

**DR. SABILA AFZAL**  
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**PERSONAL INFORMATION:**

**Postal Address:** Madina Syedan, Gujrat  
**C.N.I.C. No.** 34102-7304005-6  
**Domicile:** Gujranwala (Punjab), Pakistan  
**Marital Status:** Married  
**Religion:** Islam

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**EDUCATION:**

<b>Degree</b>	<b>Board/ University</b>	<b>Passing Year</b>	<b>Subject</b>
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 the Punjab, Lahore	2008	Zoology, Botany, Chemistry
F.Sc	B.I.S.E Gujranwala	2005	Physics, Chemistry, Biology
Matric	B.I.S.E Gujranwala	2002	Physics, Chemistry, Biology

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**TITLE OF THESIS OF PHD DEGREE:**

“MOLECULAR DIVERSITY AND GEOGRAPHICAL DISTRIBUTION OF MOSQUITOES IN PAKISTAN”

**TITLE OF THESIS OF M. PHIL DEGREE:**

“PREVALENCE OF DIFFERENT DEVELOPMENTAL STAGES OF *Aedes* MOSQUITOES AND THEIR ROLE IN TRANSMISSION OF DENGUE INFECTION”

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**TEACHING EXPERIENCE:**

Institution	Position Held	Period	
		From	To
University of Narowal, Narowal	Associate Lecturer (BPS-17)	Oct 2016	To Date
University of Gujrat, Gujrat.	Visiting Lecturer Zoology	Sep 2015	Oct 2016
Govt. College for Women, Gulberg, Lahore	Lecturer Zoology	Sep 2014	Mar 2015
Govt. post Graduate College for Women Kamoke	Lecturer Biology	Feb 2014	Jul 2014

**Areas of interest (Academics):**

- Parasitology
- Medical Entomology
- Molecular Biology

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## LABORATORY/FIELD WORK SKILLS AND TECHNIQUES:

All general laboratory techniques and instrumentation:

**Techniques in Molecular Biology & Microbiological Techniques:** DNA, RNA, and protein extraction and purification, Agarose and polyacrylamide gel electrophoresis (PAGE), Southern blot analysis, Northern & Western blot analysis.

Isolation, Purification, and Preservation Methods of Microbes. ELISA (Enzyme-Linked Immunosorbent Assay), PCR (polymerase chain reaction), Immunological techniques, IFA, AGPT.

**Techniques in Parasitology:** Collection, identification, and preservation methods of parasites (protists, helminths, and ecto parasites of medical and veterinary importance), faecal and blood examination to diagnose parasites, larvae culture methods, micrometry, skin scraping technique.

Entomological Survey, Collection of Larvae & Adult Mosquitoes.

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## RESEARCH SUPERVISION OF M. PHIL STUDENTS:

Sr. No.	Student Name	Year	Thesis Title
1	Roha Asif	Continue	Blood Based Gene Expression Profile of CTGF Gene as Biomarker in Chronic Hepatitis C Patients.
2	Isha Manzoor	Continue	Blood Based Gene Expression Profile of CCL5 Gene as Biomarker in Chronic Hepatitis C Patients.
3	Muhammad Haseeb Usman	Continue	Development of Nanoparticle-Based Biosensors for Biomedical use.
4	Hifza Waris	2024	Determination of Species Composition of Mosquitoes In District Narowal, Pakistan
5	Sughra Yasin,	2024	Renal Histopathology and biochemical analysis in Response to Deltamethrin Exposure: Evaluating the Therapeutic Potential of Ashwagandha ( <i>Withania somnifera</i> ) in Swiss Albino Mice
6	Huma Rasheed,	2024	Therapeutic Role of <i>Withania somnifera</i> (Ashwagandha) Roots Extract against Deltamethrin Induced Neurotoxicity, Neurobehavioral and Hematological Alterations in Swiss Albino Mice
7	Iqra Waris	2024	Spatial Analysis Of Drinking Water Quality Index and

			Health Risk Assessment in District Narowal, Punjab, Pakistan
8	Iqra Tariq	2024	Geospatial Assessment Of Irrigation Water Quality and Its Influence on Livestock Health in District Narowal, Pakistan

## RESEARCH SUPERVISION OF BS STUDENTS:

Sr. No.	Student Name	Year	Thesis Title
1	Fareeha Iftikhar	2020	Geographical Distribution Of Mosquitoes in Tehsil Shakargarh
2	Muntha	2020	Geographical Distribution Of Mosquitoes in Tehsil Zafarwal
3	Wizra Faiz	2021	Prevalence Of Head Lice Among School Children In Tehsil Shakargarh
4	Bisma	2021	A Study On The Prevalence Of Gastrointestinal Parasites in Large Ruminants, District Narowal, Pakistan.
5	Arisha Majeed	2021	Histopathological Effects of Cigarette Smoke on the Kidney of Female Rabbits
6	Ali Hamza	2021	Knowledge, Attitude and Practice Towards Influenza Among University Students in Narowal

## **CONFERENCES ATTENDED:**

- **“INTERNATIONAL 30<sup>th</sup> PAKISTAN CONGRESS OF ZOOLOGY”**

**March 2-4, 2010.**

University of Agriculture, Faisalabad.

- 5 Days' Workshop on The **“PREVENTION AND CONTROL OF DENGUE VECTORS”**

**November 5-9, 2012.**

Government College University, Lahore, Pakistan.

- **“Biosafety Training Workshop for Young Scientists”. August 16, 2017.**

Department of Zoology, University of Gujrat, Sub-Campus Narowal.

**LIST OF PUBLICATIONS OF  
SABILA AFZAL**

<b>Sr. No.</b>	<b>Title of Research Paper</b>	<b>Name of Journal with ISSN and Impact Factor / Category</b>	<b>Volume, Page No. &amp; Year</b>
1	Biology Of <i>Aedes</i> And <i>Culex</i> And Their Role In Dissemination Of Dengue Virus	Pakistan Journal of Zoology / ISSN- 0030-9923/ X-category/ <b>Impact Factor-0.6</b>	Vol.47, pg.no 273-276, year 2015
2	Evidence of Transmission of Dengue Virus by Different Developmental Stages of Mosquitoes, <i>Aedes aegypti</i> and <i>Aedes albopictus</i>	Pakistan Journal of Zoology / ISSN- 0030-9923/ X-category/ <b>Impact Factor-0.6</b>	Vol.47, Pg no.887-890, year 2015
3	Efficacy of Ivermectin Against Sarcoptic Mange In Camel	Pakistan Journal of Zoology/ ISSN- 0030-9923/ X-category/ <b>Impact Factor-0.6</b>	48, 301-302, year 2016
4	Bioefficacy of plant powders against <i>Callosobruchus chinensis</i> L. (Coleoptera: Bruchidae) in infested chickpea grains	Asian Journal of Agriculture and Biology/ ISSN- 2307-8553/ X-category/ <b>Impact Factor-2.2</b>	Vol.5, pg no. 119-125, year 2017
5	Review on activity of medicinal plant extracts against mosquito genera <i>Anopheles</i> & <i>Culex</i>	International Journal of Entomology Research	Vol.3, pg no.8-14, year 2018
6	Review of Giardiasis in Punjab, Pakistan	International Journal of Scientific & Engineering Research;	Vol. 9, year 2010
7	A review on Pest management by using <i>Bacillus thuringiensis</i> as biological control: An IPM strategy	International Journal of Entomology Research	Vol.3, pg. no. 42-46, year 2018
8	A review of Ayurvedic treatment of Infectious Diseases	Global Scientific Journals	Vol.6, pg. no.424-436, year 2018
9	Review on effect of Carbamate pesticide on male reproductive system of mammals	International Journal of Entomology Research	Vol.3, pg no.31-33, year 2018
10	Zoonotic diseases and ayurvedic treatment; A review	Global Scientific Journals	Vol.6, pg. no.188-195, year 2018
11	Epidemiology of acute Lymphoblastic Leukemia with reference to prevalence and genetics	Global Scientific Journals	Vol. 6, pg. no. 358-365, year 2018
	Prevalence of <i>Pediculus humanus capitis</i> infestation and socio-economic status in school children; A review”	Global Scientific Journals;	Vol. 6, pg. no.180-187, Year 2018
12	<del>Factors Influencing the</del> Diversification of Mating Behavior	<del>International Journal of Zoology</del> and Animal Biology	<del>Vol.2, pg.</del> no.000145,

	of Animals		year 2019
13	The HIV Epidemic in Pakistan	Global Science J.	Vol.7, pg. no.1065-1071, year 2019
14	Potential of plant oils against <i>Callosobruchus maculatus</i> L	Asian Journal of Agriculture and Biology/ ISSN- 2307-8553/ X-category/ <b>Impact Factor-2.2</b>	Vol. 7, pg. no. 204-209, year 2019
15	Effects of Human-Pet Interaction; Zoonosis	Pak-Euro Journal of Medical and Life Sciences/ ISSN-2707-4471,2707-448X/ Y-category	Vol.4, pg.no S152 - S161, year 2022
16	A DNA barcode survey of insect biodiversity in Pakistan.	PeerJ/ ISSN 2167-8359/W-category/ <b>Impact Factor-2.7</b>	Vol.10, Year 2022
17	<i>Evaluation of Insecticide-Treated Nets against Cx. Quinquefasciatus Mosquitoes in Punjab, Pakistan.</i>	Pak-Euro Journal of Medical and Life Sciences/ ISSN-2707-4471,2707-448X/ Y-category	Vol.6, pg.no 2707-4471, year 2023
18	Prevalence of Parasitic Contaminations in Raw Vegetables in District Narowal.	Biologia (Lahore)/ ISSN- 2313-206X, 0006-3096	Vol.69, pg.no.20-27, year 2023
19	Adulticidal and Histopathological Efficacy of Deltamethrin and Cypermethrin against <i>Culex quinquefasciatus</i> in Shakargarh	Pak-Euro Journal of Medical and Life Sciences/ ISSN-2707-4471,2707-448X/ Y-category	Vol.7, pg.no.39-48, year 2024
20	Geographical distribution of Mosquitoes in Pakistan	Pak-Euro Journal of Medical and Life Sciences/ ISSN-2707-4471,2707-448X/ Y-category	Vol.7, Year 2024

#### PAPER/ABSTRACT PRESENTED/PUBLISHED ON CONFERENCES

- **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.

- 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.

#### **REFERENCES:**

1. Prof. Dr. Hafiz Muhammad Tahir, Department of Zoology, Government College University Lahore. Pakistan.

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2. Prof. Dr. Abida Butt, Institute of Zoology, University of the Punjab, Lahore. Pakistan.

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