

## CURRICULUM VITAE

### Manzoor Ahmad Ph.D.

Department of Chemistry

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### RESEARCH EXPERIENCE

1. Senior Research Fellow (Phytochemistry), Swaziland Institute for Research in Traditional Medicine, Medicinal and Indigenous Food Plants (SIRMIP), University of Swaziland, Swaziland, Southern Africa. From **February 2010 to March 2011**.
2. Worked as senior research associate in the research group of Prof. M. Iqbal Choudhary at University of Karachi, Karachi. **2006-2008**.
3. Worked on Isolation and Characterization of Secondary Metabolites from *Myrtus communis* L, *Delphinium roylei* Munz and Related Medicinal Plants. During **2002-2006**.
4. Worked as Scientific Officer for Preservation and Research on High Valued Medicinal Plants at High Altitude, Sheringal Campus (SHAARK), University of Malakand. During **2004-2005**.
5. Worked on Isolation and Characterization of Alkaloids from *Delphinium roylei* Munz and *Aconitum laeve* Royle. During **1998-2002**.

### CURRENT RESPONSIBILITIES

1. Associate Professor at the Department of Chemistry, University of Malakand, since 26<sup>th</sup> December 2013.
2. Assistant Professor April **2008 to 25<sup>th</sup> December 2013**.
3. Teaching/Research graduate/post graduate/M. Phil/PhD students at Department of Chemistry, University of Malakand, Chakdara, Dir (L).
4. Director Sports (Acting), University of Malakand, from May 2018 till date

### ADMINISTRATIVE EXPERIENCE

1. Chairperson, Department of Chemistry, University of Malakand, from 4<sup>th</sup> November 2017 to 4<sup>th</sup> December 2019.

The following students are registered for M.Phil./Ph.D. work in my Supervision/co supervision.

S. No.	Name of Student	Date of Registration	Title of Thesis
1	Imran Khan	2015	<b>(PhD) (Degree Awarded), Co-Supervision</b>
2	Rukhsana Ghaffar	2017	<b>(PhD) (Degree Awarded), Co-Supervision</b>
3	Nouman Altaf	2013	<b>(M.Phil) (Degree Awarded), Co-Supervision</b>
4	Haider Ali	2013	<b>(M.Phil) (Degree Awarded), Co-Supervision</b>
5	Husna Gul	2013	<b>(M.Phil)/ Degree Awarded</b>

6	Shujaat Ahmad	2016	<b>(PhD) (Degree Awarded)</b>
7	Hanif Ahmad	2016	<b>(Ph.D.) (Degree Awarded)</b>
8	M. Ashraf	2014	<b>(M.Phil) (Degree Awarded)</b>
9	Rashid Ahmad	2017	<b>(M. Phil) (Degree Awarded)</b>
10	Farukh Naz	2018	<b>(M. Phil) (Degree Awarded)</b>
11	Najeeb ullah	2016	<b>(M. Phil) (Degree Awarded)</b>
12	Zaniab	2017	<b>(M. Phil) (Degree Awarded)</b>
13	Nadia Gul	2017	<b>(M. Phil) (Degree Awarded)</b>
14	Sami ullah Khan	2017	<b>(M. Phil) (Degree Awarded)</b>
15	Ammara	2017	<b>(M. Phil) (Degree Awarded)</b>
16	Nasihah	2017	<b>(M. Phil) (Degree Awarded)</b>
17	Layaq Zada	2019	<b>(M. Phil) (Degree Awarded)</b>
18	M. Usman Khan	2019	<b>(M. Phil) (Degree Awarded)</b>
19	Faiz Talab	2023	<b>(Ph.D) (Degree Awarded)</b>
20	Israr ul Haq	2023	<b>(Ph.D) (Thesis Submitted)</b>
21	Sobia Amin	2020	<b>(M. Phil) (Degree Awarded)</b>
22	Gulpanra	2020	<b>(M. Phil) (Degree Awarded)</b>
23	Amrina Bi Bi	2020	<b>(M. Phil) (Degree Awarded)</b>
24	Obaid Ullah	2021	<b>(M. Phil) (Degree Awarded)</b>
25	Hafiz ur Rahman	2022	<b>(M. Phil) (Degree Awarded)</b>
26	Alam Zeb	2022	<b>(M. Phil) (Degree Awarded)</b>
27	Mudassir Shah	2022	<b>(PhD) (Degree Awarded), Co-Supervision</b>
28	Aftab Alam	2023	<b>(Ph. D) (Degree Awarded)</b>
29	Seema Begum	2022	<b>(M. Phil) (Degree Awarded)</b>
30	Muhammad Zeb	2019	<b>(Ph.D) (Research in progress)</b>
31	Muhammad Ayaz	2020-2023	<b>(Ph.D) (Thesis in progress)</b>
32	Samrena	2023	<b>(M.Phil) (Degree Awarded)</b>
33	Sumbol Roghani	2023	<b>(M.Phil) (Degree Awarded)</b>
34	Sami Ullah	2023	<b>(M.Phil) (Degree Awarded)</b>

35	Baber Khan	2023	(M.Phil) (Degree Awarded)
36	Safia	2023	(M.Phil) (Degree Awarded) Co-Supervision
37	Naqib Ahmad	2022	(M.Phil) (Degree Awarded) co-supervision
38	Tanzella A. Shah	2023	(M.Phil) (Degree Awarded)
39	Waqar Ahmad	2023	(M.Phil) (Degree Awarded)
40	Sana Gul	2023	(M.Phil) (Degree Awarded)
41	M. Daud	2023	(M.Phil) (Thesis in progress)
42	Atta Ullah	2023	(M.Phil) (Research in progress)
43	Gul Badshah	2023	(M.Phil) (Research in progress)
44	M. Usman	2021-24	Ph.D (Research in progress)
45	Hafiza Amna Mukhtar	2021-24	Ph.D (Research in progress)
46	Samina Saher	2022-24	(M. Phil) Research in progress
47	Hafsa	2022-24	(M. Phil) Research in progress
48	Sidra	2022-24	(M. Phil) Research in progress
49	Amrina bibi	2022-25	(PhD) Research in progress
50	Obaidullah	2022-25	(PhD) Course work in progress

## **ACADEMICS**

### **Ph.D. (Organic Chemistry, 2007)**

International Center for Chemical and Biological Sciences (ICCBS), H.E.J. Research Institute of Chemistry, University of Karachi, Karachi-75270, Pakistan

**Supervisor:** Dr. Farzana Shaheen

**Thesis Title:** "Isolation and Characterization of Secondary Metabolites from *Myrtus communis* L, *Delphinium roylei* Munz and Related Medicinal Plants"

### **M.Phil (Organic Chemistry, 2002)**

Department of Chemistry, University of Peshawar, Peshawar-25120, Pakistan

**Supervisor:** Prof. Muhammad Arfan

**Thesis Title:** "Isolation and Characterization of Alkaloids: Study of *Delphinium roylei* Munz and *Aconitum laeve* Royle."

### **M.Sc. Chemistry (1997)**

University of Peshawar, Peshawar, Pakistan

### **B.Sc. (1994)**

University of Peshawar, Peshawar, Pakistan

**RESEARCH PRODUCTIVITY AWARDS:** Received Research Productivity Awards for the year 2011 and 2012

## RESEARCH PROJECTS:

1. **Characterization of New Medicinal Compounds from Plants Belonging to the Family Ranunculaceae as Lead for Treatment of Neurological Disorder, Project No. 20-3536, Rs. 4.85 Millions. (Completed).**
2. **Cannabinoids (CB1 and CB2) Receptors: Synthesis and Characterization. Project No. -- - Rs. 2.49 Millions.**

## RESEARCH PUBLICATIONS

1. New  $\alpha$ -glucosidase inhibitors and antibacterial compounds from *Myrtus communis* L. Atta-ur-Rahman, Muhammad Iqbal Choudhary, Farzana Shaheen, **Manzoor Ahmad**, Shamsun Nahar Khan, Shazia Anjum, **US Patent** Application submitted (**Pub. No.: US 2008/0269510 A1**).
2. M. L. Raza, M. Zeeshan, **Manzoor Ahmad**, F. Shaheen, S. U. Simjee. Antiepileptogenic action of *Delphinium nordhagenii* in PTZ-kindled model of epileptogenesis in mice. *Metabolic. Brain Disease*, (submitted, 2023)
3. M. Zeeshan, **Manzoor Ahmad**, H. Ahmad and F. Shaheen. Antioxidant norditerpenoid Alkaloid from *Delphinium nordhagenii* Wendelbo in Nytt Mag. *Nat. Prod. Rep.*, (submitted 2023).
4. R. Ghaffar, M. Saeed, M. Ali and Manzoor Ahmad. Antimicrobial and Antioxidant flavonoids isolated from *Viola serpens* Wall. *Asian Journal of Natural Products* (submitted 2023) (IF = 1.09).
5. H. Ali, A. Latif, S. Khan, Ammara, M. Ali, **Manzoor Ahmad**, A. Al-Harrasi, A. Khan, Design, Synthesis, and In-Silico Studies of New Indolyl Aryl Sulfone Derivatives as Potential Inhibitors of HIV-1 Non-Nucleoside Reverse Transcriptase. *Journal of Medicinal Chemistry* (submitted 2023) (IF. 8.039)
6. M. Ibrahim, M. Ali, S. A. Halim, A. Latif, **Manzoor Ahmad**, S. Ali, Samee Ullah, A. Khan, A. I. Rebierio, Jalal Uddin, A. Al-Harrasi. New Supramolecules of Bis(acylhydrazones)-linked Bisphenol Sulfide for Alzheimer's: Targeting Cholinesterases by in-vitro and in-silico approaches. *RSC Advances* (submitted 2023) (IF. 4.036)
7. R. Bibi, M. Ali, A. Latif, A. Alam, Ammara, **Manzoor Ahmad**, Saeed Ullah, S. Bawazeer, A. Khan, A. Al-Harrasi. Novel Derivatives of Paracetamol as Potent  $\alpha$ -glucosidase Inhibitors: Synthesis, In-Vitro, and In-Silico Studies. *RSC Advances* (Revision submitted 2023) (IF. 4.036)
8. R. Ahmad, A. Alam, M. Khan, T. Ali, A. A Elhenawy, **Manzoor Ahmad**. Antioxidant Activity, Molecular Docking and Quantum Studies of Novel Bis-Schiff Base Derivatives Based on Benzyl Phenyl Ketone Moiety. *ChemistrySelect* (under review 2023) (IF: 2.307)
9. M. Ismail, R. Ahmad, A. Latif, A. A. Khan, **Manzoor Ahmad**, A. Khan, A. Al-Harrasi, M. Ali. An efficient synthesis of bis-Schiff's bases of polyhydroquinoline derivatives via multistep reactions, anti-bacterial activities and DFT approach, *Journal of Molecular Structure* (Available online 18 June 2023, 136059) (IF. 3.841)
10. R. Ahmad, M. Khan, A. Alam, A. A Elhenawy, A. Qadeer, A. F. Al Asmari, M. Alharbi, F. Al Asmari, **Manzoor Ahmad**. Synthesis, Molecular Structure and Urease Inhibitory Activity of Novel Bis-Schiff Bases of Benzyl Phenyl Ketone: A Combined Theoretical and Experimental Approach. *Saudi Pharmaceutical Journal*. (online published 2023) (IF. 4.562)

11. M. Ayaz, A. Alam, Zainab, M. Ali, A. Latif, N. Rehman, S. Ullah, M. A. Lodhi, M. I. A. Shah, A. Al-Harrasi, **Manzoor Ahmad**. Synthesis and Characterization of Novel Amide Derivatives Based on Fexofenadine as Potent Tyrosinase Inhibitors, ADMET and their *In Silico* Evaluation. *International Journal of Biological Macromolecules*. (Under review 2023) (IF 8.025)
12. A. Alam, M. Ali, Zainab, A. Latif, N. Rehman, A. J. Shah, I. A. Khan, M. Ayaz, A. Al-Harrasi, and **Manzoor Ahmad**. Discovery of Flurbiprofen-based Novel Azine Derivatives as Prostaglandin Endoperoxide Synthase-II Inhibitors: Synthesis, Analgesic, Anti-inflammatory Activities, and their Molecular Docking. *Bioorganic Chemistry*. (Under review 2023) (IF 5.307)
13. I. Haq, I. Ali, K. M. Khan, S. Chigurupati, A. Habib, U. Salar, **Manzoor Ahmad**, S. Konanki, S. G. Felemban, M. Taha, Z. Haq. Synthetic Piperidine-substituted Chalcones as Potential Hits for  $\alpha$ -Amylase Inhibitory and Antioxidant Activities" *Future Medicinal Chemistry*, (Published 2023) (IF 4.767)
14. N. Shahab, J. Pan, M. Ali, A. Alam, N. Rehman, S. Ullah, Zainab, M. Khan, A. Latif, M. Shah, A. Khan, A. Al-Harrasi and **Manzoor Ahmad**. Novel Polyhydroquinoline Schiff's base Derivatives: Synthesis, Characterization, *In vitro*  $\alpha$ -glucosidase Inhibitory, and Molecular Docking Studies. *Research on Chemical Intermediates*, 49, 3005–3028 (2023) (IF 3.134)
15. F. Talab, A. Alam, Zainab, M. Ali, A. Latif, N. Rehman, S. Ullah, S. A. Halim, A. Khan, A. Al-Harrasi and **Manzoor Ahmad**. Novel Polyhydroquinoline Ether Hybrids for Diabetic Management: Synthesis, *In-Vitro* and *In Silico*  $\alpha$ -glucosidase Inhibition. *Research on Chemical Intermediates*, (submitted 2023) (IF 3.134)
16. F. Talab A. Alam, Zainab, M. Ali, A. Latif, N. Rehman, S. Ullah, S. A. Halim, A. Khan, A. Al-Harrasi, and **Manzoor Ahmad**. Bio-oriented synthesis of novel polyhydroquinoline derivatives as  $\alpha$ -glucosidase inhibitor for management of diabetes. *ACS Omega* 8(7), 6234–6243 (2023) (IF 4.132)
17. I. Haq, I. Ali, K. M. Khan, S. Chigurupati, A. Habib, U. Salar, **Manzoor Ahmad**, S. Konanki, S. G. Felemban, M. Taha, Z. Haq. New arylidene-linked chromane-2,4-dione analogs as potential leads for diabetic management; syntheses,  $\alpha$ -amylase inhibitory and radical scavenging activities. *Chemical Papers*, (Published 2023) (IF 2.146)
18. A. Alam, M. Ali, N. Rehman, A. Latif, A. J. Shah, N. U. Wazir, M. A. Lodhi, M. Kamal, M. Ayaz, A. Al-Harrasi, **Manzoor Ahmad**. Synthesis and Characterization of Flurbiprofen Derivatives as Selective COX-II Inhibitors: In vivo Anti-inflammatory Activity and Molecular Docking. *International Journal of Biological Macromolecules*. 228(3), 659-670 (2023) (IF 8.025)
19. N. Gul, S. Ahmad, H. Ahmad, A. Aziz, M. Almeahmadi, A. A. Alsaari, M. Allahyani, Zainab, S. A. A. Shah, N. Rahman, **Manzoor Ahmad**. New acetylcholinesterase inhibitors isolated from *Delphinium uncinatum*. *Arabian Journal of Chemistry*, 16(1), 104408 (2023) (IF 6.212)
20. H. Hussain, S. Ahmad, S. W. A. Shah, A. Ullah, S. Rahman, **Manzoor Ahmad**, M. Almeahmadi, O. A. Aziz, M. Allahyani, A. A. Alsaari, M. Halawi, E. Alamer. Synthetic Mono-carbonyl Curcumin Analogues Attenuates Oxidative Stress in Mice Models. *Biomedicines*, 10(10), 2597 (2022) (IF 4.757)
21. S. Ali, M. Ali, A. Khan, S. Ullah, M. Waqas, A. Al-Harrasi, A. Latif, **Manzoor Ahmad** and M. Saadiq. Novel 5-(Arylideneamino)-1*H*-Benzo[*d*]imidazole-2-thiols as Potent Anti-Diabetic Agents: Synthesis, *In Vitro*  $\alpha$ -Glucosidase Inhibition, and Molecular Docking Studies. *ACS Omega*, 7(48), 43468–43479 (2022) (IF 4.132)

22. Zainab, Yu Haitao, M. Ali, A. Alam, N. Rahman, A. Latif, N. Shahab, I. A. Khan, A. J. Shah, M. Khan, A. Al-Harrasi, Manzoor Ahmad. Synthesis, Characterization, Antimicrobial and Calcium Channel Blocking (CCB) Activities of Novel Polyhydroquinoline (PHQ) Derivatives. *Antibiotics*. 11, 1568 (2022) (IF 5.222).
23. Zainab, S. Ahmad, I. Khan, K. Saeed, H. Ahmad, A. Alam, M. Almeahmadi, A. A. Alsaiari, Yu Haitao, **Manzoor Ahmad**. A study on Green Synthesis, Characterization of Chromium oxide Nanoparticles and their Enzyme Inhibitory Potential. *Frontiers in Pharmacology, section Experimental Pharmacology and Drug Discovery*, 13, 1008182 (2022) (IF 5.988)
24. S. Ahmad, N. Gul, **Manzoor Ahmad**, M. Almeahmadi, A. Shafie, S. A. A. Shah, N. Rahman and H. Ahmad. Isolation, Crystal Structure, DFT Calculation and Molecular Docking of Uncinatine-A Isolated from *Delphinium uncinatum*. *Fitoterapia*, 162, 105268 (2022) (IF: 3.204)
25. A. Alam, M. Ali, A. Latif, N. Rehman, S. Saher, Zainab, Faryal, A. Khan, S. Ullah, O. Ullah, S. A. Halim, F. Sani, A. Al-Harrasi and Manzoor Ahmad. Novel *Bis*-Schiff's base derivatives of 4-nitroacetophenone as potent  $\alpha$ -glucosidase agents: Design, synthesis and *In Silico* approach. *Bioorganic Chemistry*. 128, 106058, (2022) (IF: 5.307)
26. S. A. Khan, M. Ali, A. Latif, **Manzoor Ahmad**, A. Khan, A. Al-Harrasi. Mercaptobenzimidazole-based 1,3-thiazolidin-4-ones as antidiabetic agents: synthesis, in vitro  $\alpha$ -glucosidase inhibition activity and molecular docking studies. *ACS Omega*, 7, 2801 (2022) (IF: 4.132)
27. S. Ahmad, **Manzoor Ahmad**, M. Almeahmadi, S. A. A. Shah, F. A. Khan, N. M. Khan, A. Khan, Zainab, M. Halawi and H. Ahmad. *In Vitro* and *In Silico* Investigation of Diterpenoid Alkaloids Isolated from *Delphinium chitralense*. *Molecules*, 27, 4348 (2022). (IF: 4.927)
28. A. Alam, M. Ali, N. Rehman, S. Ullah, S. Ahsan Halim, A. Latif, Zainab, A. Khan, O. Ullah, S. Ahmad, A. Al-Harrasi, **Manzoor Ahmed**. Bio-oriented synthesis of novel flurbiprofen clubbed hydrazoneSchiff's bases for diabetic management: *In vitro* and *In silico* studies. *Pharmaceutical*. 15(6), 672 (2022) (IF 5.863)
29. Abdullah, M. A. Khan, W. Ahmad, **Manzoor Ahmad**, A. Adhikari, M. Ibrar, Maqsood ur Rehman and M. Asif. Antioxidant, antinociceptive, anti-inflammatory and hepatoprotective activities of pentacyclic triterpenes isolated from *Ziziphus oxyphulla* Edgew. *Drug and Chemical Toxicology*. 45(4), 1796-1807 (2022) (IF = 1.946)
30. H. Hussain, S. Ahmad, S. W. A. Shah, A. Ullah, N. Ali, M. Almeahmadi, **Manzoor Ahmad**, A. A. K. Khalil, S. B. Jamal, H. Ahmad and M. Halawi. Attenuation of Scopolamine-Induced Amnesia via Cholinergic Modulation in Mice by Synthetic Curcumin Analogs. *Molecules*, 27(8), 2468 (2022) (IF: 4.927)
31. S. Ahmad, Zainab, H. Ahmad, I. Khan, S. Alghamdi, M. Almeahmadi, M. Ali, A. Ullah, H. Hussain, N. M. Khan, F. Ali, **Manzoor Ahmad**. Green Synthesis of Gold Nanoparticles Using Delphinium Chitralense Tuber Extracts, their Characterization and Enzyme Inhibitory Potential. *Brazilian Journal of Biology*, 82, e257622 (2022) (IF: 1.651)
32. M. Ibrahim, A. Latif, **Manzoor Ahmad**, S. Ahmad, A. Ali, A. B. Siddique, M. Saadiq, N. Akbar, U. Farooq, A. Khan, A. Al-Harrasi, M. Ali. Sulfonylbis(acylhydrazones) as anticholinesterase inhibitors: Synthesis, *in vitro* biological evaluation and computational studies. *Journal of Molecular Structure*. 1252, 132215 (2022) (IF: 3.196)
33. M. Ali, A. Latif, S. Bibi, S. Ali, A. Ali, **Manzoor Ahmad**, R. Ahmad, A. A. Khan, A. Khan, A. I. Ribeiro, A. Al-Harrasi, U. Farooq. Facile Synthesis of the Shape-Persistent 4-

Hydroxybenzaldehyde Based Macrocycles and Exploration of their Key Electronic Properties: An Experimental and DFT Approach. *ChemistrySelect*, 7(7), e202102715 (1-10) (2022) (IF: 2.109)

34. M. Saadiq, G. Uddin, A. Latif, M. Ali, N. Akbar, Ammara, S. Ali, **Manzoor Ahmad**, M. Zahoor, A. Khan and A. Al-Harrasi. Synthesis, Bioactivity Assessment, and Molecular Docking of Non-sulfonamide Benzimidazole-Derived N -Acylhydrazone Scaffolds as Carbonic Anhydrase-II Inhibitors. *ACS Omega*, 7(1), 705-715 (2022) (IF: 4.132)
35. R. Ghaffar, **Manzoor Ahmad**, H. Khan, N. Nazir, N. Sultana, K. F. Alsharif, J. Khan, A. Naz. The hematological and histological studies for the hepatoprotective-like effect of the hydromethanolic extract and the fractions of *Viola serpens* Wall. *Cellular and Molecular Biology*. 67(4), 97-105 (2021) (IF: 1.77)
36. M. Shah, W. Murad, N. Rehman, S. Mubin, J. N. Al-Sabahi, **Manzoor Ahmad**, M. Zahoor, O. Ullah, M. Waqas, S. Ullah, Z. Kamal, R. Almeer, S. G. Bungau and A. Al-Harrasi. GC-MS Analysis and Biomedical Therapy of Oil from n-Hexane Fraction of *Scutellaria edelbergii* Rech. f.: In Vitro, In Vivo, and In Silico Approach. *Molecules*, 26(24), 7676 (2021) (IF: 4.927)
37. B. Ahmad, S. Rehman, A. Azizullah, M. F. Khan, S. R. Din, **Manzoor Ahmad**, A. Ali, N. Tahir, N. Azam, Y. Gamallat, K. Rahman, M. Ali, M. Safi, I. Khan, S. Qamer, D. H. Oh. Molecular mechanisms of anticancer activities of polyphyllin VII. *Chem Biol Drug Des*. 97, 914–929 (2021) (IF: 2.817)
38. B. Ahmad, Y. Gamallat, M. F. Khan, S. Riaz Din, M. Israr, **Manzoor Ahmad**, N. Tahir, N. Azam, K. Ur Rahman, W. Xin, W. Zexu, P. Linjie, P. Su, W. Liang. Natural Polyphyllins (I, II, D, VI, VII) Reverses Cancer Through Apoptosis, Autophagy, Mitophagy, Inflammation, and Necroptosis. *OncoTargets and Therapy*, 14, 1821–1841 (2021) (IF: 3.337)
39. Zainab, K. Saeed, Ammara, S. Ahmad, H. Ahmad, F. Ullah, A. Sadiq, A. Uddin, I. Khan and **Manzoor Ahmad**. Green Synthesis, Characterization and Cholinesterase Inhibitory Potential of Gold Nanoparticles. *Journal of the Mexican Chemical Society*. 65(3), 516-423 (2021) (IF = 0.538)
40. M. Shah, W. Murad, N. Rehman, S. A. Halim, **Manzoor Ahmad**, H. Rahman, M. Zahoor, S. Mubin, A. Khan, M. A. Nassan, G. Batiha, A. Al-Harrasi. Biomedical applications of *Scutellaria edelbergii* Rech. f. In vitro and In vivo approach. *Molecule*, 26(12), 3740 (2021) (IF = 4.927)
41. S. Ali, M. R. Shah, S. Hussain, S. Khan, A. Latif, **Manzoor Ahmad** and M. Ali. A Facile Approach Based on Functionalized Silver Nanoparticles as a Chemosensor for the Detection of Paraquat. *Journal of Cluster Science*. (Online published 2021) (IF = 1.731)
42. A. Khan, A. Khan, **Manzoor Ahmad**, M. Ali, U. Farooq, F. A. Khan, S. M. Bukhari. Antiglycation potential of Indegoferin A, Indegoferin B and Indegoferin C natural products from *Indigofera heterantha* Brandis. *Clinical Phytoscience*. 7(5), 1-6 (2021) (IF = 2.50)
43. M. Ibrahim, A. Latif, Ammara, A. Ali, A. I. Ribeiro, U. Farooq, F. Ullah, A. Khan, A. Al-Harrasi, **Manzoor Ahmad**, M. Ali. Macrocyclic sulfone derivatives: Synthesis, characterization, in vitro biological evaluation and molecular docking. *Drug Development Research*. 82(4), 562-574 (2021) (IF = 4.360)
44. S. Ali, M. Bacha, M. R. Shah, W. Shah, K. Kubra, A. Khan, **Manzoor Ahmad**, A. Latif, M. Ali. Green synthesis of silver and gold nanoparticles using *Crataegus oxyacantha* extract and their urease inhibitory activities" *Biotechnology and Applied Biochemistry*. 68(5), 992-1002 (2021) (IF = 2.431)

45. A. Latif, S. Bibi, S. Ali, Ammara, **Manzoor Ahmad**, A. Khan, A. Al-Harrasi, F. Ullah, M. Ali. New Multi-Target Directed Benzimidazole-2-thiol-Based Heterocycles as Prospective Anti-Radical and Anti-Alzheimer's Agents. *Drug Development Research*. 82(2), 207-216 (2021) (IF = 4.360)
46. B. Ahmad, **Manzoor Ahmad**, M. Y. Zaky, G. R Abdelbaset, Z. Ud Din, A. Hussain, B. Khan, P. Su, M. Alshwmi, G. Nabi, Y. Gamallat, F. Rahman, A. Rehman, T. Mahmood, M. N. K. Khattak, S. R. H. Shah. Gold nanoparticles, nanoinsulin preparation and its dose dependent effect on trace elements in Alloxan induced diabetic mice. *BIOCELL* 44(8-1):510-517 (2020) (IF: 2.821)
47. B. Ahmad, P. Su, S. R. H. Shah, S. Z. Khan, B. Hussain, F. Wahid, H. Ullah, S. Uddin, **Manzoor Ahmad** and N. Begum. Targeting Cancer through NF-KB Pathway with Selected Natural Products ( $\beta$ -Elemene, Puerarin and Gypenosides). *American Journal of Biomedical Science & Research*, 10(1), 50-53 (2020) DOI: 10.34297/AJBSR.2020.10.001472 (IF: IF. 1.628)
48. P. Su, B. Ahmad, H. Ullah, B Hussain, S. Z. Khan, M. S. Ahmad, J. Khan, **Manzoor Ahmad**. Targeting Cancer Through Autophagy With B-Elemene and Puerarin. *American Journal of Biomedical Science & Research*. 8(1), 51-53 (2020), (IF: IF. 1.628) DOI: 10.34297/AJBSR.2020.08.001237.
49. B. Ahmad, P. Su, S. Z. Khan, F. Wahid, H. Ullah, **Manzoor Ahmad**, B. Hussain, J. Khan, S. R. H. Shah and S. Uddin. Natural Products (Apigenin, Curcumin and Emodin) Cure Lung Cancer. *American Journal of Biomedical Science & Research*. 9(2), 158-161 (2020) (IF: IF. 1.628) DOI: 10.34297/AJBSR.2020.09.001375
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