Musa</i> genomes	Chromosome Research/ISSN 0967-3849	W	22:559-571	2.3



PAPERS PUBLISHED IN ISI INDEXED/ NON-IMPACT FACTOR JOURNALS							
36.	Shah, Z.A., <b>Nouroz, F.</b> , Ejaz, S.	2022	Exceptional behaviour of breast cancer-associated type 1 gene in breast invasive carcinoma	Journal of Cancer Research and Theurapeutics	NA	In press	NIL
37.	Rehman, A.U., Ali, S., Rafiq, H., Rasheed, S., <b>Nouroz, F.</b> and Wadood, A.	2021	Computational Insight into the Binding Mechanism of Pyrazinoic Acid to RpsA Protein	Current Chinese Science	NA	1(2), 207-215	NIL
38.	Shah, Z.A., <b>Nouroz, F.</b> and Tayyeb, A.	2021	In Silico BRCA1 Pathway Analysis in Breast Invasive Carcinoma	MGM Journal of Medical Sciences	NA	IP: 10.232.74.23	NIL
39.	Akthar, F., Zeeshan, M., Ali, S., <b>Nouroz, F.</b> , Khan, S., Jalil, F., Sajid, U., Ikram, H. and Anwar, F.	2020	The Role of PTPN22 in Rheumatoid Arthritis and Type 1 Diabetes a Non-MHC Complex Linked	Biochemistry and Molecular Biology	NA	5(3): 29-35	NIL
40.	Irum, S., Khan, F.A., <b>Nouroz, F.</b> , Tahir, N., Ullah, A., Tahir, A., Rahman, T.U., and Erum, S	2019	Antimicrobial activity and phytochemical analysis of selected medicinal plants species	Academia Journal of Agricultural Research	NA	7(10): 243-250	NIL
41.	Bibi, S., Khan, M.F., Rehman, A. and <b>Nouroz, F.</b>	2019	Polyphyletic Origins of Schizothoracinae Fishes (Cyprinidae) in Respect to Their Mitochondrial Protein-Coding Genes	Poultry Fishes and Wildlife Sciences	NA	7(1): 1-4	NIL
42.	Ali, I., Khan, S., <b>Nouroz, F.</b> , Ibrahim, A., Bibi, F., Hamza, M., Khan, S., Mehmood, A., Khan S. and Rasheed, R.	2019	Repurposing of Modified Girsafilibanserin, Ilariscanakinumab, Remoxyoxycodone and Zefteraceftobiprole to Cure ACE (Angiotensin 1 Converting Enzyme) Gene Mutations in Hypertensive Heart Disease	Journal of Pharmaceutical and Drug Research	NA	2(5): 187-194	NIL
43.	Ahmad, K., Khalil, A.T., Somayya, R., <b>Nouroz Khan, F.</b> , Shah, A.R., Ovais, M and Shinwari, Z.K.	2017	Potential antifungal activity of different honey brands from Pakistan: a quest for natural remedy	African Journal of Traditional Complementary Alternative Medicines	NA	14(5): 18-23	NIL
44.	Irum, S., Khan, FA, Erum, S., <b>Nouroz, F.</b> , Muhammad, A and Kanwal, S.	2017	<i>In vitro</i> propagation of selected medicinal plants species	Asian Journal of Agriculture and Rural Development	NA	7(2): 40-47	NIL
45.	Abrar, S., Muhammad, K., Zaman, H., Khan, S., <b>Nouroz, F.</b> and Bibi, N.	2017	Molecular genetic analysis of Type II diabetes associated m.3243A>G mitochondrial DNA analysis in a Pakistani family	Egyptian Journal of Medical Human Genetics	NA	18(3): 305-308	NIL
46.	<b>Nouroz, F.</b> and Chaudhary, M.F.	2016	Phytohormonal impact on callus induction and proliferation in black cumin ( <i>Nigella sativa</i> L.)	International Journal of Agricultural and Applied Sciences	NA	8(2): 196-203	NIL

47.	<b>Nouroz, F.</b> , Shaheen, S., Noreen, S., Rehman I.U. and Hussain S.	2016	Native herbal folklore to control Diabetes Mellitus around the globe: A review	American-Eurasian Journal of Agriculture and Environmental Sciences	NA	16(12): 1790-1797	NIL
48.	Noreen, S., <b>Nouroz, F.</b> , Ahmad, S., Khan S. and Khan, M.H.	2016	Analysis of Wound Infections in Diabetic Patients in Abbottabad and Manshra Districts Pakistan	American-Eurasian Journal of Toxicological Sciences	NA	8(4): 148-151	NIL
49.	Khan F.A., Irum, S., Erum, S., Muhammad, A., <b>Nouroz, F.</b> and Kanwal, S.	2016	<i>In Vivo</i> propagation of Potato ( <i>Solanum tuberosum</i> L.) cultivars	Asian Journal of Agriculture and Rural development	NA	6(11): 210-220	NIL
50.	Rahim, M.S., Azeem, F., Ali, H., Bibi, N and <b>Nouroz, F.</b>	2016	Morphogenetic Characterization of Bc2-F4 Population of Rice	American-Eurasian Journal of Agriculture and Environmental Sciences	NA	16(9): 1602-1609	NIL
51.	Ali, S., Erum, S., <b>Nouroz, F.</b> , Khan, N., Mehmood, A., Shah, S. H. A., Raheem, A. and Muhammad A.	2016	<i>In vitro</i> conservation of Potato genotypes through different incubated temperatures, aerophilic and Micro-aerophilic conditions	International Journal of Biodiversity and Conservation	NA	8(7): 147-152	NIL
52.	<b>Nouroz, F.</b> , Bibi, F., Noreen, S. and Masood, N.	2016	Natural killer cells enhance the immune surveillance of cancer	Egyptian Journal of Human Medical Sciences	NA	17(2): 149-154	NIL
53.	Ahmed, T., Haroon, <b>Nouroz, F.</b> , Nath, A., Sabihuddin and Ayasu, E.	2015	Prevalence of Sputum Smear Positive Suspected Visited Patients in Selected Area of District Malakand, Pakistan	Science, Technology and Arts Research Journal	NA	4(3): 184-186	NIL
54.	<b>Nouroz, F.</b> , Azeem, A, Javed, M.A., and Noreen, S.	2015	Study of Biopesticide in Comparison with synthetic pesticide to control Onion Thrips	International Journal of Agriculture and Applied Sciences	NA	7(2): 127-131	NIL
55.	Qasim, M., Jan, F., <b>Nouroz, F.</b> , Shah, S.H., Rozina, Ahmad, N and Ali, Z.	2015	Ethno Medicinal Study of Swabi, Pakistan	European Academic Research	NA	3(7): 8410-8424	NIL
56.	Hussain, A., Ahmad, T and <b>Nouroz, F.</b>	2015	Frequency distribution of Typhoid infection among the visited patients at Rural Health Centre Shamshi Khan Lower Dir, Pakistan	Journal of Rashid Latif Medical College Lahore	NA	1: 29-31	NIL
57.	Hubab, M., Hayat, A., Zardad, R., Rehman, M.U., Jadoon, M.A., Khattak, A.A and <b>Nouroz, F.</b>	2015	Comparative Analysis of Biological Impurities in Potable Water from Different Regions of Hazara Division, Pakistan	Journal of Rashid Latif Medical College Lahore	NA	1: 21-25	NIL
58.	Zunaira, S., Sayyal A.U., Daud, M., Hassan, A., Shah, S.A.A., Bahadar, S., Ali, M., Hayat, A., Khattak, A.A., <b>Jadoon, F.K.</b> and Rehman, M.U.	2015	Physio-chemical and microbial analysis of drinking water contaminated with industrial waste in Hattar District, Khyber Pakhtunkhawa, Pakistan	Journal of Biodiversity and Environmental Sciences	NA	7(2): 24-244	NIL

59.	Ali, F., Bahadar, S., Khalil Ur Rahman, Khan, I., Zeb, A., Khan, J., Daud, M., Hassan, A., Rabbani, N.K., Khattak, A.A., <b>Jadoon, F.K.</b> and Hayat, A.	2015	Isolation and identification of lipase producing bacteria from coal mines of Darra Adam Khel, Khyber Pakhtoonkhawa, Pakistan	International Journal of Biosciences	ISI	7(2): 187-191	NIL
60.	Khan, M, Noreen, S., <b>Nouroz, F.</b> , Ayub, U., and Khan, A.W.	2015	Correlation of Hemoglobin and Red Cell Indices in Iron Deficient Anemic Pregnant Women from Haripur, Pakistan	Pakistan Journal of Clinical and Biomedical Research	NA	1: 06-09	NIL
61.	Baseer, S., Khan, S and <b>Nouroz, F.</b>	2015	Computational drug Cumintrazole-analog for the treatment of mutant BRCA1 and BRCA2 proteins in breast cancer	International Current Pharmaceutical Journal	NA	4(8): 410-414	NIL
62.	<b>Nouroz, F.</b>	2015	Large Retrotransposon Derivatives (LARDs) and Terminal Repeat Retrotransposons in Miniature (TRIMs) in <i>Brassica</i> Genomes	International Journal of Agriculture and Applied Sciences	NA	7(1): 59-66	NIL
63.	<b>Nouroz, F.</b> , Shaheen, S., Mujtaba, J and Noreen, S.	2015	An overview on Hepatitis C Virus genotypes and its control	Egyptian Journal of Medical Human Sciences	NA	16: 291-298	NIL
64.	Khan, H., <b>Nouroz, F.</b> , Khan, M.F. and Rizwan, S.	2015	Nutritional Values of Selected Date Palm Varieties in Pakistan	American-Eurasian Journal of Agriculture and Environmental Sciences	NA	15(5): 764-768	NIL
65.	<b>Nouroz, F.</b> Mehboob M, Noreen, S., Zaidi, F. and Mobin, T.	2015	A Review on Anticancer Activities of Garlic ( <i>Allium sativum</i> L.)	Middle East Journal of Scientific Research	NA	23(6): 1145-1151	NIL
66.	Shaheen, S., <b>Nouroz, F.</b> , Khan, S and Noreen, S.	2015	A Review on Hepatitis B Virus, its Genotypes and Risk Factors	Middle East Journal of Scientific Research	NA	23(6): 1152-1157	NIL
67.	Farooq, M., Hassan, M., Gul, F., Sohail, Rehman, I., Afzal, M., Khattak, N.S., <b>Nouroz, F.</b> , Iqbal, Z.	2015	Variations in ariel mycobiota or archeological sites of Taxila, Pakistan	Journal of Biodiversity and Environmental Sciences	ISI	6(3): 65-72	NIL
68.	Bukhari, Z., <b>Nouroz, F.</b> , Ilyas, U., Noreen, S and Saeed, S.	2014	<i>Alternaria alternata</i> : A new pathotype of the fungus causing <i>Alternaria</i> leaf spot to Lettuce	International Journal of Agriculture and Applied Sciences	NA	6(2): 188-194	NIL
69.	Shaheen, S., <b>Nouroz, F.</b> , Mujtaba, G., Noreen, S and Farooq, M.	2014	A study on seroprevalence of ABO Blood groups in Lahore, Pakistan	Journal of Rashid Latif Medical College Lahore	NA	3(2): 24-27	NIL
70.	Khan, M., <b>Nouroz, F.</b> , Ayub, U., Khan, A.W and Hussain, N.	2014	Incidence of <i>Helicobacter pylori</i> infection in the population of Islamabad	Journal of Rashid Latif Medical College Lahore	NA	3(2): 28-30	NIL
71.	Mehboob, M., Noreen, S., <b>Nouroz, F.</b> , Amir, R and Mobin, T.	2014	Dengue: A review on disease symptoms, detection and its management	Journal of Rashid Latif Medical College Lahore	NA	3(2): 38-43	NIL
72.	Noreen, S., <b>Nouroz, F.</b> , Ahmad, S., Khan, S., Aslam, A. and Bukhari, Z.	2014	Prevalence of Anemia in Pregnant Women of District Abbottabad, Pakistan	Pakistan Journal of Clinical and Biomedical Research	NA	2(2): 12-16	NIL

73.	Noreen, S., Bibi, F., <b>Nouroz, F.</b> , Jabeen, S., Hayat, A.	2014	Immunomodulatory and Anti-Tumor Activities of Beta-Glucans. Pakistan	Journal of Clinical and Biomedical Research	NA	2(2): 34-38	NIL
74.	Mehboob, M., <b>Nouroz, F.</b> and Noreen, S.	2014	Natural and Herbal Remedies for Dengue Prevention	Pakistan Journal of Clinical and Biomedical Research	NA	2(2): 44-47	NIL

\*The Impact factors are counted from the year of publication of the paper.

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**ABSTRACTS PUBLISHED IN CONFERENCE PROCEEDINGS/ABSTRACT BOOKS:**

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**2022:**

List of Abstract papers presented and published in “Fourth International Conference on Emerging Trends in Bioinformatics and Biosciences” held on October 15-17, 2022 at Hazara University Mansehra Pakistan.

1. Faisal Nouroz and Shumaila Noreen. Bioinformatics Approaches for Identification and Evolutionary Dynamics of Transposable Elements. Abstract Book Page No. 26.
2. Sara Khan, Umar Farooq and Faisal Nouroz. Targeting Protein Tyrosine Phosphatase and A-Glucosidase to Find Possible Diabetes Mellitus Inhibitors Using In Silico Approach. Abstract Book Page No. 34.
3. Akasha Urooj, Faisal Nouroz, Sara Khan. Unraveling possible inhibitors for Chorismate synthase using in silico approach. Abstract Book Page No. 35.
4. Azka Jadoon, Khizra Ayaz, Sajid Khan, Maharij Haroon Jadoon, Faisal Nouroz. Targeting ERK2/MAPK1 to Find Potent Inhibitors for Type 2 Diabetes Mellitus Using Computational Drug Design Approaches. Abstract Book Page No. 50.
5. Zarlish Attique, Sajid Khan, Muhammad Hamza, Waqar Ali, Faisal Nouroz. Molecular Characterization of the Prognostic Markers Against Metastatic Breast Cancer. Abstract Book Page No. 53.
6. Faisal Nouroz, Shumaila Khan, Sara Khan and Azra Batool. Contribution of Non-Covalent Interactions Toward Protein Stability in Representative Extremophilic Proteins. Abstract Book Page No. 58.
7. Muhammad Usman, Ashfaq Ahmad, Zain Ul Abideen, Faisal Nouroz. Mechanistic Insight of Staphylococcal Grax in Regulating Two Component Systems And ATP-Binding Cassette Transporters. Abstract Book Page No. 59.

**2019:**

List of Abstract papers presented and published in “Third National Conference on Emerging Trends in Bioinformatics and Biological Sciences” held on October 03-05, 2019 at Department of Bioinformatics, Hazara University Mansehra Pakistan.

- 1) Faisal Nouroz. PeP2021 Polyploidy and Evolution in Plants Symposium on September 11-13, 2021 in China.
- 2) Faisal Nouroz. Applications of Bioinformatics softwares in genome analysis. Abstract Book Page No. 19.
- 3) Zohaib Bashir, Sabeen Saba, Sara Khan and Faisal Nouroz. Designing and mathematical modeling of SIRNA to silence abnormal CD209 gene expression in Dengue fever and HIV. Abstract Book Page No. 28.
- 4) Sara Khan, Umar Farooq, Sidra Khan, Faisal Nouroz. A road to protein stability – at the interface of rigidity/flexibility. Abstract Book Page No. 44.
- 5) Shumaila Noreen and Faisal Nouroz: Applications of molecular markers in genome analysis and biodiversity. Abstract Book Page No. 63.
- 6) Muhammad Hussain Amin and Faisal Nouroz. *In-silico* studies on prospective role of *Cannabis sativa* metabolites in diabetes mellitus type 1 disease. Abstract Book Page No. 158.
- 7) Ajmal Khan, Faisal Nouroz, Shazia Erum and Agha Younas Khan. Determination of processing and nutritional quality attributes of different potato (*Solanum tuberosum* L.) Germplasm for industrial use. Abstract Book Page No. 159.
- 8) Muhammad Usman, Zain Ul Abideen, Ashfaq Ahmad, Faisal Nouroz. Conformational hotspots of dengue virus NS5 RDRP. Abstract Book Page No. 169.
- 9) Zain Ul Abideen, Muhammad Usman, Ashfaq Ahmad, Faisal Nouroz and Hongmin Zhang. Combating new delhi metallo  $\beta$ -lactamases resistance: searching new drugs in the pool of millions. Abstract Book Page No. 170.
- 10) Zainab Jan, Zainab Bashir, Ashfaq Ahmad, Faisal Nouroz. Computational study screening for antibacterial activity of scorpion venom toxin against *Mycobacterium tuberculosis*. Abstract Book Page No. 173.
- 11) Hamza Qureshi, Sara Khan, Faisal Nouroz, Mazhar Khan, Umar Zeb, Muhammad Hussain Amin. Exploring the potential role of cannabinoids as therapeutic agent for asthma. Abstract Book Page No. 174.
- 12) Mazhar Khan, Sara Khan, Faisal Nouroz, Hamza Qureshi, Umar Zeb, Muhammad Hussain Amin, Azra Batool. *In-silico* studies for prospective role of *Cannabis sativa* metabolites in psoriasis disease. Abstract Book Page No. 212.
- 13) Nabeel Ahmad, Anam Ul Haq Ahsan, Muhammad Usman, Faisal Nouroz. *In-silico* studies of HNF-4 $\alpha$  for diabetes type-2 by docking techniques. Abstract Book Page No. 214.

## 2018:

List of Abstract papers presented and published in “Second National Conference (09-11 August, 2018) on Emerging Trends in Bioinformatics and Biological Sciences” at Department of Bioinformatics, Hazara University Mansehra Pakistan.

- 14) **Faisal Nouroz**, Madiha Mehboob, Tibgha Mobin, Shumaila Noreen, Sajid Khan. *In silico* approach for antiviral drug designing against dengue. Abstract Book (AB) Page No. 16.
- 15) Farzana Bibi, **Faisal Nouroz**, Shumaila Noreen, Sajid Khan. Identification of immune system boosters by computational methods. AB Page No. 19.
- 16) **Faisal Nouroz**, Mukaramin, Hina Mushtaq, Shumaila Noreen and J.S. Heslop-Harrison. Mobile genetic elements; identification and diversification in various genomes. AB Page No. 21.
- 17) Taiba Anwar, Nousheen Bibi, Shumaila Noreen, **Faisal Nouroz**. Functional and structural consequences of damaging single nucleotide polymorphisms in human PPAT gene. AB Page No. 23.
- 18) Sidra Shaheen, **Faisal Nouroz**, Ghulam Mujtaba, Shumaila Noreen, Asma Ibrahim. Sequence analysis among different HCV genotypes in their 5' UTR region of isolates from Pakistan. AB Page No. 24.
- 19) Mubibullah, **Faisal Nouroz**, Taiba Anwar, Azizullah, Bibi Hamza, Bushra Zaib. Prediction of changes in protein-protein binding affinity on mutations of DLC-1. AB Page No. 27.
- 20) Hamza Qureshi, **Faisal Nouroz**, Zulfiqar Ahmad, Mazhar Khan, Umer Zeb. Prevention of allergen response by erasing immune memory: a cure to asthma. AB Page No. 29.
- 21) Faizan Ahmad, **Faisal Nouroz**, Manzoor Hussain, Shumaila Noreen. Interspecies relatedness and species specificity among the rotavirus species. AB Page No. 30.
- 22) Hina Mushtaq, **Faisal Nouroz**, Shumaila Noreen. The LTR Retrotransposons composition in zebu cattle (*Bos indicus*). AB Page No. 31.
- 23) Bibi Hamza, Zunaira Malik, Shumaila Noreen and **Faisal Nouroz**. *In silico* structural and functional prediction of super molecule 2IBJ\_A of *Musca domestica*. AB Page No. 33.
- 24) Muhammad Umair Khan, **Faisal Nouroz**, Zaffar Jamal, Shumaila Noreen. Evolutionary dynamics of Polintons: rarely investigated superfamily of DNA transposons. AB Page No. 35.
- 25) Muhammad Rizwan, **Faisal Nouroz**, Nosheen Bibi, Sajid Khan. Transcriptome analysis of sarcoma patients to investigate prognostic and diagnostic markers. AB Page No. 36.
- 26) Hajra Khalid, **Faisal Nouroz**, Shumaila Noreen. *In silico* investigation of DNMT1 signaling cascade role in gastric cancer. AB Page No. 140.
- 27) Sana Malik, **Faisal Nouroz**, Muhammad Usman, Madiha Mehboob. *In silico* molecular docking studies and design of Parkinson disease inhibitor. AB Page No. 144.
- 28) Rabia Iftikhar, Muhammad Rizwan, Sajid Khan, Azhar Mehmood, **Faisal Nouroz**. *In silico* anticancer effects of Kaemferol in human melanoma cells via induction of cell cycle arrest & down-regulating activity of CDK4. AB Page No. 164.
- 29) Muhammad Ali Swati, Sajid Khan, Azahar Mehmmod, Muhammad Rziwan, **Faisal Nouroz**. B-cell epitope based vaccine designing against human parainfluenza virus interaction with HLA-DRB0101, HLA-A0203 & HLA-TAP. AB Page No. 172.
- 30) Assra Jehangir Qureshi, Sophi, Sajid Khan, Muhammad Rizwan, Azhar Mehmood, **Faisal Nouroz**. *In silico* identification of common putative drug targets in an emerging pathogen, *Acinetobacter baumannii*. AB Page No. 175.
- 31) Muhammad Sadiq Rahim, **Faisal Nouroz**, Mohammad Haroon Khan, Saidul Abrar, Taskin ur Rehman. Molecular and bioinformatics analysis of mutation associated with multi drug resistant *Mycobacterium tuberculosis*. AB Page No. 177.
- 32) Muhammad Usman, Zain Ul Abideen, **Faisal Nouroz**, Bushra Zaib. Exploring the potential of different inhibitors against the binding site of interleukin-1 $\beta$ . AB Page No. 191.
- 33) Muntazir Imam Naqvi, **Faisal Nouroz**, Muhammad Usman, Shumaila Noreen. Genetic diversity of mitochondrial ND2-NADH gene sequence of *Bos taurus* (cattle) at different locus. AB Page No. 193.
- 34) Zain Ul Abideen, Muhammad Usman, **Faisal Nouroz**, Bushra Zeb. Analysis of cancer biomarker genes using digital differential display. AB Page No. 194.
- 35) Saba Khalid, Ghulam Mujtaba Shah, Manzoor Hussain, **Faisal Nouroz**. Identification of inhibitor against Zika virus NS3 helicase. AB Page No. 195.

- 36) Sapna Harmain, **Faisal Nouroz**, Shumaila Noreen. *In silico* analysis of doxorubicin mediated network in gastric cancer. AB Page No. 196.
- 37) Shazi Khalil, Shumaila Noreen, Zafar Jamal, **Faisal Nouroz**. Evolutionary genomics of CACTA and Harbinger DNA transposons. AB Page No. 197.
- 38) Saman Khan, Hoorya Abbasi, Arooba Akhtar, **Faisal Nouroz**. *In silico* structural and functional prediction of sub sp. malaccensis protein xp\_0093939834.1 found in *Musa acuminata*. AB Page No. 199.
- 39) Mehwish Bibi, Shumaila Noreen, Arooba Akhtar, **Faisal Nouroz**. Helitron superfamily of DNA transposons and its evolutionary genomics. AB Page No. 203.

#### 2017:

- 40) List of papers presented in “First National Conference (20-22 July, 2017) on Emerging Trends in Bioinformatics and Biological Sciences” at Department of Bioinformatics, Hazara University Mansehra Pakistan.
- 41) **Nouroz, F.** and Heslop-Harrison, J.S. 2017. Characterization and phylogenetics of Mobile Genetic Elements in *Brassica* genomes. Abstract Book (AB) Page No. 32.
- 42) Khan, S., **Nouroz, F.**, Nawaz, M.S. and Hamid, R. 2017. Computational study of Alzheimer Amyloid Beta (A $\beta$ ) against molecular drug Posiphen, Phenserine and its primary metabolic analogs. AB Page No. 35.
- 43) Azeem, A., **Nouroz, F.**, Rehman, I. and Ijaz, F. 2017. Bioefficacy of *Nicotiana tabacum* extract (T.E) against onion thrips. AB Page No. 40.
- 44) Khan, F.A., **Nouroz, F.**, Irum, S., Erum, S., Muhammad, A. and Kanwal, S. 2017. *In vivo* propagation of potato (*Solanum tuberosum* L.) cultivars. AB Page No. 42.
- 45) Islam, M., Alam, J., Kareem, S., Ahmad, I. and **Nouroz, F.** 2017. Morpho-anatomic studies and distribution pattern of *Fissidens grandifrons* from Pakistan. AB Page No. 43.
- 46) Irum, S., **Nouroz, F.**, Khan, F.A., Erum, S., Kanwal, S. and Muhammad, A. 2017. *In vitro* propagation of selected medicinal plants species. AB Page No. 45.
- 47) Baseer, S., **Nouroz, F.**, Zada, M. and Khan. 2017. The insecticidal properties of *Ailanthus excelsa* leaves extracts. AB Page No.46.
- 48) Masood, N., Yasmin, A., Muabashar, A., Malik, S.S., Taseer, B., Noreen, S. and **Nouroz, F.** 2017. A case control study showing glutathione s transferases deletion risk in different cancers. AB Page No. 59.
- 49) Khan, M.H., Bano, R., Ismail, M., Mansoor, Q., Shah, G.M., **Nouroz, F.** and Rashid, H. 2017. Association between novel genetic alterations of AR Gene and their interaction with common risk factors in prostate cancer. AB Page No. 61.
- 50) Khan, A., **Nouroz, F.**, Erum, S. and Khan, A.Y. 2017. Proximate and nutritional profile of different potato germplasms in Pakistan. AB Page No. 65.
- 51) Habib, D., **Nouroz, F.** and Chaudhary, M.F. 2017. Culture media stress on the activity of Glutamate Dehydrogenase of Antidiabetic Medicinal herb. AB Page No. 70.
- 52) Zada, M., Farooq, U., **Nouroz, F.**, Shah, G.M., Ullah, Z. and Ali, A. 2017. Leaf surface Micromorphology of Panicoideae (Poaceae) from Marghazar Swat, Pakistan. AB Page No. 71.
- 53) Mukaramin and **Nouroz, F.** 2017. Characterization and diversity of LTR retrotransposons in date palm (*Phoenix dactylifera*) genome. AB Page No. 79.
- 54) Hussain, S., Khan, S., Naz, A., Aurangzeb, N., Abid and **Nouroz, F.** 2017. Ethnobotanical inventory and folklores of indigenous plants of Neelan valley, district Abbottabad, Pakistan. AB Page No. 80.
- 55) Mujahid, T., **Nouroz, F.** and Shafiq, M.I. 2017. Isolation, characterization and comparative analysis of protease enzyme in different fruits and vegetables. AB Page No. 82.
- 56) Siqaf, M., Ahmad, K., Abid, G-R., Ali, A., Rahat, S., Somayya, R. and **Nouroz, F.** Phenotypic and genotypic analysis of beta-lactamases in *Escherichia coli* isolated from fish. AB Page No. 107.
- 57) Khan, M.F., Khattak, M.N.K., He, D., Chen, Y. and **Nouroz, F.** 2017. Comparative phylogenetic of snow trout (*Schizothorax plagiostomus*) with reference to control region from river panjkora, Khyber Pakhtunkhawa, Pakistan. AB Page No. 108.
- 58) Miandad, R., Barakat, M.A., Aburiazaiza, A.S., Rehan, M., Ismail, I.M.I., Nizami, A.S. and **Nouroz, F.**, 2017. Resources recovery from scrap tires: a case study of Saudi Arabia. AB Page No. 134.
- 59) Ahmad, K., Ali, A., Ullah, M.J., Somayya, R., Rahat, S. and **Nouroz, F.** Dissemination of ESBL genes among clinical isolates of *Pseudomonas aeruginosa*. AB Page No. 138.

- 60) Shaheen, S., **Nouroz, F.**, Bibi, N, Khan, M.H., Mujtaba, G. and Noreen, S. 2017. Sequence analysis among different HCV genotypes in their 5'UTR region. AB Page No. 140.
- 61) Khan, M. A., **Nouroz, F.**, Khan, M.H. and Khan, S. 2017. *In silico* nanoparticles-based drugs designing for Astrocytomas. AB Page No. 157.
- 62) Khan, Y., **Nouroz, F.** and Khan, S. 2017. Immunoinformatics and comparative strain analysis of ebola virus. AB Page No. 158.
- 63) Ahmad, S., **Nouroz, F.**, Aslam, A., Bibi, F., Noreen, S. 2017. Surveillance of dengue hemorrhagic fever in district Abbottabad, Pakistan. AB Page No. 176.
- 64) Bibi, F., **Nouroz, F.**, Khan, S., Ahmad, K. and Noreen, S. 2017. A potential drug target (ctla-4) for cancer therapeutics. AB Page No. 181.
- 65) Ahmad, F., **Nouroz, F.**, Niaz, S., Bibi, N. and Khan, S. 2017. Phylogenetic analysis and in silico unique restriction cut sites analysis of simian rotavirus. AB Page No. 186.
- 66) Khan, A.W., **Nouroz, F.**, Khan, M.H., Shah, G.M. and Noreen, S. 2017. Virtual screening and candidate drug designing against HCV NS5B. AB Page No. 187.

#### 2016:

- 67) **Nouroz, F.** Noreen, S and J.S. (Pat) Heslop-Harrison, 2016. Characterization and Evolutionary Genomics of LTR Retrotransposons in *Brassica*. International Conference in Biochemistry and Molecular Biology at COMSATS Abbottabad.
- 68) **Nouroz, F.** Noreen, S and J.S. (Pat) Heslop-Harrison, 2016. Diversification and evolutionary genomics of Transposable elements in *Brassica* genome. International Conference (16-18 May, 2016) on Emerging Research in Sciences and Humanities (ERSH-2016) at Kuala Lumpur, Malaysia.
- 69) **Nouroz, F.** and J.S. (Pat) Heslop-Harrison, 2016. Diversification and evolutionary genomics of Transposable elements in *Brassica* genome. International Conference (2-3 Feb, 2016) on Emerging Research for Sustainable Economic Development (ERSED-2016) at Dubai, UAE.
- 70) Ali, S., Erum, S., **Nouroz, F** and Muhammad, A. 2016. In-Vitro conservation of Exotic Potato Genotypes through different incubated temperatures, Aerophilic and micro Aerophilic conditions. International Botanical Conference (14-16 Jan, 2016), University of Karachi, Pakistan.
- 71) Farqaulit, F., Khan, W., Khan, S.M., Jamal, Z., **Nouroz, F** and Sajid, M. 2016. Medicinal plants used in Traditional folk recopies by the inhabitants of Nathiagali, Abbottabad, KPK. International Botanical Conference (14-16 Jan, 2016), University of Karachi, Pakistan.
- 72) Khan, W., Khan, S.M., Jamal, Z., **Nouroz, F** and Sajid, M. 2016. Rani, S., Structural diversity and its components of the vegetation of the lower Himalayan forests region of Ayubia National Park and its catchment Areas of District Abbottabad, KPK. International Botanical Conference (14-16 Jan, 2016), University of Karachi, Pakistan.
- 73) Rahman, I.U., Afzal, A., Iqbal, Z., Khan, S.M., **Nouroz, F** and Ijaz, F. 2016. Foliar application of Plant mineral nutrients under Nutrient deficient soil conditions enhanced the growth of Chickpea (*Cicer arietum* L.). International Botanical Conference (14-16 Jan, 2016), University of Karachi, Pakistan.
- 74) Pency, K., Khan, Jamal, Z., Khan, W., Sajid, M and **Nouroz Khan, F.** 2016. Taxonomic studies of Archegoniates from District Abbottabad of Hazara Region Khyber Pakhtunkhawa, Pakistan. International Botanical Conference (14-16 Jan, 2016), University of Karachi, Pakistan.
- 75) **Nouroz, F.**, Rehman, I.U., Jamal, Z., Jadoon, W.K and Heslop-Harrison, J.S. 2016. Characterization and diversity of CACTA DNA transposons in *Brassica* genomes. International Botanical Conference (14-16 Jan, 2016), University of Karachi, Pakistan.
- 76) Ali, A., **Nouroz, F.**, Noreen, S., Khan, A-R., Ali, A., Khan, M.A., Mukaramin., Asif, M and Rahman, I.U. 2016. Characterization and Evolutionary genomics of Retrotransposons in *Citrus sinensis* L. International Botanical Conference (14-16 Jan, 2016), University of Karachi, Pakistan.

#### Before 2015

- 77) Heslop-Harrison, J.S., Gerhard M., Tony, H., **Nouroz, F.**, Schwarzacher, T and Schmidt, T. 2015. Transposable Elements and Their Evolution in *Musa*. International Congress on Plant and Animal Genome XXIII (10-14 Jan, 2015), San Diego, California, USA.



- 78) **Nouroz. F.**, Arif, M., Farooq, M and Noreen, S. 2014. Evolutionary Genomics of Reverse Transcriptase (RT) in various super-families of LTR retrotransposons. International conference of Plant Sciences (ICPS; 22-24 September, 2014), Department of Botany, GC University Lahore Pakistan.
- 79) Khan, A., Irum, S., Muhammad A., and **Nouroz, F.**, 2014. Screening the Nutritional Potential in Selected Potato Germplasm in International conference at University of AJK.
- 80) **Nouroz. F.** and J.S. (Pat) Heslop-Harrison, 2013. Identification and characterization of Transposable elements (TEs) by Bioinformatics and molecular techniques shows their Diversity and Evolution. 1<sup>st</sup> International conference (25 May, 2013) on Emerging Trends in Bioinformatics and Computational Biology at Muhammad Ali Jinnah University, Rawalpindi, Pakistan.
- 81) Schwarzacher, T, Teo, C.H., **Nouroz, F.**, and Heslop-Harrison, J.S. 2012. Mobile Elements in Musa Genomes. International Congress on Plant and Animal Genome XX (14-18 Jan, 2012), San Diego, California, USA.
- 82) **Nouroz. F.**, S. Noreen and J.S. (Pat) Heslop-Harrison, 2011. “Comparative Analysis of *Brassica* Sequences Showed Transposable Elements as Major Contributors to Genome Evolution and Diversity” International SEB Annual Meeting (1-4 July, 2011) in Glasgow, Scotland.
- 83) **Nouroz. F.**, and J.S. (Pat) Heslop-Harrison, 2010. “Molecular Characterization and Evolutionary Activity of Transposable Elements in Diploid and Polyploid *Musa* and *Brassica* Genomes” in International SEB Annual Meeting (29 June-4 July, 2010) in Prague, Czech Republic.
- 84) **Nouroz. F.**, and J.S. (Pat) Heslop-Harrison, 2010. “Characterization of Insertion-Gap Pairs in Homoeologous Genomic sequences from *Brassica A*
- 85) and C Genomes” in UK-*Brassica* Research Community Annual Meeting (7<sup>th</sup> May, 2010) at Rothemsted Research, Conference Centre, Rothemsted United Kingdom.

#### RESEARCH PROJECTS ACHIEVED:

Project Title	PI/Co-PI	Amount	Sponsoring Agency	Duration	Completed/ In Progress
Developing strategy for economic development of developing countries through innovative Scientific Research	PI	1.2 Million	KS Global Research Malaysia	1 year	Completed
Identification of Cancer linked PLK1 alterations and their structural consequences	Co-PI	0.5 Million	HEC, Pakistan	1 year	Completed
Detection and comparison of microbial diversity in vegetable growing soil, by Metagenome sequencing	Co-PI	0.5 Million	HEC, Pakistan	1 year	Completed
Unravelling the possible inhibitors to treat tuberculosis targeting Chorismate synthase using <i>In silico</i> approach	Co-PI	0.5 Million	HEC, Pakistan	1 year	Completed Report awaited

#### RESEARCH GRANTS RECEIVED FOR ARRANGING CONFERENCES IN BIOINFORMATICS

##### Research grant/sponsorship received for 2<sup>nd</sup> National Conference (NCETBB-2018)

SN	Item	Amount (Rs)
1.	Registrations	410,000
2.	Hazara University Mansehra	100,000
3.	Surebio	100,000
4.	ECS	50,000
5.	Alpha Genomics	50,000
6.	Musaji Adam & Sons	30,000
	<b>Total</b>	<b>740,000/</b>

**Research grant/sponsorship received for 3<sup>rd</sup> National Conference (NCETBB-2019)**

SN	Item	Amount (Rs)
1.	Registrations	460,000
2.	Hazara University Mansehra	220,000
3.	ECS	50,000
4.	Alpha Genomics	30,000
5.	Musaji Adam & Sons	30,000
	<b>Total</b>	<b>790,000/</b>

**Research grant/sponsorship received for Fourth International Conference (ICETBB-2022)**

SN	Item	Amount (Rs)
1.	Registrations	600,000
2.	Hazara University Mansehra	200,000
3.	Pakistan Science Foundation	100,000
4.	Pak Glorious	100,000
5.	Akora Seeds	50,000
6.	Rays Technology	50,000
7.	National Bank	50,000
8.	WWS	50,000
9.	Irfan Enterprises	50,000
10.	ECS	50,000
11.	Alpha Genomics	50,000
	<b>Total</b>	<b>13,50000/</b>

**RESEARCH SUPERVISION:**

PhD:		
No.	STUDENT	YEAR
1.	Zafar Abbas Shah	Thesis in evaluation process
2.	Hamida Mahmood	In Progress
3.	Muhammad Adnan Khan	In Progress
4.	Muhammad Arif	In Progress
5.	Syeda Dur-e-Zahra	In Progress

M.Phil:			
No.	STUDENT	TITLE OF RESEARCH	YEAR
1.	Shahid Iqbal	Identifying the role of disulphide bond in stability of alpha amylase protein using molecular modelling approach	2022
2.	Qamar Zaman	<i>In Silico</i> screening and structural analysis of non-synonymous SNPs in human "BHLHA9" coding region leading to mesoaxial synostotic syndactyly	2022
3.	Qaiser Arfan	Repurposing of known neurodegenerative disease drugs against Covid-19 structure proteins	2022
4.	Muntazir Imam Naqvi	Phylogenetics and network-based approaches in accessing the whole genome and spike protein evolution of corona virus 2 in Pakistani population	2022
5.	Umar Zeb	Computational screening of mutations and phylogenetic analysis of Sars-CoV2-19 in selected sequences	2022
6.	Anam Ul Haq Ahsan	<i>In-vitro</i> detection and <i>in silico</i> comparison of microbial diversity by metagenomics sequencing in vegetable growing soil	2022
7.	Ishtiaq Ali	<i>In silico</i> structural and mutational analysis of coronavirus strains	2022
8.	Kinza Khalid	Identification of protein arginine methyltransferase-5 inhibitors using structure	2022

		based screening	
9.	Azra Batoool	Contribution of non-covalent interactions towards protein stability in representative extremophilic proteins	2022
10.	Muhammad Zeeshan	Multi epitope subunit vaccine designing against in silico Lujo virus infection using immunoinformatics approaches	2022
11.	Sabeen Saba	Targeting dihydrofolate reductase to explore treatment of urinary tract infections by <i>in silico</i> approach	2021
12.	Neelum Gul	Homology modelling of oil producing PDAT protein from <i>Arabidopsis thaliana</i> L.	2021
13.	Zohaib Bashir	Structural modelling of siRNA against abnormal <i>CD209</i> gene expression in dengue fever and HIV	2021
14.	Syed Umair Ahmad	Computational screening and structural characterization of non-synonymous SNPs in human E2F3 protein	2021
15.	Sumaira	The identification and genomics of LTR retrotransposons in chickpea ( <i>Cicer arietinum</i> L.)	2021
16.	Assad Ali Khan	The diversity and Phylogenetics of endogenous retroviruses across various genomes	2021
17.	Sadaf Rehman	Structural and Evolutionary Investigations of Sola and Zator DNA Transposons	2021
18.	Amna Waheed	Characterization, structural diversity and evolutionary dynamics of Cryptons	2021
19.	Akasha Urooj	<i>In silico</i> investigation of protein-inhibitor interactions in dehydroquinase synthase to treat tuberculosis	2021
20.	Basharat Ahmad	Identification of the natural products as inhibitors of cyclin dependent kinase, cdk2	2021
21.	Muhammad Umair Khan	Investigating the structural diversity and distribution of Polintons in various genomes	2021
22.	Saba Khalid	Identifying the structural features rendering stability in homologous proteins	2020
23.	Bibi Hamza	Analyses of genomic diversity among various families of long interspersed nuclear elements (LINEs)	2020
24.	Saman Shakeel	<i>In silico</i> analyses of selected genes involved in milk production and health related traits in cattle	2020
25.	Zunaira Malik	Evolutionary dynamics of Dictyostelium inverted repeat sequences (DIRs) among selected animal genomes	2020
26.	Zainab Zaman	Targeting tyrosine phosphatase to treat pneumonia using <i>in silico</i> approach	2020
27.	Zain Ul Abideen	Conformational characterization of <i>Staphylococcus aureus</i> staphylopin-binding protein, CNTA	2020
28.	Muhammad Usman	Mechanistic insight of staphylococcal <i>GRAX</i> in regulating two component system and ATP-binding cassette transporter	2020
29.	Ihsan ullah	Screening of PLK1 mutations in cancer patients and their structural and functional consequences	2020
30.	Rushna Khan	Computational investigation of risk factors responsible for MDR-tuberculosis	2020
31.	Nargis Saeed	A hybrid approach for the reconstruction of interaction network related to ovarian cancer	2019
32.	Taskin ur Rahman	Annotation and characterization of multi drug resistant <i>Mycobacterium tuberculosis</i>	2019
33.	Iqra Javaid	<i>In silico</i> study of evolution of selected plant derivatives for their Anti-Hepatitis activities	2019
34.	Umme Kalsoom	Ethno Bioinformatics study of medicinal plants for Diabetes	2019
35.	Safdar Seemab	DNA barcoding of selected <i>Mentha</i> species	2018
36.	Abdul Wajid Khan	Meta-analysis in hepatitis C virus genotypes and <i>in silico</i> drug development	2018
37.	Saba Jadoon	Gene pool characterization and structural prediction of proteins of <i>Andrographis peniculata</i>	2018
38.	Sehraiz Razaq	Pharmacophore based virtual screening to identify new Anthrax toxins inhibitors	2018
39.	Muhammad Rizwan	Transcriptome analysis of sarcoma patients to investigate prognostic and diagnostic markers	2018
40.	Syeda Sidra Kazmi	Computational approaches to design drug against Zika virus	2018

41.	Hina Mushtaq	Genome wide analysis of LTR Retrotransposons in Zebu cattle ( <i>Bos indicus</i> L.)	2018
42.	Taiba Anwar	<i>In silico</i> screening and analysis of non-synonymous SNPs in the human PPAT gene	2018
43.	Faizan Ahmad	Computational analysis of rotavirus genotypes and restriction site screening	2018
44.	Saira Bibi	Characterization and annotation of mitochondrial protein coding genes of Snow Trout ( <i>Schizothorax plagiostomus</i> )	2018
45.	Aqsa Rehman	Comparative phylogenetic analysis of selected members of sub family Shizothoracinae in river Swat, Pakistan	2018
46.	Muhammad Sadiq Rahim	Molecular and bioinformatics analysis of mutations associated with multi-drug resistant tuberculosis	2018
47.	Saidul Abrar	Exploring mutations responsible for multidrug resistant tuberculosis in Pakistan	2018
48.	Shazi Khalil	Evolutionary genomics of CACTA and Harbinger DNA transposon superfamilies	2018
49.	Farzana Bibi	<i>In silico</i> screening of plant compounds with anticancer drug activities	2017
50.	Zanib Bukhari	Bioinformatics study of selected plants for diabetes	2017
51.	Muhammad Adnan Khan	<i>In silico</i> nanoparticles-based drugs designing for Astrocytomas	2017
52.	Zafar Abbas Shah	Analysis of Mucin mediated signaling pathway in Gastric Cancer	2017
53.	Yousaf Khan	Immunoinformatics and comparative strain analysis of Ebola virus	2017
54.	Sidra Shaheen	Sequence analysis among different HCV genotypes in their 5'UTR region	2017
55.	Madiha Mehboob	Pharmacophore based drug designing for dengue virus	2017
56.	Zubair Shams ud Din	Construction of an efficient Transposable Elements database	2017
57.	Zeeshan Khan	Identification of LTR retrotransposons in <i>Oryctolagus cuniculus</i> genome using bioinformatics tools	2017
58.	Mehwish Jadoon	Mucin4 pathway analysis in Breast cancer	2017
59.	Ayesha Azeem	Bioefficacy of <i>Nicotiana tabacum</i> L. (tobacco) extract against onion thrips	2016
60.	Shumaila Munawar	Evaluation of Neem extract against cotton sucking pests	2016
61.	Shaukat Ali	Impact of sulphur levels on quality and yield of <i>Brassica napus</i> L. (Rapeseed) in Swat	2016
62.	Abrar ullah	Bioefficacy of crude <i>Allium sativum</i> L. (Garlic) extract against cotton sucking pests	2016
63.	Farhat Ali	Identification and characterization of high yield potato germplasm	2016
64.	Shabana Irum	<i>In vitro</i> propagation and antimicrobial activity of selected medicinal plants	2016
65.	Hazrat Luqman	Exploitation of lentil germplasm for morphological traits in Swat valley	2016
66.	Asghar Ali	Characterization and evolutionary genomics of retrotransposons in sweet orange	2016
67.	Syeda Nasiha Seemi	Bioefficacy of lemon peel extract against cotton pests	2015
68.	Muhammad Qasim	Establishment of tissue culture protocols for <i>Jatropha curcas</i>	2015
69.	Noor Saeed Khattak	Ethnoveterinary uses of plants of District Karak	2015
70.	Shahid Ali	<i>In vitro</i> and <i>in vivo</i> propagation of selected potato germplasm	2015
71.	Ajmal Khan	Biochemical properties of selected potato germplasm	2015
72.	Syed Haider Ali Shah	Role of plant growth regulators, sucrose and coconut water on organogenesis of <i>Vanda roxburghii</i>	2015
73.	Mukaramin	The structures and evolutionary genomics of LTR retrotransposons in date palm	2015
74.	Suhail Ahmad	Impact of Phosphorus on morphological and agronomical traits of Lentil	2015

#### M.Sc:

No.	STUDENT	TITLE OF RESEARCH	YEAR
1.	Naqash Khan	Use of various databases to screen Medicinal Plants and their compounds	2016

2.	Ravish Riaz	Prevalence of HBV and HCV in District Abbottabad, Pakistan	2015
3.	Mehwish Bibi	Prevalence of Brucellosis in District Abbottabad, Pakistan	2015
4.	Muhammad Arif Khan	Evolutionary genomics of reverse transcriptase (RT) in various super-families of LTR retrotransposons	2014
5.	Jaffar	Evolutionary genomics of Integrase (INT) domain in LTR retrotransposons	2014
6.	Bushra Naz	Comparative and phylogenetic analysis of aspartic protease (AP) domain in retroviruses and LTR retrotransposons	2014
7.	Zainy Riaz	Comparative and phylogenetic analysis of Ribonuclease H (RNase H) domain in retroviruses and LTR retrotransposons	2014
8.	Shaista Sher	Evolutionary genomics of GAG gene domain in retroviruses and gypsy LTR retrotransposons	2014
9.	Gurpreet Singh	Characterization of Copia and Gypsy Retrotransposons in diploid <i>Brassica</i> genomes	2012

<b>B.S (Honours)</b>			
<b>No.</b>	<b>STUDENT</b>	<b>TITLE OF RESEARCH</b>	<b>YEAR</b>
1.	Madiha Jabeen Abbasi	<i>In Silico</i> Investigation of CTNNB1 Signalling Network Expression in Liver Cancer: A Systematic Approach for Multitarget Therapy	S-2022
2.	Hira Khalid	In Silico Investigation of PTEN Network Participation in Uterine Carcinoma	S-2022
3.	Eiman Asif	Computational Analyses of ARF Transcription Factor Gene Family in <i>Arabidopsis thaliana</i>	S-2022
4.	Rohama Maghfoor	In Silico Investigation of Arsenic Signalling Network in Head and Neck Cancer	S-2022
5.	Anosha Zaman	Computational Investigation of CYP1A1 Signalling Network in Hepatocellular Carcinoma	S-2022
6.	Muhammad Danish	<i>In silico</i> Mutational and Phylogenetic analysis of Spike protein of SARS-CoV2 in Pakistani population	F-2021
7.	Pakeeza Shoukat	Mutational and Phylogenetic analysis of Envelope and Membrane proteins of SARS-CoV2 in Pakistani population	F-2021
8.	Hirra Khan	<i>In Silico</i> Mutational and Phylogenetic analysis of Spike protein of SARS-CoV2 from different countries	S-2021
9.	Nazma Bibi	<i>In Silico</i> studies of MDM2 Network expression in glioblastoma: A drug discovery approach	S-2021
10.	Fatiha Rais	Computational Screening of Mutations in NSP Poly Protein Family and Phylogenetics of Novel SARS-COV-2 Virus	F-2020
11.	Misbah Qayyum	In Silico Screening of Mutations in Spike and Nucleocapsid Proteins and Phylogenetics of Selected Strains of SARS-COV2	F-2020
12.	Anzal Sajjad	Identification of potential drug candidates against SARS COV-2 nucleocapsid protein using <i>In silico</i> approach	S-2020
13.	Haris	Identifying potential drug candidates to inhibit TNF-a protein using <i>In silico</i> approach	S-2020
14.	Jalal Ahmed Khan	Structural prediction and identification of protein inhibitors of OMPX employing <i>In silico</i> approach	S-2020
15.	Kainat Bibi	<i>In silico</i> prediction of ORFs expressing extracellular proteins in BAR SARS like corona virus	S-2020
16.	Mahmood Khan	<i>In silico</i> identification and analysis of human gene TRAPPC9 to ascertain most damaging non synonymous SNPs	S-2020
17.	Maryam Shah	Prediction and identification of ORFs expressing extracellular protein in human corona virus	S-2020
18.	Mashal Bibi	Targeting Tryptophan synthase (a-subunit) to unravel inhibitors by using molecular docking studies	S-2020
19.	Momina Kazmi	Molecular docking analysis of SARS COV-2 Spike glycoprotein with CD209L a human receptor	S-2020
20.	Noor Ul Ain Fida	Structural diversity of SARS COV-2 strains based on selected domains	S-2020
21.	Noor Ul Ain Wahid	Computational based drug designing for hepatocellular carcinoma by using molecular docking	S-2020
22.	Qamar Saleem	<i>In silico</i> designing of TALEN for editing of sweet 11 of rice	S-2020

23.	Samra Manzoor	Protein docking analysis of SARS COV-2 spike glycoprotein against angiotensin-converting enzyme 2(ACE2) as a SARS COV-2 receptor	S-2020
24.	Sana Nadeem	Structural and functional of autism spectrum disorder protein, CNTNAP2	S-2020
25.	Umaina Javed	<i>In silico</i> designing of TALEN for editing of sweet 14 of rice	S-2020
26.	Aamir Saeed	Computational study of acCATH-1 peptide from lizard venom in typhoid fever	F-2019
27.	Aleem Ullah	<i>In silico</i> study of CDKN2A signalling network in cutaneous malignant melanoma	F-2019
28.	Ashfaq Ali Khan	ATM network analysis to identify drug target in glioblastoma cancer	F-2019
29.	Iqra Bibi	<i>In silico</i> approach to analyse BRAF signalling network in colorectal adenocarcinoma	F-2019
30.	Zainab Jan	Computational study of cysteine rich peptides targeting lipid bilayer of <i>Mycobacterium</i>	F-2019
31.	Sher Rehman	In silico analysis of venom genes involved in various cancers	F-2019
32.	Nazish Ahmad Shakeeb	Bioinformatics approaches for structure and function of snake venom peptide	F-2019
33.	Mazhar Khan	In-silico studies on prospective role of <i>Cannabis sativa</i> metabolites in psoriasis disease	S-2019
34.	Alveena Iftikhar	Phylogenetics and networking analysis of urinary bladder cancer	S-2019
35.	Ayesha Rasheed	In-silico approach for antiviral drug designing against dengue NS1 protein	S-2019
36.	Azra Batool	Oncogenomic analysis of KRAS gene involved in colorectal cancer	S-2019
37.	Eman Irshad	In-silico identification of Potent inhibitors against EPM2A	S-2019
38.	Hamza Qureshi	Exploring the potential role of cannabinoids as therapeutic agent for asthma	S-2019
39.	Hifsa Bibi	Phylogenetic analysis of Parkinson's disease	S-2019
40.	Kinza Khalid	Phylogenetic analysis associated with neurodegenerative alzheimer's disease in natural model	S-2019
41.	Laraib Awan	Oncogenomics approach to identify amplification of HMGA2, CDKN2a, TP53, MDM2 pathway in sarcoma	S-2019
42.	M. Hussain Amin	<i>In-silico</i> studies on prospective role of <i>Cannabis sativa</i> metabolites in diabetes mellitus type-1 disease	S-2019
43.	Umar Zeb	<i>In-silico</i> analysis for possible role of <i>Cannabis sativa</i> metabolites in diabetes mellitus type-2	S-2019
44.	Abdul Majid Khan	<i>In silico</i> identification of potent inhibitors against TNF-a	F-2018
45.	Iftikhar Ahmad	<i>In silico</i> investigation of TET2 signalling pathway role in multiple Myeloma leukemia	F-2018
46.	Liaqat Ali	Expression and mutation analysis of MET network in lung adenocarcinoma	F-2018
47.	Mohsin Ali	<i>In silico</i> investigation of EGF network contribution in skin cutaneous melanoma	F-2018
48.	Muhammad Ilyas	MYC interactions, mutations and expression analysis in lung adenocarcinoma	F-2018
49.	Nabeel Ahmad	<i>In silico</i> studies of HNF-4a for diabetes type-2 by docking techniques	F-2018
50.	Mohibullah	Prediction of changes in protein-protein binding affinity on mutations of DLC-1	F-2018
51.	Fozia Tariq	<i>In silico</i> investigation of NANOG expression in breast cancer	F-2018
52.	Zainad Bashir	<i>In silico</i> studies of snake venom toxins against lungs cancer	F-2018
53.	Assad ullah	<i>In silico</i> drug designing for hepatocellular carcinoma	S-2018
54.	Awais Khan	Comparative analysis of ATM, FLCN, SDHB, TBJ3, MDM4 genes, their interaction and role in kidney cancer	S-2018
55.	Azeem Gul	Structure based computer aided drug designing for disease targets	S-2018
56.	Basharat Ahmad	ATM network analysis to identify drug target in glioblastoma cancer	S-2018
57.	Chamman Waseem	<i>In silico</i> analysis of muc1 network contribution in lung cancer	S-2018
58.	Ghazanfar Ali	Genetic diversity of cytochrome-b of <i>Bos taurus</i> using statistical methods	S-2018
59.	Hajra Khalid	<i>In silico</i> investigation of DNMT1 network contribution in gastric cancer	S-2018
60.	Hamza Rafique	Identification of differentially expressed genes in rice organs using digital differential display server	S-2018
61.	Mehwish Bibi	The evolutionary dynamics of Helitron superfamily of DNA transposons	S-2018
62.	Mudasir Ali	The comparative and evolutionary genomics of Crypton superfamily of DNA transposons	S-2018

63.	Muhammad Umair Khan	Diversification and evolutionary genomics of Polinton superfamily of DNA transposons	S-2018
64.	Muhammad Usman	Exploring the potential of different inhibitors against the binding site of $il1\beta$	S-2018
65.	Muntazir Imam Naqvi	Genetic diversity of mitochondrial ND2-NADH gene sequence of <i>Bos taurus</i> at different locus	S-2018
66.	Naveed Ahmad	Computational analysis of EGFR, KRAS, MET, BRAF, ROS1, their mediated interactions and role in lung cancer	S-2018
67.	Nazish Jabeen	<i>In silico</i> analysis of <i>gcnt1</i> network contribution in prostate cancer	S-2018
68.	Saba Khalid	Identification of inhibitor against zika virus NS3 helicase	S-2018
69.	Sana Malik	<i>In silico</i> molecular docking studies and design of parkinson disease inhibitor	S-2018
70.	Sapna Harmain	<i>In silico</i> doxorubicin mediated signalling network analysis in gastric cancer	S-2018
71.	Syed Umair Ahmad	<i>In silico</i> investigation of EGFR network in kidney cancer for drug discovery	S-2018
72.	Tabarak Hussain Shah	Evolutionary genomics of Piggybec superfamily of DNA transposons	S-2018
73.	Uroosa Shah	<i>In silico</i> investigation of BRACA1 network contribution in breast cancer	S-2018
74.	Zain ul Abideen	From reads to genes to pathways: differential expression analysis of cancer biomarker genes using digital differential display	S-2018
75.	Lidiya	Molecular characterization of Transposable Elements in Homeologous <i>Brassica</i> BACs sequences	2011
76.	Steven	Dotplot Characterization of Transposable Elements in <i>Brassica</i> genomes	2011

#### **INTERNATIONAL CONFERENCES/WORKSHOPS ORGANIZED:**

1. Organized as Patron/Chief Organizer “Fourth International Conference on Emerging Trends in Bioinformatics and Biological Sciences (ICETBB-2022)” on September 15-17, 2022 at Hazara University, Mansehra, Pakistan.
2. Organized/Chaired International Conference held on 15-16 February, 2017 on Emerging Research for Sustainable Economic Development (ERSED-2017) at Dubai, UAE.
3. Organized/Chaired International Conference (01-03 August, 2016) on Emerging Trends in Multidisciplinary Research (ETMR-2016) in collaboration with KS Global Research in Bangkok, Thailand.
4. Organized/Chaired the conference at International Conference (16-18 May, 2016) on Emerging Research in Sciences and Humanities (ERSH-2016) at Kuala Lumpur, Malaysia.
5. Organized/chaired the conference at International Conference (2-3 Feb, 2016) on Emerging Research for Sustainable Economic Development (ERSED-2016) at Dubai, UAE.
6. Co-Organized International Conference on Emerging Trends in Multidisciplinary Research (ETMR-2015) in collaboration with KS Global Research and Eskisehir Osmangazi University, Turkey.

#### **NATIONAL CONFERENCES/WORKSHOPS ORGANIZED:**

1. Organized five days training workshop on “Digitization of Herberia for Biodiversity Research and Data Mobilization” as organizer on October 20-24, 2022 at Hazara University Mansehra, Pakistan.
2. Organized two days training workshop on “Genetic and Genomic Approaches for Wheat Production Enhancement” as organizer on March 02-03, 2022, at Hazara University Mansehra, Pakistan.
3. Organized Third National Conference on Emerging Trends in Bioinformatics and Biological Sciences (NCETBB-19) as Chief Organizer on October 03-05, 2019 at Hazara University, Mansehra, Pakistan.
4. Organized Second National Conference on Emerging Trends in Bioinformatics and Biological Sciences as Chief Organizer on August 09-11, 2018 at Hazara University, Mansehra, Pakistan.
5. Organized First National Conference on Emerging Trends in Bioinformatics and Biological Sciences held on 20-22 July, 2017 as Chief Organizer at Hazara University, Mansehra, Pakistan.
6. Organized “Training Course on Utilization of DNA Technology in Plant Improvement” at Department of Genetics, Hazara University Mansehra, Pakistan on May 22-26, 2007.
7. Organized “Teachers Training Workshop on Plant Taxonomy” at Department of Botany, Hazara University, Mansehra, Pakistan on April 16-21, 2007.
8. Organized 1st National Conference on “Cultural and Biological Resources of Pakistan” at Baragali Summer Campus, August 23-25, 2006.
9. Organized 3-Days Workshop on “Role of English in the Success and Development of Students” March 20-22, 2005 at Al-Arqam College of Excellence, Havelian, Abbottabad, Pakistan.

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**INTERNATIONAL CONFERENCE ATTENDED/PRESENTED:**

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1. Attended as Co-Chair/Invited Speaker in the “1st International Conference on Revamped Scientific Outlook of 21<sup>st</sup> Century” on October 12, 2022 at Women University Rawalpindi, Pakistan.
2. Attended the “2<sup>nd</sup> International Conference on Mental Health & Substance Use Challenges” on October 10, 2022 at Hazara University Mansehra, Pakistan.
3. Presented on “The diversification and evolutionary dynamics of transposable elements in diploid & polyploid Brassica crops” in PeP2021 Polyploidy and Evolution in Plants Symposium on September 11-13, 2021 at South China Botanical Garden, Guangzhou, China.
4. Presented on “Identification and characterization of mobile genetic elements LINEs from Brassica genome” in International Conference on Material Science and Engineering scheduled at Mercure Rome Leonardo Da Vinci, Rome, Italy from June 21 - 23, 2021.
5. The Evolutionary genomics of Mobile DNA Elements in Plant genomes at International Conference (01-03 August, 2016) on Emerging Trends in Multidisciplinary Research (ETMR-2016) in Bangkok, Thailand.
6. Diversification and evolutionary genomics of Transposable elements in *Brassica* genome at International Conference (16-18 May, 2016) on Emerging Research in Sciences and Humanities (ERSH-2016) at Kuala Lumpur, Malaysia.
7. Attended annual meetings of UK-*Brassica* Research Community Annual Meeting at Norwich Research Centre, United Kingdom on 17 April, 2012.
8. Comparative Analysis of *Brassica* Sequences Showed Transposable Elements as Major Contributors to Genome Evolution and Diversity in International SEB Annual Meeting in Glasgow, Scotland from 1-4 July, 2011.
9. Attended annual meetings of UK-*Brassica* Research Community Annual Meeting at Crop Science Division at Nottingham University, United Kingdom on 17 May, 2011.
10. Molecular Characterization and Evolutionary Activity of Transposable Elements in Diploid and Polyploid *Musa* and *Brassica* Genomes in International SEB Annual Meeting in Prague, Czech Republic from 29<sup>th</sup> June-4<sup>th</sup> July, 2010.
11. Characterization of Insertion-Gap Pairs in Homoeologous Genomic sequences from *Brassica* A and C Genomes in UK-*Brassica* Research Community Annual Meeting at Rothemsted Research, Conference Centre, Rothemsted United Kingdom on 7<sup>th</sup> May, 2010.
12. Genetic Diversity, Molecular Characterization and Evolutionary Activity of Transposable Elements in *Musa* and *Brassica* Genomes in Department of Biology, University of Leicester, UK on 28<sup>th</sup> April, 2010.
13. Review on The CACTA transposon Bot1 played a major role in *Brassica* genome divergence and gene proliferation in Department of Biology, University of Leicester, UK in 7<sup>th</sup> July, 2009.
14. Attended and presented research work in International SEB Annual main meeting in Prague, Czech Republic from 29<sup>th</sup> June-4<sup>th</sup> July, 2010.
15. Attended and presented research work in UK-*Brassica* Research Community Annual Meeting at Rothemsted Research, Conference Centre, Rothemsted United Kingdom on 7<sup>th</sup> May, 2010.
16. Participated in UK-*Brassica* Research Community Annual Meeting at John Innes Centre, Norwich Research Park, Colney, Norwich, United Kingdom on 7<sup>th</sup> May, 2009.
17. Attended UK-*Brassica* Research Community Annual Meeting at WHRI, Wellesbourne, United Kingdom on 21<sup>st</sup> May, 2008.

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**NATIONAL CONFERENCE ATTENDED/PRESENTED:**

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1. Attended and presented on “Applications of Bioinformatics Softwares in Genome Analysis” in Third National Conference on Emerging Trends in Bioinformatics and Biological Sciences (NCETBB-19) on October 03-05, 2019 at Hazara University, Mansehra, Pakistan.
2. Attended and presented on “The Genome Organization and Evolutionary Dynamics of Mobile Genetic Elements in *Brassica* Genomes” at 3 days 7<sup>th</sup> International and 16<sup>th</sup> National Conference on Plant Resources, Current Trends, Challenges and Solutions arranged by Pakistan Botanical Society at Islamia College University Peshawar on March 23-25, 2018.
3. Characterization and Evolutionary Genomics of LTR Retrotransposons in *Brassica* at International Conference in Biochemistry and Molecular Biology at COMSATS Abbottabad from 26-28 August, 2016.



4. Transposable Elements (Jumping Genes) Contributing to Crops Genome Evolution at Baragali Summer Campus, University of Peshawar on 29 June, 2013.
5. Attended one day conference on “Funding Opportunities for Research and Commercialization with DoST” organized by Directorate of Research & Technology Peshawar on 8 October, 2013.
6. Attended conference on “Importance of Environmental Impact Assessment with respect to Environmental Issues in Hazara Division” on October 3-4, 2013 in Mansehra Pakistan.
7. Attended and presented research work in conference at Baragali Summer Campus, organized by University of Peshawar, Pakistan on 27-29 June, 2013.
8. Attended and presented research work in 1<sup>st</sup> International conference on Emerging Trends in Bioinformatics and Computational Biology organized by Muhammad Ali Jinnah University, Rawalpindi Pakistan on 25 May, 2013.
9. Attended 2nd International Conference on “Research, Development and Emerging Technologies” May 29-30, 2007 at Higher Education Commission of Pakistan.
10. Attended International Conference “Biological Resources of Pakistan: Problems, Success and Future Perspectives” April 25-27, 2007 at University of Arid Agriculture, Rawalpindi, Pakistan.
11. Attended International Workshop “Allelopathy-Current Trends & Future Applications” March 18-21, 2007, in Department of Agronomy, University of Agriculture, Faisalabad, Pakistan.
12. Attended “Staff Development Course” February 12 to March 16, 2007 at Hazara University Mansehra, Pakistan organized by Higher Education Commission of Pakistan.
13. Attended HEC workshop on “Training of Trainers in Plant Biodiversity” November 23-25, 2006 at Centre of Plant Biodiversity, University of Peshawar, Pakistan.
14. Attended “National Symposium on Biotechnology for Economic Prosperity” July 24-26, 2006 at Nathiagali organized by National Commission on Biotechnology of Pakistan.
15. Attended National Conference on “Religion, Science and the Future of Humanity” September 18-20, 2004 organized by Hazara Society for Science-Religion Dialogue Mansehra, Pakistan.
16. In-Vitro Conservation of Medicinal Plant Resources: Response of Black Cumin (*Nigella sativa* L.) at 1st National Conference on Cultural and Biological Resources of Pakistan in August 2006 at Baragali Summer Campus, Pakistan.

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#### **WORKSHOPS/TRAININGS ATTENDED:**

1. Organized/ Participated in One Day workshop Development of Digital Herberia: A Step to Strengthen Institutional Capacity in Biodiversity Data Mobilization” on October 14, 2021 organized by Department of Botany Hazara University Mansehra, Pakistan.
2. Participated in 2 days hands on training workshop entitled “Next Generation Sequencing (NGS) Data Analysis” on 15-16 March, 2022 organized by COMSATS University, Islamabad, Pakistan.
3. Participated in 3 days hands on training workshop entitled “Data analysis and Machine Learning” on 08-10 February, 2022 organized by COMSATS University, Islamabad, Pakistan.
4. Participated in 3 days training workshop entitled “Next Generation Sequencing (NGS) Data Analysis” on November 14-16, 2018 organized by Next Generation Sequencing and PASTIC, Islamabad, Pakistan.
5. Participated in 2 days training on National Youth Conference/training on July, 11-12, 2018 at Serina Hotel Islamabad organized by NACTA and HEC, Pakistan.
6. Participated in 2 days training of Presiding Officers for General Elections-2108 organized by Election Commission of Pakistan on July 04-05, 2018.
7. Participated in 2 days training on “Development of Effective and Efficient Career Counselling Centre” on April 20-21, 2017 at Institute of Management Sciences, Peshawar organized by IM Sciences Peshawar and HEC Islamabad, Pakistan.
8. Participated in 1 day training on “Performance Evaluation Assessment/ACR” on Feb 17, 2016 at Hazara University Mansehra organized by Hazara University and HEC Islamabad, Pakistan.
9. Participated in 2 days training on “Khyber Pakhtunkhwa Procurement of Rules for Goods, Work and Services Rules 2014” on Feb 10-12, 2016 at Hazara University Mansehra organized by Hazara University and PPRA KP, Pakistan.

10. Participated in 2 days training on “The Khyber Pakhtunkhwa Public Procurement Regulatory Act 2012” on Feb 10-12, 2016 at Hazara University Mansehra organized by Hazara University and PPRA KP, Pakistan.
11. Attended 6<sup>th</sup> one day workshop on Impact of Bioinformatics in Life Sciences organized by Department of Bioinformatics, Mohammad Ali Jinnah University, Islamabad Pakistan on May 09, 2015.
12. Participated in “Training on Developing and Assessing Proposals” on May 15-16, 2015 at Islamabad, Pakistan organized by Higher Education Commission, Pakistan.
13. Participated in “SKIM Training and Consultancy” on March 17-19, 2015 at Hazara University Mansehra organized by Hazara University and HEC Islamabad, Pakistan.

#### **2010:**

14. Decision Making in Career Management on 02-06-10 at University of Leicester, UK.
15. Advanced microscopy & Bioimaging on 21-04-10 at University of Leicester, UK.
16. Chromosome analysis: Molecular Cytogenetics on 28-03-10 at University of Leicester, UK.
17. DNA sequence compilation & analysis on 24-03-10 at University of Leicester, UK.
18. DNA sequencing and genomics: services on 22-03-10 at University of Leicester, UK.
19. Microarray Technologies on 19-03-10 at University of Leicester, UK.
20. DNA Bioinformatics: Linux, ULTRA, EMBOSS and more on 18-03-10 at University of Leicester, UK.
21. Advanced database searching & bibliographic software: use of ENDNOTE on 16-03-10 at University of Leicester, UK.
22. General Presentation Skills on 22-02-10 at University of Leicester, UK.
23. Improving your MS PowerPoint presentations on 04-02-10 at University of Leicester, UK.
24. Off to a conference? Posters and preparation on 02-02-10 at University of Leicester, UK.
25. Giving research seminars and conference talks on 29-01-10 at University of Leicester, UK.
26. Experimental design & practical statistics on 26-01-10 at University of Leicester, UK.
27. Essential Writing Skills on 22-01-10 at University of Leicester, UK.
28. Writing up your research for publication on 18-01-10 at University of Leicester, UK.
29. College of Medicine, Biological Sciences and Physiology Postgraduate Careers Symposium on 15-01-10 at University of Leicester, UK.

#### **2009:**

30. Creativity and Problem-Solving Workshop on 18-05-09 at University of Leicester, UK.
31. Research Workshop: Advanced Microscopy on 20-03-09 at University of Leicester, UK.
32. Preparing for APG Assessment on 17-03-09 at University of Leicester, UK.
33. Use of MS Word for Long Documents on 11-03-09 at University of Leicester, UK.
34. Advanced Database Searching; Bibliographic software & keeping up to date; use of REFWORKS for Biomedical scientists on 10-03-09 at University of Leicester, UK.
35. General Presentation Skills on 06-03-09 at University of Leicester, UK.
36. Off to a Conference? Posters and How to prepare them. On 04-03-09 at University of Leicester, UK.
37. Advanced Database Searching; Bibliographic software & keeping up to date; use of ENDNOTE for Biomedical scientists on 03-03-09 at University of Leicester, UK.
38. Working with others: team work and leadership on 26-02-09 at University of Leicester, UK.
39. Festival of Postgraduate Research: Information Session on 16-02-09 at University of Leicester, UK.
40. Improving Power Point Presentations on 12-02-09 at University of Leicester, UK.
41. Giving Research Seminars & Conference Talks on 03-02-09 at University of Leicester, UK.
42. Demonstrating and teaching skills on 28-01-09 at University of Leicester, UK.

#### **2007:**

43. Attended 40 days Staff Development Course organized by National Academy of Higher Education, Pakistan at Hazara University, Mansehra on February-March, 2007.

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#### **SEMINARS PRESENTED:**

1. Seminar given on “Transposable Elements (Jumping Genes); Characterization and Evolutionary Impact on Genomes” at Institute of Biomedical & Genetic Engineering (IBGE), Islamabad, Pakistan on 20 January 2014.

2. Transposable elements (Jumping Genes), their Evolutionary Activity, Stability and Mobility in Diploid and Polyploid Crops – *Musa* and *Brassica* at Department of Biology, University of Leicester, UK on 18<sup>th</sup> March, 2009.

### **SEMINARS ATTENDED:**

#### **2008:**

- ✳ “Defining the Foraging Niche of Fish” by Professor Paul Hart, University of Leicester, UK on May 7, 2008.
- ✳ “How the Plants Make Twin Sperms Cells” by Hoda Khatab, University of Leicester, UK on May 14, 2008.
- ✳ “The Arabidopsis SPI Gene Defines an Ubiquitin Proteasome Pathway That Regulate Chloroplast Protein Translocase” by Dr. Weihua Huang, Research fellow from China on May 21, 2008.
- ✳ “The Effects of Damming on the Morphology Parasitology and Behaviour of Three-Spined Stickleback” by Tia Nettleship, University of Leicester, UK on May 28, 2008.
- ✳ “Methylation and Genomic Imprinting in the Bumblebee, *Bombus Terrestris*” by Professor Paul Hart, University of Leicester, UK on May 28, 2008.
- ✳ “The Role of Nitric Oxide during the Development of the Zebra fish Nervous system” by Sophie Bradley, University of Leicester, UK on June 4, 2008.
- ✳ “The Combined Effect of Parasites and Endocrine-Disrupting Pollutants on Growth, Sexual Development and Behaviour in the three-Spined Stickleback” by Vicki Macnab, University of Leicester, UK on June 4, 2008.
- ✳ “Neuronal Control of Aimed Limb Movements in an Insect” by Dr. T. Matheson, Senior Lecturer University of Leicester, UK on June 11, 2008.
- ✳ “Exploring Natural Variation: *Brachypodium distachyon*” by Dr. Magdalena Opanowicz, John Innes Research Centre, Norwich, UK on June 16, 2008.
- ✳ “The benefits and Mechanisms of female Mate Choice in the Rose Bitterling (*Rodeus ocellatus*)” by Muna Agbali, University of Leicester, UK on June 18, 2008.
- ✳ “DUO1-Keeping the Mix Tight” by Michael Borg, University of Leicester, UK on June 18, 2008.
- ✳ on ‘The Search for Extra Terrestrial Life’ by Professor Martin Barstow Head Department of Physics and Astronomy, University of Leicester, UK, on April, 16, 2008.

### **COUNTRIES VISITED FOR RESEARCH AND TOURISM**

S. No.	Name of Country	Duration	Purpose of Visit
1.	United Kingdom	4.8 years	For PhD and Post-doctoral studies and experience
2.	Scotland	10 days	To attend the international conference and paper presentation
3.	Czech Republic	5 days	To attend the international conference and paper presentation
4.	Germany	4 days	To work for joint research publication. For tour purpose
5.	France	3 days	For tour purpose. To gain experience of various cultures and their education system
6.	Switzerland	3 days	
7.	Italy	3 days	
8.	Austria	1 day	
9.	Germany	2 days	
10.	Holland	2 days	
11.	Belgium	1 day	
12.	Spain	7 days	
13.	Poland	10 days	Visited for research collaborations
14.	Belarus	1 day	For tour purpose
15.	Sweden	5 days	For tour purpose
16.	Turkey	5 days	To organize an International Conference + Paper presentation
17.	UAE	10 days	To organize an International Conference + Paper presentation
18.	Malaysia	8 days	To organize an International Conference + Paper presentation

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## **PROGRAMS/EVENTS/SEMINARS ORGANIZED AS DIRECTOR STUDENT AFFAIRS**

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As a Director Student Affairs, arranged thousands (1000s) of programs, events, seminars, workshops, trainings, competitions etc. since April 2014 to date. The students under my Directorship won several competitions at Provincial and National levels.

- Programs
- Seminars
- Workshops
- Awareness seminars
- Art and Science Exhibitions
- Health and environment events
- International days celebrations
- National days celebrations
- Welfare and relief programs
- Walks and rallies
- Blood donations and health related camps
- Speech and Debating Competitions
- Qirat and Naat Competitions
- Essay Writing Competitions
- Art and Painting Competitions
- Poetry and Bait bazi Competitions
- Adventure and Hiking Competitions
- Marathon and Sports competitions
- Science model competitions
- Research models and poster competitions
- Thematic art competitions
- Participated in various National competitions

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## **OTHER IMPORTANT CONTRIBUTIONS:**

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### **Establishment of Department of Bioinformatics:**

In order to build National capabilities in the latest applied biological sciences, especially Bioinformatics, Dr. Faisal Nouroz submitted a proposal for the establishment of Department of Bioinformatics in the start of 2014, which was highly appreciated by the Academic Council of the University. He struggled a lot to establish the department and succeeded in its establishment. The first meeting of Board of Study was held on August 19, 2014, where the curriculum for BS, M.Phil and PhD programs of Bioinformatics were approved under the headship of Dr. Faisal Nouroz. On December 05, 2014, the Academic Council of Hazara University approved the establishment of Department of Bioinformatics in its 11<sup>th</sup> meeting of ASRB. The Syndicate of Hazara University in its 30<sup>th</sup> meeting held on September 18, 2015 approved the establishment of the Department.

### **Establishment of Directorate/Office of Student Affairs:**

As the assets of the University, the students play a prime role in its development by their contributions in various fields. The mission of University faculty and administration is to provide important services necessary for student's personal growth and learning through their involvement in curricular and co-curricular activities. To cope all these needs, a proposal was submitted by Dr. Faisal Nouroz in March 2014 to establish Directorate of Student Affairs along with approval of 20 active student societies in March, 2014. Dr. Faisal Nouroz was appointed as Director Student Affairs in April, 2014. After that he has arranged 1000s of various events such as Qirat, Naat, Debates, Speeches, Essay writing, Quiz, Bait Bazi, Painting, Sketching, Thematic Art, Poetry, Hiking, Sports competitions, Rallies and walks, various seminars, workshops, trainings and Science exhibitions for university students. He introduced several National and International organizations and NGOs and MoU were signed between both Hazara University Mansehra and other organizations.

### **Role in promotion of Education in rural areas of Pakistan**

The mission of Higher Education Commission of Pakistan was to bring every child to school in 2016. A programme was launched by HEC to bring outreach children to schools and provide them the fees and books. To accomplish the mission of HEC and Govt. of Pakistan, Dr. Faisal Nouroz and his students from various societies visited the rural area of District Mansehra, District Abbottabad and District Battagram and convinced more than 250 parents to bring their children to schools.

### **Provision of Research culture and formation of Research group**

In 2015, the M.Phil students from Department of Bioinformatics were provided with a culture of research and innovation after several trainings and workshops. A research group was formulated, who worked hard and with their help, Dr. Faisal Nouroz published around 26 research papers in 2015.

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**CONTACTS:**

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**REFERENCES:**

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## Dr. Faisal Nouroz Biography

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Dr. Faisal Nouroz was born in District Abbottabad, Pakistan. He received his Master's in Botany from University of Peshawar, Pakistan in 2001. He completed his M.Phil in Plant Physiology and Biotechnology from Quaid-i-Azam University Islamabad, Pakistan in 2004. He joined Hazara University in 2005 as Lecturer in Botany. He won a HEC scholarship and left for University of Leicester, UK in March, 2008 for his Ph.D. He joined the most reputed Molecular Cytogenetics & Bioinformatics laboratory of University of Leicester, UK under the supervision of well-known researcher Professor Dr. J.S. (Pat) Heslop-Harrison. During his Ph.D, he worked on the Characterization and Evolutionary Genetics of various Transposable Elements in Diploid and Polyploid *Brassica* and *Musa* crops genomes by exploiting various Bioinformatics, Molecular & Cytogenetics approaches. During his Ph.D, he presented his research work in several National and International Conferences held in various European and Asian countries. After completion of his Ph.D, he gained a Post-Doctoral fellowship from University of Leicester in Molecular Genetics and Bioinformatics. After completion of his Post-Doctoral experience, he re-joined Department of Botany in 2012. He established Department of Bioinformatics in February 2014 and was appointed as founder Head of Department. Due to his experience in co-curricular activities, he was given additional charge as Director Student's Affairs, Hazara University Mansehra, Pakistan. Currently, Dr. Faisal Nouroz is serving as Chairman, Department of Bioinformatics and supervising several M.Phil and Ph.D students in the field of Bioinformatics, Molecular and Plant Genetics. Associated with his research students at Hazara University and collaboration at University of Leicester, UK and several other international and national research institutions/organizations, he is working to explore various Transposable Elements superfamilies in various crops with the help of bioinformatics, molecular and cytogenetic techniques. His field of interest are Molecular Genetics/Biology, Genomics, Bioinformatics, Evolutionary Genetics and Plant Physiology. In addition, he is executive and general member of several societies and forums. He organized international conferences in various countries like UK, Dubai (UAE), Turkey, Thailand, Malaysia and Pakistan. In addition, he participated and presented his research work in several international conference in UK, Scotland, France, Germany, Check Republic, Poland, Turkey, UAE, and Malaysia. He was granted awards as 'Best Teacher', 'Best Researcher' by different organizations. He received several awards, shields, gold medal and appreciation letters on National and International levels. He is an active member of several societies and organizations.

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