

# C.V.

**Dr. SYED SHAKEEL SHAH**

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## 1. PERSONAL INFORMATION:

**Permanent Address** : Madina Syedan, Gandra Road, Gujrat.  
**C.N.I.C. No.** : 34201-0153704-7  
**Domicile** : Gujrat (Punjab), Pakistan  
**Marital Status** : Married

## 2. EDUCATION:

| Degree  | Board/ University                                     | Passing Year | Subject                    |
|---------|---|--------------|----------------------------|
| Ph.D.   | University of the Punjab, Lahore                      | 2024         | Zoology                    |
| M.Phil. | University of Veterinary and Animal Sciences, Lahore. | 2013         | Parasitology               |
| M.Sc.   | University of the Punjab, Lahore                      | 2010         | Zoology                    |
| B.Sc.   | University of Gujrat                                  | 2008         | Zoology, Botany, Chemistry |
| F.Sc.   | B.I.S.E Gujranwala                                    | 2006         | Pre-Medical                |
| Matric  | B.I.S.E Gujranwala                                    | 2003         | Science                    |

### 3.1. TITLE OF THESIS OF PH.D. DEGREE:

“PREVALENCE OF *ACE1* AND *KDR* MUTATIONS IN PYRETHROID RESISTANT POPULATIONS OF *CULEX QUINQUEFASCIATUS* MOSQUITOES IN PUNJAB, PAKISTAN.”

### 3.2. TITLE OF THESIS OF M.PHIL. DEGREE:

“VECTOR BIOLOGY OF *AEDES* AND *CULEX* AND THEIR ROLE IN DISSEMINATION OF DENGUE VIRUS”

#### 4. TEACHING EXPERIENCE:

| Institution                                      | Position Held                            | Period     |            |
|--|--|------------|------------|
|  |  | From       | To         |
| University of Narowal,<br>Narowal                | Associate Lecturer<br>(BPS-17) Permanent | 23.12.2024 | Till date  |
| University of Narowal,<br>Narowal                | Associate Lecturer<br>(BPS-17) Contract  | 19.04.2018 | 07.12.2022 |
| University of Gujrat, Sub-<br>campus Narowal     | Associate Lecturer<br>(BPS-17) Contract  | 04.04.2016 | 18.04.2018 |
| University of Gujrat, Gujrat.                    | Visiting Lecturer Zoology                | 22.09.2014 | 31.03.2016 |
| Jinnah College of Education,<br>Gujrat           | Lecturer Zoology                         | 15.09.2014 | 14.09.2016 |
| Govt. College of Science,<br>Wahdat Road Lahore. | C.T.I. (Lecturer) Zoology                | 01.10.2013 | 31.05.2014 |

#### 5. OTHER PROFESSIONAL EXPERIENCES:

- **Focal Person/ Secretary:** Higher Education Commission's (HEC) Green Youth Movement (GYM), University of Narowal, Pakistan.
- **Assistant Director:** University Development Office (UDO), University of Narowal, Pakistan.
- **Focal Person:** HEC Interim Placement of Fresh PhDs (IPFP), University of Narowal, Pakistan.
- **Lab In-Charge:** Department of Zoology, University of Narowal, Pakistan.
- **Research Officer (2022):** ORIC, University of Narowal, Pakistan.
- **Member Admission Committee: The Year** 2018, 2019, 2020, 2021, 2022

## **6. Areas of interest (Academics/ Research):**

- Molecular Docking/ Computer-Aided Drug Discovery/ Computational Vaccine Designing/ Networking Pharmacology
- Toxicity Prediction of Phytochemicals/ Insecticides
- Toxicology & Resistance Mechanisms

## **7. LABORATORY/ FIELD WORK SKILLS AND TECHNIQUES:**

All general laboratory techniques, protocols and instrumentations.

**Microbiological techniques** including isolation, purification and preservation of microbes

**Parasitological/entomological techniques:** insect bioassays, Immunological techniques, Entomological Survey, Larvae & Adult Mosquito Collection, Chemotherapeutical Techniques, Techniques for isolation, identification, purification & preservation of Ecto-Parasites and Endo-Parasites of medical and veterinary importance faecal and blood examination to diagnose parasites, larvae culture methods, micrometry, skin scrapping technique

**Molecular Biology:** DNA extraction, RNA extraction, PCR, Gel-electrophoresis, Gene sequencing

**CADD:** Molecular Docking, DFT analysis, Drug Discovery, ADMET analysis etc.

**Network Pharmacology:** Pharmacokinetic evaluation, Protein-Protein Interaction, etc.

**In-Silico Vaccine Design:** Epitope Prediction, 3D Structure Development, Epitope Conservancy and Homology, Vaccine Construct Design, etc.

## 8. RESEARCH SUPERVISION:

### 8.1. List of MPhil/ MS Research Students (as Supervisor):

Completed = 12

In-progress = 06

| Sr. No. | Student Name    | Regd. No.   | Thesis Title   |
|---------|-----------------|-------------|--|
| 1.      | Adeeba Batool   | 22-UON-1204 | Bioaccumulation of Heavy Metals (copper and nickel) in Mutton and their Potential Health Risks to Consumers in District Narowal  |
| 2.      | Afifa Amjad     | 22-UON-1205 | Ameliorative Effects of <i>Withania somnifera</i> Root Extract on Deltamethrin-Induced Hepatotoxicity in Mice  |
| 3.      | Aneeqa Majeed   | 22-UON-1208 | Protective Role of <i>Withania somnifera</i> Root Extracts Against Deltamethrin-Induced Toxicity in Reproductive Organs of Mice  |
| 4.      | Misbah Nazir    | 22-UON-1219 | Awareness, Attitude, Knowledge Assessment and Health Risk Associated with Heavy Metals in Fish From Narowal  |
| 5.      | Neelam Shehzadi | 22-UON-1220 | Level of Awareness and Assessment of Health Risk Associated with Heavy Metal Toxicity in the Chicken Meat in District Narowal  |
| 6.      | Saima Fatima    | 22-UON-1225 | Level of Awareness Among University Students and Health Risk Assessment of Heavy Metals in Beef Liver from District Narowal  |
| 7.      | Minahil Noor    | 23-UON-1414 | In Silico Molecular Docking and ADMET Profiling of <i>Phyllanthus emblica</i> (Indian Gooseberry) Phytochemicals Against the Juvenile Hormone Receptor Protein         |
| 8.      | Ayesha Munir    | 23-UON-1413 | ADMET Profiling and In Silico Evaluation of <i>Curcuma longa</i> Phytochemicals as Potential Inhibitors of Juvenile Hormone Binding Protein (5V13) in Culex Mosquitoes |
| 9.      | Rabia Munir     | 23-UON-1412 | Identification of Potential Culex Mosquito Juvenile Hormone Inhibitors from Phytochemicals of <i>Zingiber officinale</i> : In Silico Molecular Docking Approach        |

|     |                      |             |   |
|-----|----------------------|-------------|---|
| 10. | Maida Batool         | 23-UON-1421 | Molecular Docking and ADMET Analysis of Phytochemicals of Clove Against Juvenile Hormone of Mosquito  |
| 11. | Sawaira Shabbir      | 23-UON-1428 | Phytochemicals from <i>Allium sativum</i> as Potential Inhibitor of Juvenile Hormone in Culex Mosquitos: ADMET Analysis and In Silico Screening |
| 12. | Shiza Hanif          | 23-UON-1415 | Understanding Community Response to Malarian in Narowal: A Cross-sectional Kap Survey   |
| 13. | Aqsa Bibi            | 24-UON-1328 | In Progress   |
| 14. | Anoop Arshad         | 24-UON-1313 | In Progress   |
| 15. | Muzdalfa Asif        | 24-UON-1316 | In Progress   |
| 16. | Hafiza Ayesha Imtiaz | 24-UON-1324 | In Progress   |
| 17. | Shiza Mustafa        | 24-UON-1330 | In Progress   |
| 18. | Areeba Naz           | 24-UON-1309 | In Progress   |

## 8.2. List of MPhil/ MS Research Students (as Co-Supervisor):

**Completed = 06**

**In-progress = 04**

| Sr. No. | Student Name           | Regd. No.             | Thesis Title  | University Name       |
|---------|------------------------|-----------------------|---|-----------------------|
| 1.      | Fatima Batool          | USKT/2110402<br>4-175 | Evaluation of Larvicidal Efficacies of <i>Chrozophora tinctoria</i> and <i>Oxalis corniculata</i> Aqueous Extracts Against Culex Mosquito | University of Sialkot |
| 2.      | Amina Siddiqua         | USKT/2110402<br>4-138 | Comparative Efficacy of <i>Catharanthus roseus</i> and Phyla <i>Nodiflora</i> Weed Extracts Against Culex Mosquito                        | University of Sialkot |
| 3.      | Sumera Muhammad Arshad | USKT/2110402<br>4-167 | Synergistic Activity of a Mixture of Plant Extracts of <i>Bauhania vargieta</i> and <i>Azadirachta indica</i> Against Culex Mosquito      | University of Sialkot |

|     |               |                 |  |                          |
|-----|---------------|-----------------|--|--------------------------|
| 4.  | Sughra Yasin  | 22-UON-1231     | Renal Histopathology and Biochemical Analysis in Response to Deltamethrin Exposure and Therapeutic Potential of Ashwagandha ( <i>Withania somnifera</i> ) in Swiss Albino Mice | University of Narowal    |
| 5.  | Huma Rasheed  | 22-UON-1212     | Therapeutic Role of <i>Withania somnifera</i> Roots Extract Against Deltamethrin Induced Neurotoxicity, Weight and Hematological Alterations in Swiss Albino Mice              | University of Narowal    |
| 6.  | Samia Amjad   | PZOOOL-70149929 | Synergistic Effect of Lufenuron, Methyl Salicylate and Benzyl Acetate on Growth Development and Reproductive Inhibition in <i>Tribolium castaneum</i> Larva                    | The University of Lahore |
| 7.  | Saira Shahid  | 24-UON-1314     | In Progress  | University of Narowal    |
| 8.  | Ammara Bibi   | 24-UON-1318     | In Progress  | University of Narowal    |
| 9.  | Mehvish Khan  | 24-UON-1235     | In Progress  | University of Narowal    |
| 10. | Sumbul Arshad | 24-UON-1229     | In Progress  | University of Narowal    |

### 8.3. List of BS Research Students (as Supervisor):

Completed = 21

| Sr. No. | Student Name     | Registration No.      | Thesis Title   |
|---------|------------------|-----------------------|--|
| 1       | Salma Shehzadi   | 2016-BS-ZOO-UON-0007  | Evaluation of mosquito coil emission on the kidney of Rabbits: A Histopathological Study |
| 2       | Ali Tahir        | 2016-BS-ZOO-UON-00035 | A Study of Cholesterol Level Associated with Lipid Profile in District Narowal           |
| 3       | Ayesha Zahid Ali | 2016-BS-ZOO-UON-00012 | Histopathological Effects of Mortein (Mosquito Coil) on the Liver of Adult Rabbits       |
| 4       | Zonaira          | 2016-BS-ZOO-UON-00028 | A Study of Histopathological Effects of Mortein (Mosquito Coil) On The Gonads of Rabbits |
| 5       | Sumbal Zahoor    | 2016-BS-ZOO-UON-00021 | Histological evaluation of the mosquito coil emission on the lungs of Adult rabbits      |

|    |                       |                       |  |
|----|-----------------------|-----------------------|--|
| 6  | Ayesha Jameel         | 2017-BSE-ZOO-UON-0059 | Prevalence of Parasitic Contamination In Raw Vegetables In District Narowal, Pakistan  |
| 7  | Amna Aslam Butt       | 2017-BSE-ZOO-UON-0004 | Prevalence of Blood Parasites in Cattle and Buffaloes in District Narowal, Pakistan  |
| 8  | Ayesha Tanveer        | 2017-BSE-ZOO-UON-0009 | Prevalence of Blood Parasites in Sheep and Goats in Narowal District, Pakistan   |
| 9  | Muhammad Haseeb Usman | 2017-BS-ZOO-UON-0042  | A Study of Histopathological Effect of Cigarette Smoke on Liver of Female Rabbits  |
| 10 | Subhan Javed          | 2017-BS-ZOO-UON-0044  | Histopathological Effects of Different Cigarette Brands on the Lungs of Female Rabbits                                       |
| 11 | Sania Batool          | 2018-BS-ZOO-UON-0025  | Prevalence of helminthic parasites in ruminants in district Narowal, Pakistan  |
| 12 | Sibgha Haroon         | 2018-BS-ZOO-UON-0041  | Prevalence of brucellosis in ruminants in district Narowal, Pakistan   |
| 13 | Aleena Razzaq         | 2018-BS-ZOO-UON-0045  | Prevalence of mastitis in buffaloes and cows in district Narowal, Pakistan   |
| 14 | Aima Javed            | 2018-BS-ZOO-UON-0043  | Tick-borne parasitic diseases (TBPDs) in domestic ruminants in district Narowal, Pakistan                                    |
| 15 | Hira Javed            | 2018-BS-ZOO-UON-0051  | Prevalence of protozoan parasites in ruminants in district Narowal, Pakistan   |
| 16 | Saman Riaz            | 2018-BS-ZOO-UON-0074  | Prevalence of hepatitis B in district Narowal and Lahore, Pakistan   |
| 17 | Absara Mehak          | 21-UON-0739           | Molecular docking and ADMET analysis of phytochemicals of <i>Oxalis corniculata</i> as an inhibitor against juvenile hormone |
| 18 | Iman Fatima           | 21-UON-0758           | ADMET analysis and insilico screening of Phytochemical of <i>Chrozophora tinctoria</i> as inhibitor against 5V13.            |
| 19 | Maryam Shahid         | 21-UON-0769           | Molecular docking and ADMET analysis of phytochemicals of <i>Origanum majorana</i> as an inhibitor against juvenile hormone  |

|    |                        |             |   |
|----|------------------------|-------------|---|
| 20 | Saeeda Shaban<br>Mirza | 21-UON-0777 | Molecular docking and ADMET analysis of phytochemicals of <i>Catharanthus roseus</i> as an inhibitor against juvenile hormone |
| 21 | Zuha Abbas             | 21-UON-0784 | Molecular docking and ADMET analysis of phytochemicals of <i>Bauhinia variegata</i> as an inhibitor against juvenile hormone. |

## 9. LIST OF PUBLICATIONS OF DR. SYED SHAKEEL SHAH

1. Maqbool A., S. Masood., S. Ayaz and **S. Shah. 2012.** “Epidemiology, Zoonotic potential and Control of water borne parasitic diseases”. 3<sup>rd</sup> Annual Conference of Egyptian Parasitologists United, Oct 10-11, 2012 at Cairo, **Egypt.**
2. Maqbool A. and **S. Shah. 2012.** “Comparative efficacy of various indigenous and allopathic drugs against fasciolosis in buffaloes”. 3<sup>rd</sup> International Symposium on Medicinal Plants their cultivation and Aspects of uses, held during 21-23 Nov, 2012, Petra, **Jordan.**
3. Azhar Maqbool and **S. Shah. 2012.** “Epidemiology, Zoonotic potential Therapy and control of Ancylostomiasis in dogs”. Proceedings of BIT’s 2<sup>nd</sup> World Congress of Microbes held on July 30-Aug 1, 2012 at Guangzhou, **China.**
4. **S. Shah.,** Maqbool A., Zaman S., Idrees M., Anjum A. A., Afzal S., Fatima Z., Amin I. and Ahmad N. **2015.** “Biology Of *Aedes* And *Culex* And Their Role In Dissemination Of Dengue Virus”. **Pak. J. Zool.** 47 (1): 273-276. 01-May-2015 ISSN 0030-9923  
[https://zsp.com.pk/pdf47/269-285%20\(36\)%20SHORT%20COMMUNICATIONS%202015.pdf](https://zsp.com.pk/pdf47/269-285%20(36)%20SHORT%20COMMUNICATIONS%202015.pdf)
5. Afzal S., Maqbool A., Zaman S., Idrees M., Anjum A. A., **S. Shah.,** Fatima Z., Amin I. and Lateef M. **2015.** “Evidence of Transmission of Dengue Virus by Different Developmental Stages of Mosquitoes, *Aedes aegypti* and *Aedes albopictus*”. **Pak., J. Zoology.** 47 (3): 887-890. 01-Jun-2015 ISSN 0030-9923 <https://researcherslinks.com/journal/Pakistan-journal-of-zoology/20>
6. M. Irfan Zahid, Azhar Maqbool, S. Anjum, Kamran Ashraf, M.S. Khan, **Syed Shakeel Shah** and Sabila Afzal. **2016.** “Efficacy of Ivermectin Against Sarcoptic Mange In Camel”. **Pakistan J. Zool.,** vol. 48(1), pp. 301-302. 15-Jun-2015 ISSN 0030-9923
7. Tariq A., Afsheen S., Hussain M., Zia A., **S. Shah,** Afzal S., Khan I. and Hayat Y. **2017.** “Bioefficacy of plant powders against *Callosobruchus chinensis* L. (Coleoptera: Bruchidae) in infested chickpea grains”. **Asian J Agric & Biol.** 5(3):119-125. 30-Sep-2017 ISSN 2307-8553  
<https://www.asianjab.com/wp-content/uploads/2017/10/3-OA-AJAB-2017-05-042.pdf>

8. Sarwar A., Afsheen S., **S.Shah**, Afzal S., Zia A., Khan I. and Hayat Y. **2019**. "Potential of plant oils against *Callosobruchus maculatus* L". **Asian J Agric & Biol.** 7(2): 204-209. 30-Jun-2019 ISSN 2307-8553 <https://www.asianjab.com/wp-content/uploads/2019/06/5.-AJAB-2018-04-104.pdf>
9. Sabila Afzal, **Syed Shakeel Shah**, Soha, Aneeqa Majeed, Rabia Sajid, Adeela Shabbir, and Farwa Masood. **2022**. "Effects of Human-Pet Interaction; Zoonosis". **Pak Euro J Med & Life Sci.** 4 (1): S152-S161. [www.readersinsight.net/pjmls](http://www.readersinsight.net/pjmls) 28-Jun-2022 ISSN 2707-4471, 2707-448X
10. Maryam Riasat, Muhammad Babar Khawar, Ume Habiba, Ali Afzal, Sara Shahzaman, Syeda Esha Hamid, Suneela Aman, Mudassir Hassan Abbasi, Nadeem Sheikh, **Syed Shakeel Shah**, Muhammad Idnan, Aliza Tahir, Affa Jamil Butt, Sana Tanveer. **2022**. "Evaluation of trace elements in hemodialysis patients in Pakistan". **Asian Journal of Health Sciences**, 8(2):48. 19-Dec-2022 ISSN 2347-5218 <https://ajhs.biomedpress.org/index.php/ajhs/article/view/519/965>
11. Rasheed H, Khawar M B, Sohail A M, Aman S, Afzal A, Hamid S E, Shahzaman S, Abbasi M H, Sheikh N, **Shah S S**, Nawaz B, Tanveer S, Riasat M. **2022**. "Altered Hematological Parameters in HCV Infection: A Diagnostic Approach". **Asian J. Health Sci.**; 8(2):45. 30-Nov-2022 ISSN 2347-5218 <https://ajhs.biomedpress.org/index.php/ajhs/article/view/517>
12. Rasheed H, Khawar M B, Habiba U, Aman S, **Shah S S**, Afzal A, Hamid S E, Abbasi M H, Sheikh N, Rafiq M, Azam F, Mehmood R, Afzal N. **2022**. "Variations in Peripheral Hematological Parameters as a Diagnostic Biomarker of HBV Infection". **Asian J. Health Sci.**; 8(2):45. 30-Nov-2022 ISSN 2347-5218 [10.15419/ajhs.v8i2.516](https://ajhs.biomedpress.org/index.php/ajhs/article/view/516)
13. Nawaz B, Khawar M B, Afzal A, Aman S, Hamid S E, Abbasi M H, Sheikh N, **Shah S S**, Rafiq M, Azam F, Mehmood R. **2022**. "Neutrophil-to-lymphocyte ratio as a promising biomarker for the diagnosis of psoriasis in Pakistan.". **Biomed. Res. Ther.**; 9(9):5306-5312. 30-Sep-2022 ISSN 2198-4093 <https://bmrat.org/index.php/BMRAT/article/view/768>

14. Afifa Jamil Butt, Muhammad Babar Khawar, Ali Afzal, Asmat ullah Bhalli, Muhammad Abu Talha Safdar Hashmi<sup>2</sup> · Nimra Afzal, Syeda Eisha Hamid, Sara Shahzaman, Ume Habiba, **Syed Shakeel Shah**, 2023. “Neutrophil-to-Lymphocyte ratio and Monocyte-to-HDL ratio as a Biomarker of Urolithiasis” **Comparative Clinical Pathology**. 32(5):783-788. 17-Jun-2023 ISSN 1618-565X, 1618-5641 <https://doi.org/10.1007/s00580-023-03488-9>
15. **Shah, S. S.**, Butt, A., Afzal, S., Majeed, A., Amjad, A., & Butt, A. A. (2023). *Evaluation of Insecticide-Treated Nets against Cx. Quinquefasciatus Mosquitoes in Punjab, Pakistan*. **PJMLS**. 6(3): 261-268. 30-Sep-2023 ISSN: 2707-4471 <https://readersinsight.net/PJMLS/article/view/285>
16. **Syed Shakeel Shah**, Ayesha Jameel, Sabila Afzal, Muhammad Zubair, Iram Fatima Bokhari. 2023. Prevalence of Parasitic Contaminations in Raw Vegetables in District Narowal. **Biologia (Lahore)**, 69(1): 20-27. 28-Jun-2023 ISSN 2313-206X, 0006-3096 DOI: <https://dx.doi.org/10.17582/journal.Biologia/2023/69.1.20.27>
17. Sabila Afzal, Abida Butt, **Syed Shakeel Shah**, Muhammad Hamid Luqman. 2023. Geographical Distribution of Mosquitoes in Pakistan. **PJMLS**. 6(3): 386wi-386wxvi. <https://readersinsight.net/PJMLS/article/view/3040> \_DOI: 10.31580/pjmls.v6i3.3040 30-Sep-2023 ISSN 2707-4471, 2707-448X
18. Ahsan Mehtab, Muhammad Ashraf, **Syed Shakeel Shah**, Sabila Afzal, Aneeqa Majeed, Afifa Amjad. 2024. Adulticidal and Histopathological Efficacy of Deltamethrin and Cypermethrin against *Culex quinquefasciatus* in Shakargarh, Pakistan. **PJMLS**. 7(1): 39-48. <https://readersinsight.net/PJMLS/article/view/285> DOI: 10.31580/pjmls.v7i1.2873 31-Mar-2024 ISSN 2707-4471, 2707-448X

19. Sana Tanveer, Muhammad Babar Khawar, Suneela Aman, Ali Afzal, Amna Rehman, Sadia Ahmad, Muddasir Hassan Abbasi, Nadeem Sheikh, **Syed Shakeel Shah**, Afifa Jamil Butt, Mehreen Iftikhar, Maryam Riasat, Benish Nawaz, Fizza Azeem, Aliza Tahir, Huma Rasheed, Robina Kausar. **2024**. Overweight among Undergraduate Students in University of Narowal, Narowal, Pakistan: A Descriptive Cross-sectional Study. **UCP Journal of Science and Technology**. 2(1), 25-31 (July - December 2024). <https://ojs.ucp.edu.pk/index.php/ucpjst/article/view/429> 31 Dec 2024 ISSN Online 3005-5571
20. **Syed Shakeel Shah**, Hira Javed, Muhammad Azhar Shaheen, Sabila Afzal, Muhammad Asim Iqbal, Aneeqa Majeed, Afifa Amjad, Muhammad Haseeb Usman, Sumbal Arshad, Nayab. **2024**. Prevalence of Protozoan Parasites in Ruminants in district Narowal, Pakistan. **Annual Methodological Archive Research Review**. 2(6), 1-13. 05-Jun-2024 **P-ISSN: 3007-3189 E-ISSN: 3007-3197**
- <https://amresearchjournal.com/index.php/Journal/article/view/669/694>
21. **Syed Shakeel Shah**, Aima Javed, Muhammad Azhar Shaheen, Muhammad Asim Iqbal, Sabila Afzal, Aneeqa Majeed, Minahil Noor, Rabia Munir, Maida Batool. **2024**. Tick-Borne Parasitic Diseases in Domestic Ruminants in District Narowal, Pakistan. **Physical Education, Health and Social Sciences**. 2(4), 01–15 (October - December 2024). 30-Dec-2024 **E-ISSN: 2958-5996 P-ISSN: 2958-5988** <https://journal-of-social-education.org/index.php/Jorunal/article/view/746/791>
22. Sughra Yasin, Sabila Afzal, **Syed Shakeel Shah**, Hifza Waris, Iqra Tariq<sup>5</sup>, Saima Fatima<sup>6</sup>, Alia Akram, Tahira Ashraf, Rabia Afzal, Nadia Tahir. **2024**. Therapeutic Potential of Ashwagandha (*Withania somnifera*) against Renal Toxicity Induced by Deltamethrin in Swiss Albino Mice: A Biochemical Analysis. **Multidisciplinary Surgical Research Annals**. 2(4), 317-339. 26-Oct-2024 **E-ISSN: 3007-1941 P-ISSN: 3007-1933**
- <https://msrajournal.com/index.php/Journal/article/view/260/263>

23. **Syed Shakeel Shah**, Amna Aslam Butt, Sabila Afzal, Ayesha Tanveer, Muhammad Haseeb Usman, Maryam Shahid, Saeeda Shaban Mirza. **2024**. Prevalence of blood parasites in cattle and buffaloes in district Narowal Pakistan. **Annual Methodological Archive Research Review**. 2(6), 14-27. 30-Dec-2024 **P-ISSN: 3007-3189** **E-ISSN: 3007-3197**  
<https://amresearchjournal.com/index.php/Journal/article/view/992/1012>
24. **Syed Shakeel Shah**, Zonaira, Sabila Afzal, Sumbal Zahoor, Sumbal Arshad, Muhammad Haseeb Usman, Saeeda Shaban Mirza, Maryam Shahid. **2024**. Histopathological Effects of Pyrethroid-Based Mosquito Coil Smoke on the Reproductive Organs of Rabbits. **Pakistan Journal of Medical & Cardiological Review**. 20-Dec-2024 **ISSN Online 3007-2387** **Print 3007-2379** 3(4), 56-68. <https://pakjmcr.com/index.php/1/article/view/187>.
25. Huma Rasheed, Sabila Afzal, **Syed Shakeel Shah**, Benish Nawaz, Sana Tanveer, Mhreen Ifikhar, Aneeqa Habib, Tooba Abbas. **2025**. Therapeutic Role of *Withania somnifera* Roots Extract against Deltamethrin Induced Neurotoxicity, Weight and Hematological Alterations in Swiss Albino Mice. **Multidisciplinary Surgical Research Annals**. 3(1), 90-111. 21-Mar-2025 **E-ISSN: 3007-1941** **P-ISSN: 3007-1933** <https://msrajournal.com/index.php/Journal/article/view/263>
26. Hifza Waris, Sabila Afzal, **Syed Shakeel Shah**, Iqra Waris, Iqra Tariq, Saima Fatima, Sughra Yasin. **2025**. Species Composition and Diversity of Mosquitoes in District Narowal, Pakistan. **Physical Education, Health and Social Sciences**. 3(3), 577–592 (July - September, 2025). 17-Sep-2025 **E-ISSN: 2958-5996** **P-ISSN: 2958-5988**  
DOI: <https://doi.org/10.63163/jpehss.v3i3.668>
27. **Syed Shakeel Shah**, Sumbal Zahoor, Sabila Afzal, Nadia Tahir, Aqsa Malik, Sawaira Shabbir, Ayesha Munir. **2025**. Histopathological Evaluation of the Mosquito Coil Emissions on the Lungs of Adult Rabbits. **Pakistan Journal of Medical & Cardiological Review**. 4(2), 733-741. 19-Oct-2025 **ISSN Online 3007-2387** **Print 3007-2379**  
<https://pakjmcr.com/index.php/1/article/view/250>

28. Iqra Waris, Sabila Afzal, Syed Shakeel Shah, Saima Fatima, Sughra Yasin, Hifza Waris, Iqra Tariq. 2025. Spatial Analysis of Drinking Water Quality Index and Health Risk Assessment in District Narowal, Punjab, Pakistan. **Physical Education, Health and Social Sciences**. 3(3), 149–171 (July-September, 2025). 30-Sep-2025 **E-ISSN:** 2958-5996 **P-ISSN:** 2958-5988  
DOI: <https://journal-of-social-education.org/index.php/Jorunal/article/view/705>
29. Ashraf MA, Rehman A, Asif Z, Azam F, Arif A, Saleem S, Hamid SE, Ahmad S, Afzal H, **Shah SS**, Afzal A, Khawar MB. 2025. Prevalence of Byssinosis among Spinning Mill Workers: A Cross-Sectional Analysis in Faisalabad, Pakistan. **LGU Journal of Life Sciences**. 9 (02):48-54. 18-Sep-2024  
DOI: <https://doi.org/10.54692/lgujls.2025.92421> ISSN (Print): 2519-9404 ISSN (Online): 2521-0130
30. Sabila Afzal, Wizra Faiz, **Syed Shakeel Shah\***, Afifa Amjad, Aneeqa Majeed. 2025. Prevalence of Head Lice among School Children in Tehsil Shakargarh, Pakistan. **UCP Journal of Science and Technology**. 3(1) (July-December 2025). 13-Dec-2025 ISSN Online 3005-5571  
Journal website: <http://ojs.ucp.edu.pk/index.php/ucpjst/index>

**10. Professional Trainings/ Courses:**

| Sr. No. | Title of Training  | Host Institute                                  | Financed by   | Duration          |                   |
|---------|--|---|---------------|-------------------|-------------------|
|         |  |   |               | to                | From              |
| 1.      | QEC training   | UOG, Sub-campus Narowal                         | UOG           | 5/07/2017         | 5/07/2017         |
| 2.      | Faculty Development Training with Ms. Samia Kausar   | University of Narowal                           | UON           | 13 November, 2019 | 14 November, 2019 |
| 3.      | Online Training Sessions on Research Writing Skills with Elsevier                                  | University of Narowal                           | UON           | 2 April, 2020     | 10 April, 2020    |
| 4.      | Online Distance Learning Program with Tahir Chaudhary  | University of Narowal                           | UON           | 13 April, 2020    | 14 April, 2020    |
| 5.      | Online Faculty Development Program (Research impact and Research Excellence)                       | University of Narowal                           | UON           | 15 April, 2020    | 15 April, 2020    |
| 6.      | Online Faculty Development Program (Collaboration Framework and Social Impact with Tamkanat syeda) | University of Narowal                           | UON           | 20 April, 2020    | 21 April, 2020    |
| 7.      | Faculty Development Program/ Online Live Sessions with Dr. Muhammad Ijaz Ahmad                     | University of Narowal                           | UON           | 11 June, 2020     | 11 June, 2020     |
| 8.      | Faculty Development Program: Two online Sessions of Dr. Akhtar Abbas                               | University of Narowal                           | UON           | 15 June, 2020     | 16 June, 2020     |
| 9.      | Work Smarter with Microsoft Excel  | Microsoft                                       | HEC, Pakistan | -                 | 30 may, 2025      |
| 10.     | Drug Hunting: The Science of Making New Medicines by Novartis (Consists of 06 courses)             | Novartis/ Davidson College, North Carolina, USA | HEC, Pakistan | -                 | 30 may, 2025      |

**11.CONFERENCES/ WORKSHOPS ATTENDED:**

| <b>Sr. No.</b> | <b>Conferences/ Seminars/ Workshops</b>                                       | <b>Organizing University/ Institution</b>                        | <b>From</b>   | <b>To</b>     |
|----------------|---|--|---------------|---------------|
| 1.             | INTERNATIONAL 30 <sup>th</sup> PAKISTAN CONGRESS OF ZOOLOGY                   | University of Agriculture, Faisalabad.                           | 02 Mar, 2010  | 04 Mar, 2010  |
| 2.             | Workshop on the “PREVENTIONANDCONTROL OF DENGUE VECTORS”                      | Government College University, Lahore, Pakistan.                 | 05 Nov, 2012  | 09 Nov, 2012. |
| 3.             | INTERNATIONAL 34 <sup>th</sup> PAKISTAN CONGRESS OF ZOOLOGY                   | Bahauddin Zakariya University, Multan, Pakistan.                 | 25 Feb, 2014. | 27 Feb, 2014. |
| 4.             | BIOSAFETY TRAINING WORKSHOP FOR YOUNG SCIENTISTS                              | Department of Zoology, University of Gujrat, Sub-Campus Narowal. | 16 Aug, 2017. | 16 Aug, 2017. |
| 5              | PET SHOW  | University of Gujrat, sub-campus Narowal                         | 04 Apr, 2017. | 04 Apr, 2017. |
| 6              | Stored Grain Pest Management  | University of Narowal, Narowal                                   | 03 Sep, 2018  | 03 Sep, 2018  |
| 7              | WORKSHOP ON “BASICS OF GEOGRAPHIC INFORMATION SYSTEM”                         | University of Narowal, Narowal                                   | 31 Dec, 2018. | 01 Jan, 2019. |
| 8              | INTERNATIONAL SYMPOSIUM ON “INTEGRATED PEST MANAGEMENT FOR FOOD SAFETY”       | University of Punjab, Lahore and C-Shine group                   | 30 Jan, 2019. | 30 Jan, 2019. |
| 9              | 3 <sup>rd</sup> INTERNATIONAL CONFERENCE; EMPOWERING NATION THROUGH SCIENCES  | Women University Mardan  | 24 Apr, 2019. | 25 Apr, 2019. |
| 10             | ONE DAY TRAINING WORKSHOPN ON “SCIENTIFIC WRITING FOR IMPACT FACTOR JOURNALS” | University of Narowal, Narowal                                   | 19 Dec, 2019. | 19 Dec, 2019. |
| 11             | PETS AND FANCY BIRDS SHOW   | University of Narowal, Narowal                                   | 02 Mar, 2022  | 02 Mar, 2022  |
| 12             | ONE DAY SEMINAR ON “STRATEGIC PARASITIC CONTROL”                              | KBCMA college of Veterinary and Animal sciences, Narowal         | 30 Nov, 2023  | 30 Nov, 2023  |

## **12.PAPER/ABSTRACTPRESENTED/PUBLISHED ON CONFERENCES**

- **Syed Shakeel Shah**, Azhar Maqbool, Shakila Zaman, Muhammad Idrees, Aftab Ahmad Anjum, Sabila Afzal, Zareen Fatima, Irum Amin and Nisar Ahmad. “Vector Biology Of *Aedes* And *Culex* And Their Role In Dissemination Of Dengue Virus” at **International 34<sup>th</sup> Pakistan Congress Of Zoology on February 25-27, 2014**, Bahauddin Zakariya University, Multan, Pakistan.
- Sabila Afzal, Azhar Maqbool, Shakila Zaman, Muhammad Idrees, Aftab Ahmad Anjum, **Syed Shakeel Shah**, Zareen Fatima, Irum Amin and M. Latif. “Role of Different Developmental Stages of *Aedes* in Transmission of Dengue Virus” at **International 34<sup>th</sup> Pakistan Congress of Zoology on February 25-27, 2014**, Bahauddin Zakariya University, Multan, Pakistan.