



Shabir Ahmad

Date of birth: 17/03/1996 | **Nationality:** Pakistani | **Gender:** Male | **Phone number:**

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WORK EXPERIENCE

STRUCTURAL BIOINFORMATICS GROUP

RESEARCH ASSISTANT – 07/10/2020 – 08/08/2022

Supervisor: Hugo Verli

LABORATORY OF TICK-BORNE DISEASES AND ONE HEALTH

GRADUATE RESEARCHER – 30/08/2018 – 30/08/2019

Supervisor: Abid Ali

LABORATORY OF TICK-BORNE DISEASES AND ONE HEALTH

INTERNSHIP – 29/02/2020 – 30/06/2020

LABORATORY OF TICK-BORNE DISEASES AND ONE HEALTH

INTERNSHIP – 30/06/2018 – 31/08/2018

PEACE GROUP OF SCHOOL AND COLLEGES

INSTRUCTOR IN BIOLOGY – 18/08/2019 – 30/03/2020

LABORATORY OF TICK-BORNE DISEASES AND ONE HEALTH

INTERNSHIP – 30/06/2017 – 31/08/2017

EDUCATION AND TRAINING

20/08/2022 – CURRENT Campinas, Brazil

PH.D PHYSICAL CHEMISTRY (THEORITICAL) University of Campinas Brasil

Website <https://www.unicamp.br> | **Field of study** Chemistry

24/08/2020 – 08/08/2022 Porto Alegre, Brazil

MASTER IN CELL AND MOLECULAR BIOLOGY UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL

Supervisor: Hugo Verli

Website www.ufrgs.br | **Field of study** Cellular and Molecular Biology | **Final grade** A | **Level in EQF** EQF level 1 |

Thesis Genomic, Transcriptome and Structural wide analysis of Tick (*R. microplus*) and tick-borne pathogen (*Rickettsia prowazekii*) for prediction of stable candidates anti-tick vaccine and drug reprofiling.

25/08/2015 – 24/06/2019 Mardan, Pakistan

B.SC. IN ZOOLOGY ABDUL WALI KHAN UNIVERSITY MARDAN PAKISTAN

Supervisor: Abid Ali

Website www.awkum.edu.pk | **Field of study** Zoology | **Final grade** 3.61/4 | **Level in EQF** EQF level 1 |

Thesis Prediction of Novel Drug Targets and Vaccine Candidates against Human Lice (Insecta), Acari (Arachnida), and Their Associated Pathogens

● **LANGUAGE SKILLS**

Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
PASHTO	C2	C2	C2	C2	C2
URDU	C2	C2	C2	C2	C2
PORTUGUESE	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **SKILLS**

Microsoft Powerpoint | Zoom | Microsoft Office | Google Docs | LinkedIn | Power Point | Motivated | Team-work oriented | Written and Verbal skills | Internet user | Twitter | Amber Molecular Dynamics | GPU-accelerated molecular dynamics using Amber and Gromacs | CHIMERA | Computational Modeling tools: molecular dynamics, MAESTRO, VMD, PYMOL

● **PUBLICATIONS**

2022
[Prediction of Novel Drug Targets and Vaccine Candidates against Human Lice \(Insecta\), Acari \(Arachnida\), and Their Associated Pathogens](#)

<https://lume.ufrgs.br/bitstream/handle/10183/233827/001135350.pdf?sequence=1&isAllowed=y>

2020
[Modeling Novel Putative Drugs and Vaccine Candidates against Tick-Borne Pathogens: A Subtractive Proteomics Approach](#)

<https://www.mdpi.com/2306-7381/7/3/129/htm>

2024
[Subtractive proteomics and reverse-vaccinology approaches for novel drug target identification and chimeric vaccine development against Bartonella henselae Strain Houston-1](#)

Rahman, S., Chiou, C.C., Ahmad, S., Islam, Z.U., Tanaka, T., Alouffi, A., Chen, C.C., Almutairi, M.M. and Ali, A., 2024. Bioengineering, 11(5), p.505.
Journal Name: Bioengineering | **Volume, Issue and Pages:** 11(5), 505

● **CONFERENCES AND SEMINARS**

29/11/2022 – 01/12/2022 Federal University of ABC in Santo André, SP
Molecular modeling of enzyme active on lignocellulosic substrates

Won the first position as a best poster presentation
Link <https://cmcc.ufabc.edu.br/noticias/ii-workshop-of-molecular-modeling-in-drug-discovery-and-design>

05/09/2022 – 09/09/2022 Majestic Hotel in Águas de Lindóia, SP
Molecular Modeling Of A Drug Target Mura Enzyme In Rickettsia Prowazekii

Poster presentation
Link <https://www.sbbq.org.br/>

06/10/2021 – 20/10/2021

Communication and scientific writing course certificate (ACS Chemistry for life)

17/02/2019 – 18/02/2019 Pearl Continental Lahore

Certificate of International buffalo congress (IBC 2019)

18/04/2019 – 18/04/2019 Department of Biochemistry, AWKUM

One day Seminar on “Novel genes identification in neurodevelopmental disorders” 2019

● **RECOMMENDATIONS**

Hugo Verli Associate Professor

Associate Professor
Coordinator of Cellular and Molecular Biology- PPGBCM
Center for Biotechnology
Group of Structural Bioinformatics
Federal University of Rio Grande do Sul

Email hugoverli@gmail.com | **Phone** (+55) 5133086068

Abid Ali Associate Professor

Associate Professor
Department of Zoology
Abdul Wali Khan University Mardan

Email uop_ali@yahoo.com | **Phone** (+92) 3459181648

● **PROJECTS**

09/08/2021 – 09/06/2022

In Silico Identification of Drug Targets and Vaccine Candidates against Bartonella quintana: A Subtractive Proteomics Approach

One chapter of My Master thesis

09/09/2020 – 09/06/2022

Genome, transcriptome and proteome wide analysis of R. microplus for in silico based antigens selection as a candidate vaccine against this tick

Main chapter of master thesis

31/08/2019 – 29/02/2020

Modeling Novel Putative Drugs and Vaccine Candidates against Tick-Borne Pathogens: A Subtractive Proteomics Approach

Supervisor: Abid Ali

29/05/2018 – 29/05/2019

IDENTIFICATION OF NOVEL DRUG AND VACCINE TARGETS OF ACARINES USING SUBTRACTIVE PROTEOMICS APPROACH

Supervisor: Abid Ali

● **HONOURS AND AWARDS**

22/08/2022

FAPESP fellowship for Ph.D studies (Brasil) – UNICAMP Brasil

31/07/2020

CAPES scholarship (Brazil) for master studies 2020-2022 – Government of Brasil

30/06/2017

Awarded merit-based Prime Minister Laptop scheme 2017 – Government of Pakistan

18/03/2018

Best Organizer Award 2017 – Abdul Wali Khan University Mardan Pakistan

23/04/2019

Best Organizer Award 2019 – Abdul Wali Khan University Mardan Pakistan

● **ONLINE COURSES**

20/03/2020 – 20/05/2020

Tropical Parasitology: Protozoans, Worms, Vectors and Human Diseases

02/05/2019 – 02/07/2019

Bioinformatic Methods I

22/03/2019 – 22/05/2019

Bioinformatic Methods II

06/05/2019 – 06/07/2019

Introduction to Cancer Biology (University of Johns Hopkins)
