RESUME

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EDUCATION

- **PhD (Biochemistry)** Institute of Chemical Sciences, University of Peshawar, Khyber Pakhtunkhwa, Pakistan (Nov. 2013).
- **M.Sc. (Biochemistry)** University of Peshawar, Peshawar, Pakistan (Aug. 2005).
- **B.Sc. (Chemistry, Botany and Zoology)** University of Peshawar (2003)
- **F.Sc. (Pre-Medical)** BISE Peshawar, Pakistan (2001).
- **Matric (Science)** BISE Peshawar, Pakistan (1998).

EMPLOYMENT

- 2014-todate Assistant Professor, Department of Chemistry, Bacha Khan University Charsadda.

RESEARCH EXPERTISE

- Mechanistic study of antimicrobial agents against different pathogenic bacteria.
- Biotransformation of bioactive compounds through fungal, bacterial and plants cultures.
- Isolation of secondary metabolites from fungi and study of their biosynthetic pathways.
- Performance of various biological and *in-vitro* pharmacological activities.

PARTICIPATION IN CONFERENCE/ SEMINARS

- ***Pak-US workshop on applications of nanotechnology***, 29th-30th May, 2012 organized by international center for chemical and biological, H.E.J. research institute of chemistry, university of Karachi, Pakistan, and US national science foundation. (**Participant**).

- ***Regional workshop on chemical laboratory safety and security***, 5-6th June 2012, organized by international center for chemical and biological sciences, university of Karachi Pakistan. (**Participant**).

POSTER

- Sajid Ali, Muhammad Nisar. Production of a highly potent epoxide through the microbial metabolism of 3β-acetoxyurs- 11-en-13β,28-olide by *Aspergillus niger* culture. March 9, 2011, Institute of Chemical Sciences, University of Peshawar.
- Sajid Ali, Muhammad Nisar. Microbial metabolism of Finasteride by *Aspergillus niger* and biological potentials of the biotransformed metabolites. March 7, 2012, Institute of Chemical Sciences, University of Peshawar.
- Sajid Ali, Muhammad Nisar. Biotransformation of Finasteride by *Ocimum sanctum* L., and tyrosinase inhibitory activity of transformed metabolites: Experimental and computational insights. April 11, 2013, Institute of Chemical Sciences, University of Peshawar.

PUBLICATIONS

1. Muhammad Ishtiaq Jan, Abda Khatoon, Wei Sun, Naeem Khan, **Sajid Ali**, Ibrahim A Shaaban, Mansoor Khan, Amir Badshah, Imran Rabbani, Umar Nishan **(2026)**. Medicinal chemistry meets nanotechnology: machine learning assisted colorimetric sensing platform for oxalic acid based on drug mediated copper oxide nanoparticles. RSC advances 16 (4), 3458-3468
2. **Sajid Ali**, Usman Ali, Muhammad Ishtiaq Jan **(2024)**. Hypolipidemic and HMG-CoA reductase inhibitory effects of 15-oxoursolic acid from *Rhododendron arboreum*: An *In-vivo* and *In-silico* study. Drug Development and Industrial Pharmacy 51, 955-96
3. Muhammad Ishtiaq Jan, Naeem Khan, Wajeeha Naureen, **Sajid Ali**, Umar Nishan, Mansoor Khan **(2025)**. *Momordica Charantia* L Mediated Synthesis of Carbon Dots for Efficient Sensing of Cadmium (II) and Enhanced Antibacterial Activities. ChemistrySelect 10 (24), e00918.
4. Aftab Alam, Muhammad Junaid, Muhammad Fawad Ali, **Sajid Ali**, Muhammad Riaz, Sana Haq, Abdul Wadood **(2024)**.Computational Development of New Inhibitors for Apoptosis Stimulating Protein of p53 (iASPP) Using Pharmacophore Modeling,

Docking, and MD Simulation Approaches. Journal of Cancer Biomoleculars and Therapeutics 1 (2), 1-9

5. Mazhar Ali, Tamanna Gul, Idrees Khan, **Sajid Ali**, Muhammad Sadiq, Khalid Saeed **(2024)**. Photocatalytic degradation of methylene blue dye using Ba-doped MnO nanoparticles. Journal of Dispersion Science and Technology, 1-10
6. Shizhong Zhang, Sohail Khan, Falak Naz, Ayesha Noman, Arif Nawaz, **Sajid Ali**, Khalid Saeed, Nisar Ali, Ming Ge. **(2024)**. Robust iron-doped manganese oxide nanoparticles from facile fabrication to photo-catalytic degradation application of binary dyes mixture. Environmental Research 240, 117384
7. Falak Naz, Gul Asimullah Khan Nabi, Arif Nawaz, **Sajid Ali**, Mohsin Siddique **(2022)**. A Novel Approach for the Photocatalytic Degradation of Binary Dyes Mixture Using SnO2 Nanoparticles as a Catalyst. Journal of Cluster Science.
8. **Sajid Ali**, Nazma Faqir, Falak Naz, Muhammad Ishtiaq Jan, Naeem Khan, Amal Alotaibi, Riaz Ullah **(2022)**. A comprehensive mechanistic antibacterial and antibiofilm study of potential bioactive ((BpA) 2bp) Cu/Zn complexes via bactericidal mechanisms against escherichia coli. Molecules 28 (5), 2215
9. Tamanna Gul, Idrees Khan, **Sajid Ali**, Mohammad Sadiq, Khalid Saeed **(2022)**. Synthesis and characterization of Mn-Pt/AC nanoparticles and their photocatalytic and antibacterial applications. Journal of Dispersion Science and Technology 43 (4), 612-619.
10. Muhammad Abdul Haleem, Qurrat ul-Ain, Muhammad Saadiq, Muhammad Iqbal, Hussain Gulab, **Sajid Ali**, Sabir Khan **(2022)**. Probing the chemical constituents of Cassia javanica and its in vitro analyses as a potent drug. Royal Society open science 9 (1), 211626.
11. Falak Naz, Afsha Imran, Wajid Ullah, Khalid Saeed, **Sajid Ali**, Muhammad Naeem Khan **(2021)**. Radiation induced degradation of Congo red dye over unsupported and activated carbon supported strontium oxide nanoparticles. Iranian Journal of Chemistry and Chemical Engineering.
12. Muhammad Abdul Haleem, Qurrat ul-Ain, Muhammad Saadiq, Muhammad Iqbal, Hussain Gulab, **Sajid Ali** and Sabir Khan **(2021)**. Probing the chemical constituents of *Cassia javanica* and its in vitro analyses as potent drug. R. Soc. Open Sci. 9: 211626.
13. **Sajid Ali,** Hazrat Ali, Mohsin Siddique, Hussain Gulab, Muhammad Abdul Haleem, Javed Ali **(2020)**. Exploring the biosynthesized gold nanoparticles for their antibacterial

potential and photocatalytic degradation of the toxic water wastes under solar light illumination. Journal of Molecular Structure, 1215, 128259.

14. Tamanna Gul, Idrees Khan, **Sajid Ali**, Mohammad Sadiq & Khalid Saeed **(2020)**. Synthesis and characterization of Mn-Pt/AC nanoparticles and their photocatalytic and antibacterial applications. Journal of Dispersion Science and Technology.
15. Mohsin Siddique, Noor Muhammad Khan, Muhammad Saeed, **Sajid Ali** and Zarbad Shah **(2020)**. Green synthesis of cobalt oxide nanoparticles using Citrus medica leaves extract: characterization and photo-catalytic activity. Zeitschrift für Physikalische Chemie.
16. Kausar Shaheen, Hongli Suo, Zarbad Shah, Muhammad Bilal Hanif, Zahid Hussain, **Sajid Ali**, Min Liu, Lin Ma, Jin Cui, Yao Tang Ji, Yi Wang **(2020)** Electrochemical performance of multifuel based nanocomposite for solid oxide fuel cell. Ceramic International, 46, 8832-8838.
17. Gulab, H, Shah, Z, Mahmood, M, Shah, S.R, **Ali, S**, Iqbal, M, Khan, M.N, Florke, U, Khan, S.A. **(2017)**. Synthesis, Characterization and antibacterial activity of a new calcium complex using sodium 2-mercaptobenzothiazole and 1, 10-phenanthroline as a ligand. Journal of Molecular Structure, 1154: 140-144.
18. **Ali, S**, Nisar, M, Qaisar, M, Khan, A, Khan, AA. **(2017)**. Evaluation of the cytotoxic potential of a new pentacyclic triterpene from *Rhododendron arboreum* stem bark, Pharmaceutical Biology, 55(1): 1927-1930.
19. **Ali, S**, Nisar, M, Shah, Z. (**2016)**. Production of biologically active oxidized derivatives of finasteride through metabolism by Aspergillus niger culture, Pharmaceutical Biology, 54(11): 2771-2776.
20. **Ali, S**, Nisar, M, Gulab, H. (**2016)**. Production of a highly potent epoxide through the microbial metabolism of 3β-acetoxyurs-11-en-13 β,28-olide by *Aspergillus niger* culture. Pharmaceutical Biology, 54(9): 1942-1946.
21. Khattak, S.U, Bacha, N, Lutfullah, G, Bakht, J, **Ali, S**, Ali, J, Khan, A.A. **(2015)**. Study of the genetic traits associated with antibiotic resistance in *Staphylococcus aureus* isolated from skin wards of Khyber Pakhtunkhwa, Pakistan. Asian Pacific Journal of Tropical Disease, 5(5): 393-398.
22. Raza, R, Ilyas, Z, **Ali, S**, Nisar, M, Khokhar, M.Y, Iqbal, J. **2015**. Identification of Highly Potent and Selective α-Glucosidase Inhibitors with Antiglycation Potential, Isolated from *Rhododendron arboreum*. Record of Natural Products, 9, 262-266.

23. Gulab, H, Mahmood, M, **Ali, S**, Jan, F.A. **(2015).** ASSESSMENT OF HEAVY METALS IN VARIOUS PARTS OF PLANTS, SOIL AND AIR OF SOME SELECTED AREAS OF DISTRICT CHARSADDA, PAKISTAN. Carpathian Journal of Earth and Environmental Sciences, Vol. 10, No. 2, p. 219 - 224.
24. **Ali, S**, Nisar, M, Iriti, M, Shah, M.R, Mahmud, M, Ali, I, Khan, I. **(2014)**. Biotransformation of Finasteride by Ocimum sanctum L., and tyrosinase inhibitory activity of transformed metabolites: Experimental and computational insights. Steroid, 92, 20-24.
25. Nisar, M, **Ali, S**, Muhammad, N, Gillani, S.N, Shah, M.R, Khan, H, Maione, F. (**2014).** Antinociceptive and anti-inflammatory potential of *Rhododendron arboreum* bark. Toxicology and Industrial Health, pii: 0748233714555391.
26. Nisar, M., Ali, I., Shah, M.R., Badshah, A., Qayum, M., Khan, H., Khan, I., Ali, S. **(2013).** Amberlite IR-120H as a recyclable catalyst for the synthesis of 1,8-dioxo-octahydroxanthene analogs and their evaluation as potential leishmanicidal agents. RSC Advances, 3, 21753-21758.
27. Nisar, M, **Ali, S**, Qaisar, M, Gilani, S.N, Shah, M.R. Khan, I, Ali, G. **(2013).** Antifungal activity of bioactive constituents and bark extracts of *Rhododendron arboreum*. Bangladesh Journal of Pharmacology, 8, 218-222.
28. Nisar, M, **Ali, S**, Qaisar, M. **(2013).** Antibacterial and cytotoxic activities of the methanolic extracts of *Rhododendron arboreum.* Journal of Medicinal Plant Research, 7, 398-403.
29. Nisar, M, **Ali, S**, M. Tahir, N, Ahmad, B, Hameed, S. **(2013).** 4,4,6a,6b,11,12,14b-Heptamethyl-16-oxo-1,2,3,4,4a,5,6,6a,6b,7,8,9,10,11,12,12a,14a,14b-octadecahydro12b,8a(epoxymethano)picen-3-yl acetate. Acta Crystallographica Section E, E69, O573.
30. Nisar, M, **Ali, S**, Qaisar, M. **(2011).** Preliminary Phytochemical Screening of Flowers, Leaves, Bark, Stem and Roots of *Rhododendron arboreum*. Middle East Journal of Scientific Research. 10 (4): 472-476.

References

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