Curriculum Vitae and List of Publications

Dr. Umer Rashid

Associate Professor

Department of Chemistry,
COMSATS University Islamabad,
Abbottabad Campus, PAKISTAN

American Chemical Society (ACS)
Reviewer Lab Graduate

HEC approved supervisor

Ex-Member American Chemical Society (ACS)
Ex-Member COMP-An ACS division of Computers in Chemistry
Member Chemical Society of Pakistan
Ex-IUPAC Affiliate Member

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Area of Interest

(1) Design, synthesis and development of novel small-molecule drugs and multitarget inhibitors to treat human diseases including cancer (e.g. breast cancer), metabolic diseases (e.g. type II diabetes) and neurological diseases (e.g. Alzheimer's disease (AD)) using medicinal chemistry strategies in association with computer-aided rational drug design. (2) Application of new computational and informatics methods and tools for drug design and discovery. (3) Development of novel organic synthetic methodologies to achieve efficient drug synthesis and diversity-oriented synthesis.

Personnel information

Father's Name:	Abdul Rashid
Date & Place of Birth	19 – 08 – 1973
NIC #	37405-1673741-3
Nationality	Pakistani
Marital status	Married
Mailing Address	Department of Chemistry, CUI, Abbottabad
Permanent Address	H. No. 39-D, Sector 4-B, Khayaban-e-Sirsyed, Rawalpindi, Pakistan
Phone No	+92 334 5171999
E – mail	umerrashid@cuiatd.edu.pk

Current Status

Associate Professor (Tenured)	Department of Chemistry, COMSATS University Islamabad, Abbottabad Campus, PAKISTAN

Academics

Ph.D.	**2011**	Organic/Medicinal Chemistry from Quaid-i-Azam University, Islamabad
M.Sc	**1997**	Chemistry (Punjab University (G.C. Lahore)
B.Sc.	**1994**	Chemistry, Botany, Geography (Punjab University, Lahore
F.Sc.	**1991**	Pre-Medical (Federal Government College for Men, H-9, Islamabad)
Matric	**1989**	Science (Federal Government High School N0.16, I-10/1, Islamabad)

Dissertations

Ph.D.	Dihydropyrimidines as potential drug candidates-Design, synthesis, bioevaluation and computational studies.
M.Sc.	Synthesis of Food dyes.

Post-Ph.D. Teaching/ Research Experiences (11 years)

1	Associate Professor (Tenured)	22-5-2023 to date	Department of Chemistry, COMSATS University Islamabad-Abbottabad Campus
2	Assistant Professor (*TTS*)	25-02-2016 to 21-5-2023	Department of Chemistry, COMSATS University Islamabad-Abbottabad Campus
3	Assistant Professor	24-08-2011 to 24-02-2016	Department of Chemistry, Hazara University, Mansehra

Research Projects

Project title	**Amount in Rs (million)**	**Agency**	**Project ID No.**	**Status: Submitted / Approved / Completed**
Tailoring the Substitution Pattern on Indanone and thiazolidinedione Core for Targeting Enzymes Associated with Alzheimer's Disease: Design, Synthesis and Biological Evaluations	8.68	HEC	20-14513/NRPU/R&D/HEC/2021 2021	Approved
Structure-based design and optimization of dihydropyrimidine-pteridine analogues as inhibitors of leishmania pteridine reductase and dihydrofolate reductase	5.2	HEC	5291/Federal/NRPU /R&D /HEC/2016	Completed
Design, synthesis and computational studies of dihydropyrimidine based urease and thymidine phosphorylase inhibitors	0.5	HEC	PM-IPFP/HRD/HEC /2011/346	Completed

Scholarships / Awards /Certificates

December 2022	Nominated for the 2023 RSC Medicinal Chemistry Emerging Investigator Lectureship Award
October 2022	Best Researcher Award, Department of Chemistry, COMSATS University, Abbottabad

August 2022	Appreciation letter on Best Performance, COMSATS University, Abbottabad
2016-2018	Research Productivity Award
Feb. 1, 2010 – Jul. 31, 2010	HEC scholarship under International Research Support Initiative Program (IRSIP) for doing a part of Ph.D. research at Christian Doppler Laboratory for Microwave Chemistry (CDLMC), Karl-Franzens-University, Austria.
Sep. 1, 2009- Jan. 31, 2010, not availed	DAAD scholarship awarded for Germany, Rostock university
June 2004-May 2007	Merit Scholarship, Quaid-i-Azam University, Islamabad

Keynote / Invited speaker / Resource Person in Workshops/conferences/ Symposium

February, 2023	Lecture on Rational Drug Design at University of Malakand, Chakdara
August 23, 2022	Keynote speaker at University of Wah, Wah Cantt.
August 17, 2022	University Of Gujrat
August 2, 2022	International Symposium on Computational Biology organized by Department of Biotecnology, COMSATS University, Abbottabad
July 2, 2022	International Symposium on Computational Chemistry, University of Agriculture, Faisalabad
November 28-29, 2018	Resource person, Molecular Modeling Workshop at Government Sadiq Women University, Bahawalpur
March 7-8, 2019	Resource person, Molecular Modelling Workshop, Department of Biotechnology, G.C University, Lahore

February 11-12, 2019	Speaker, First International Conference on Drug Discovery against Cancer and other diseases. University of Swabi

Membership of Learned Bodies

International	Member American Chemical Society (ACS)
	COMP-An ACS division of Computers in Chemistry
	IUPAC Affiliate member
National	Life Member, Chemical Society of Pakistan

Trainings / Courses

September 4-2019	ACS Lab Reviewer graduate
Feb. 3, 2010 – Jul. 25, 2010	Training in use of Microwave synthesizers (Biotage Initiator, CEM discover, Anton Paar microwave), Preparative chromatographic equipment (Biotage SP1), HPLC-UV, LCMS, GC-FID/GCMS in Christian Doppler Laboratory for Microwave Chemistry (CDLMC), Karl-Franzens-University, Austria

Co-curricular activities

March 2018 to Jan 2020	Secretary DARC, Department of Chemistry, COMSATS, Abbottabad
Sep. 2011 to Feb. 2016	Convener, Seminar Committee, Department of Chemistry, Hazara University, Mansehra
Jan. 2012-Dec.2012	Member Editorial board "Young Chemist

Editorial contribution / Manuscript Reviewer

1- Associate Editor, Frontiers in Chemistry, Medicinal and Pharmaceutical section: From September 1, 2022

2-	**Review Editor**, Frontiers in Chemistry, Medicinal and Pharmaceutical section
3-	Reviewer, Journal of Medicinal Chemistry (ACS)
4-	Reviewer, Journal of Natural Product Chemistry (ACS)
5-	Reviewer, European Journal of Medicinal Chemistry (Elsevier)
6-	Reviewer, Journal of Enzyme Inhibition and Medicinal Chemistry (Taylor and Francis)
7-	Reviewer, Future Medicinal Chemistry (Future Science UK)
8-	Reviewer, Bioorganic Chemistry (Elsevier)
9-	Reviewer, Journal of Molecular Structure (Elsevier)
10-	Reviewer, Computational Biology and Chemistry (Elsevier)

Ph.D students Under Supervision

Safi Ullah	Department of Chemistry, COMSATS University, Abbottabad
Anees Saeed	Department of Chemistry, COMSATS University, Abbottabad
Sadia Shaheen	Department of Chemistry, COMSATS University, Abbottabad

Ph.D students Supervised / Co-Supervised

1	Muhammad Aamir Javed (Supervision)	2022	Tailoring the Substitution Pattern on Pyrimidine and Pyrrolidine for Targeting Enzymes Associated with Alzheimer's Disease: Design, Synthesis and Biological Evaluation	Department of Chemistry, COMSATS University, Abbottabad
2	Miss Aysha (Co-Supervision)	2022		University Of Gujrat
3	Sajjad Ahmad (Co-Supervision)	2021	Appraisal of anti-nociceptive potentials of the synthesized Michael adducts	Department of Pharmacy University of Malakand

4	Fatima Iftikhar (Co-Supervision)	2019	Design, Synthesis, Computational Studies and Bio-evaluation of Novel N-Heterocycles from Pyrimidine Scaffold	Department of Chemistry, Hazara University, Mansehra

M. Phil. / MS Students Supervised (At COMSATS, Abbottabad)

#	Student Name	Thesis Title	**Status** Registered/ Completed
1			
2			
3			
4	Iqra Ejaz	Design and Synthesis of Pyrimidine Derivatives Targeting Estrogen Receptor-alpha for the Treatment of Breast Cancer	Completed
5	Ridha Jadoon	Design, Synthesis and Biological Evaluation of Thiazolidinedione Derivatives as Monoamine Oxidase-B Inhibitors	Completed
6	Saba Bibi	Design and Synthesis of 2-Aminothiazole-Based Multi-target Inhibitors to Tackle Cholinergic Deficit and Neuroinflammation in Alzheimer's Disease	Completed
7	Suleman Muraad	Design, Synthesis and Anti-cholinesterase Activity of Benzimidazole Derivatives	Completed
8	Rimsha Syed	Design, Synthesis and Molecular Modelling Study of Mefenamic Acid Analogs Endowed with Preferential COX-2 Inhibitory Activity	Completed
9	Sadia Khan	Tailoring the Substitution Pattern of Pyrrolidine-2,5-dione for Targeting Cyclooxygenase-2 Synthesis, Molecular Modeling, and Biological Evaluation as Anti-Inflammatory Agent	Completed
10	Nighat Ashraf (CIIT/SP18-R06-021/ATD)	Design and Synthesis of Sulfonamide Derivatives as Selective COX-2 Inhibitors	Completed
11	Zeeshan Khan (CIIT/SP18-R06-015/ATD)	Synthesis of Gallic acid and Thiazolidine-2,4-dione Based α-Glucosidase and α-Amylase Inhibitors	Completed
12	Azmat Ullah (CIIT/FA18-RCM-030/ATD)	Structure-Based Design and Optimization of Mimics of Methotrexate as Potential Antileishmanial Agents	Completed
13	Flak Shair (CUI/FA18-RCM-031/ATD)	Design, Synthesis, In-vivo and In-silico Studies of Gabapentin Derivatives as Antiepileptic Agents	Completed

14	Haleema Bibi (FA18-R06-013)	Synthesis and DFT Studies of unsymmetrical Polymethine Cyanine Dyes Having Different N-Hetrocyclic Rings	Completed
15	Sadia shaheen (FA18-R06-038)	Design and Synthesis of Thiourea Based Urease Inhibitors	Completed
16	Zaneb Kiran (CIIT/FA18-RCM-011/ATD)	Effect of Ligand Volume on AChE Inhibition: A Combined Synthetic and Computational Approach	Completed
17	Muhammad Bilal Tufail FA17-R06-016	Design, Synthesis and Pharmacological Evaluation of Progesterone and Pregnenolone Derivatives as Potent Anticancer Drugs	Completed
18	Memoona Pervaiz FA17-R06-039	Design and Synthesis of Piperazine and Piperidine Derivatives as Dual Binding Site Acetylcholinesterase Inhibitors	Completed
19	Sadaf Qureshi FA17-R06-028	Design, Synthesis and In Vitro Antibacterial Studies on Nitroimidazole Derivatives	Completed
20	Sana Malik FA17-R06-030	Theoretical Studies on Adsorption Ability of Zintl Ions for Hydrogen Storage	Completed
21	Mamoona FA17-R06-011	Identification of Diverse Scaffolds as Potential Inhibitors of Urease Using Matched Molecular Pairs and Scaffold Hopping Tools	Completed
22	Maria Bibi (FA16-R06-006)	Design, Synthesis and Docking Studies of Pyrimidines Derivatives as Potent Antileishmanial Drugs	Completed
23	Saba Tahir (FA16-R06-023)	Design, Synthesis and Anti-bacterial Studies of Piperazine Derivatives against Drug Resistant Bacteria	Completed
24	Muhammad Sajjad (SP17-R06-025)	Computer Guided Design and Synthesis of Dihydropyrimidine C-5 Acylhydroxamic Acid Derivatives as Potential Urease Inhibitors	Completed
25	Saba Tahir Tanoli (SP16-R06-007)	Computer assisted design, synthesis and bioevaluation of tricyclic fused ring system as dual binding site Acetylcholine esterase inhibitors	Completed
26	Maria Rasheed Khan (SP15-R06-012)	Design, Synthesis and Docking Studies of 1,2,4-Triazine Derived Schiff Base Metal Complexes as Potent Antileishmanial Drugs.	Completed

M. Phil. Supervised (At Hazara University, Mansehra)

1	Farhana Yaqoob	**2013**	Synthesis, C-6 modification and computational studies on dihydropyrimidine scaffold as thymidine phosphorylase inhibitors

2	Yousaf Ali	**2013**	Synthesis, C-5 modification and computational studies on Dihydropyrimidine scaffold as potent urease inhibitor
3	Riffat Sultana	**2013**	Synthesis, Molecular docking, structure–activity relationship and biological evaluation Dihydropyrimidines as antileishmanial agents
4	Syed Fahad Hassan (From University of Lahore)	**2013**	Medicinal Chemistry approaches in Drug Designing
5	M. Abeela (Co-Supervisor)	**2013**	Synthesis of imines prodrugs
6	Muhammad Jawad	**2014**	Design, Synthesis, Computational Studies and Bioevaluation Of Guanidine Containing Heterocycles
7	Farzana Bibi	**2014**	Computer Based Design and Synthesis of IL-2 Inhibitors
8	Afsheen Naz (Co-Supervisor)	**2014**	*Spectroscopic, DNA binding, molecular docking, partitioning and solubilization studies of new anticancer dihydropyrimidine derivatives*
9	Sufyan Ahmad	**2014**	*In silico* approach to design and synthesis of ligands for the treatment of Alzheimer's disease
10	Ambreen Altaf	**2015**	2-Aminopyrimidines from chalcones and their tin (IV) complexes: Synthesis, antibacterial activity and computational studies
11	Kaniz Zahra	**2015**	Synthesis and drug loading on SiO_2 coated Fe_3O_4 nanoparticles for treatment of Alzheimer's disease
12	Atta Ullah	**2015**	Synthesis and antibacterial activity of some new amino acid derivatives
13	Muhammad Ayaz	**2015**	Structural modification and bioevaluation of some commercial drugs using bioisosteric approach
14	Saeed Anwar	**2015**	Thionation of carbonyl compounds using Lawesson's reagent: A comparative account of thermal, acoustic and microwave approach

15	Nasir Ud Din	**2015**	Computer based design and synthesis of novel potential antibacterials against highly resistant selected strains of microorganisms
16	Sadia Bibi	**2015**	Design and synthesis of cyclic thioureas as urease inhibitors
17	Waqas Ahmad (co-supervisor)	**2015**	Synthesis and antibacterial activity of some new trimethoprim derivatives
18	Sadia Farooq	**2016**	Synthesis and biological activity of anthranilic acid derivatives
19	Sundus Rasheed	**2016**	Synthesis, characterization, bioevaluation and computational studies on quinolone derivatives
20	Huzaifa	**2016**	Synthesis and drug loading on SiO2 coated Fe3O4 nanoparticles in combating cancer
21	Ramzan Azhar	**2016**	Structural modification and bioevaluation of some commercial drugs containing carboxylic, amine and hydroxyl functionalities

External Examiner

SINES	NUST Islamabad
Department of Chemistry	Quaid-i-Azam University, Islamabad
Department of Chemistry	University of Gujrat, Gujrat
Department of Chemistry	Quaid-i-Azam University, Islamabad
Department of Chemistry	University of AJ&K, Muzaffarabad
Department of Chemistry	Hazara University, Mansehra
Department of Chemistry	Federal Urdu University, Karachi

Pre-Ph.D. Teaching/ Research & Industrial Experiences (12 years)

Visiting Ph.D Scholar	Feb. 2010 – July 2010	Christian Doppler Laboratory for Microwave Chemistry (CDLMC), Karl-Franzens University, Austria
Visiting Ph.D Scholar	July 2008- Sep. 2008	Dr. Punjwani Centre for Molecular Medicines & Drug Research (PCMD), Karachi, Pakistan
Plant Manager	Feb. - Aug. 2009	Neomedix Pharmaceuticals, Plot No. 5, N /5 National Industrial Zone, Rawat, Islamabad
Quality Control / Research & Development Manager	Aug 2005 – Jan 2009	Neomedix Pharmaceuticals, Plot No. 5, N /5 National Industrial Zone, Rawat, Islamabad
Analyst/Manager QC	Oct. 1997 to July. 2005	Islamabad Pharmaceutical Products, 34, Industrial Triangle, Islamabad.

List of Publications

Summary

Total Publications ---------- 137

Book Chapters ----------3

Review Articles---------3

Research Articles ---- 130

Total Impact Factor ---------- 550

Citations 2880

h-index = 32

i10-index = 80

Book Chapters		
No.	***Year***	***Complete Description***
1.	**2022**	Nishant Rai, Pramond Rawat, Rakesh K Bachheti, Navin Kumar, Abdul Rauf, **Umer Rashid,** Vijay Jyoti Kumar, Tanmay Sarkar, Raffaele Pezzani. Sustainable uses of medicinal plants and prospects; Chapter title, Characterization and docking studies of immunomodulatory active compounds from Rhododendron arboreum leaves. CRC / Taylor and Francis Books (Accepted 2022)
2.	**2020**	Muahmmad Naveed Anjum, Shoaib Ahmad Malik, Choudhary Haseeb Bilal, Umer Rashid, Muhammad Nasif, Khalid Mahmood Zia. Chapter 13 - Polyhydroxyalkanoates-based bionanocomposites. Bionanocomposites; Green Synthesis and Applications: Micro and Nano Technologies. 2020, Pages 321-333 https://www.sciencedirect.com/science/article/pii/B9780128167519000131#:~:text=Abstract,and%20bacteria%20and%20fermentation%20conditions.
3.	**2014**	**Umer Rashid**, Farzana Latif Ansari. ***Challenges in designing therapeutic agents for treating Alzheimer's disease-From serendipity to rationality***. *Drug Design and Discovery in Alzheimer's Disease* (Elsevier), (**2014)**, vol. 6 Chapter 2, pp 40-141 ISBN-13: 978-0128039595, ISBN-10: 0128039590

Research Articles (Published)			
2023			
1.	**2023**	Muhammad Shah, Muhammad Saeed Jan, Abdul Sadiq, Sara Khan, Umer Rashid. SAR and lead optimization of (Z)-5-(4-hydroxy-3-methoxybenzylidene)-3-(2-morpholinoacetyl)thiazolidine-2,4-dione as a potential multi-target antidiabetic agent. European Journal of Medicinal Chemistry 258 (2023) 115591	**6.7**

2.	**2023**	Qarib Ullah, Zarshad Ali, Umer Rashid, Gowhar Ali,* Nisar Ahmad, Rasool Khan, Sami Ullah, Muhammad Ayaz, and H C Ananda Murthy. Involvement of the Opioidergic Mechanism in the Analgesic Potential of a Novel Indazolone Derivative: Efficacy in the Management of Pain, Neuropathy, and Inflammation Using In Vivo and In Silico Approaches. ACS Omega 2023, 8, 25, 22809–22819	**4.1**

3.	**2023**	Aneela Gohar, Gowhar Ali, Umer Rashid, Khalid Rauf, Mehreen Arif, Muhammad Sona Khan, Yasser MSA Alkahramaan, Robert DE Sewell. Effect of Gabapentin-Fluoxetine Derivative GBP1F in a Murine Model of Depression, Anxiety and Cognition. Drug Design, Development and Therapy 2023:17 1793–1803	**4.319**
4.	**2023**	Abdur Rauf, Umer Rashid, Abdullah Muhammad Shbeer, Mohammed Al-Ghorbani, Naveed Muhammad, Anees Ahmed Khalil, Humaira Naz, Rohit Sharma & Giovanni Ribaudo. Flavonoids from Pistacia chinensis subsp. integerrima with leishmanicidal activity: computational and experimental evidence. Natural Product Research (Accepted)	**2.488**
5.	**2023**	Haleema Ali, Rasool Khan, Xiandao Pan, Farzana Shaheen, Almas Jabeen, Abdur Rauf, Muhammad Shah, Umer Rashid, Yahya S. Al-Awthan, Omar S. Bahattab, Mohammed A. Al-Duais, Mohammad S. Mubarak. Synthesis, characterization, anti-cancer, anti-inflammatory activities, and docking studies of 3, 5-disubstituted thiadiazine-2-thiones. Green Processing and Synthesis 2023; 12: 20228136	**3.970**
6.	**2023**	Abdur Rauf , Umer Rashid, Zafar Ali Shah, Gauhar Rehman, Kashif Bashir, Johar Jamil, - Iftikhar, Abdur Rahman, Abdulrahman Alsahammari, Metab Alharbi, Abdulmajeed Al-Shahrani, Giovanni Ribaudo. Anti-inflammatory and Anti-diabetic Activity of Ferruginan, a Natural Compound from Olea ferruginea. Processes (MDPI) 2023, 11, 545.	**3.352**
7.	**2023**	Imene Bayach, Atazaz Ahsin, Safi Ullah Majid, Umer Rashid, Nadeem S. Sheikh, and Khurshid Ayub. Geometric, electronic, and optoelectronic properties of carbon-2 based polynuclear C3O[C(CN)2]2M3 (where M=Li, Na, and K) 3 clusters; A DFT study. Molecules (Accepted)	**4.927**
8.	**2023**	Mater H. Mahnashi , Waqas Alam , Mohammed A. Huneif, Alqahtani Abdulwahab, Mohammed Jamaan Alzahrani, Khaled S. Alshaibari, Umar Rashid, Abdul Sadiq, and Muhammad Saeed Jan. Exploration of	**4.927**

		Succinimide Derivative as a Multi-Target, Anti-Diabetic Agent: In Vitro and In Vivo Approaches. Molecules, 2023, 28, 1589	
9.	**2023**	Mohammed A. Huneif , Mater H. Mahnashi, Muhammad Saeed Jan, Muhammad Shah, Sultan A. Almedhesh, Seham M. Alqahtani, Mohammad Jamaan Alzahrani, Muhammad Ayaz, Farhat Ullah, Umer Rashid and Abdul Sadiq. New Succinimide–Thiazolidinedione Hybrids as Multitarget Antidiabetic Agents: Design, Synthesis, Bioevaluation, and Molecular Modelling Studies. Molecules 2023, 28, 1207.	**4.927**
10.	**2023**	Nargis Sultana, Muhammad Sarfraz, Sidra Akram, Umer Rashid, Syed Ali Raza Naqvi, Muhammad Tariq, Khalid Mahmood Zia, Muhammad Ramzan Saeed Ashraf Janjua. Reactivity of 2,2-Disubstituted Quinazolinone Towards Electrophilic Substitution: First In-Silico Design to Verify Experimental Evidence of Quinazolinone-based New Organic Compounds. Journal of Physical Organic Chemistry, (Accepted) 20 January 2023	**2.155**
11.	**2023**	Bushra Ansari, Haroon Khan, Muhammad Saeed Jan, Khalaf F. Alsharif, Khalid J. Alzahrani, Umer Rashid, and Abdul Saboor Pirzada. Synthesis, Characterization, and Pharmacokinetic Studies of Thiazolidine-2,4-Dione Derivatives. Journal of Chemistry, Volume 2023, Article ID 9462176	**3.241**
12.	**2023**	Muhammad Aamir Javed, Muhammad Saeed Jan, Abdullah M. Shbeer, Mohammed Al-Ghorbani, Abdur Rauf, Polrat Wilairatana, Abdul Mannan, Abdul Sadiq, Umar Farooq, Umer Rashid. Evaluation of pyrimidine / pyrrolidine-sertraline based hybrids as multitarget anti-Alzheimer agents: In-vitro, in-vivo, and computational studies. Biomedicine & Pharmacotherapy 159 (2023) 114239	**7.410**
13.	**2023**	Muhammad Imran Qayyum, Sami Ullah, Obaidullah, Umer Rashid, Mater H. Mahnashi, Mohammed Merae Alshahrani, Amer Al Ali, Abdulaziz Asiri, Ahmed Abdullah Al Awadh, Osama M.Alshehri, Abdul Sadiq. Design, synthesis and preclinical evaluations of (s)-2-((s)-1-benzyl-2,5-dioxopyrrolidin-3-yl)-3-(4-isopropylphenyl)-2-methylpropanal (succ-5) as cardioprotective, hepatoprotective and lipid lowering molecule. in-vivo and in-silico approaches. Arabian Journal of Chemistry, Volume 16, Issue 2, 104504	**6.212**

14.	**2022**	Paras Nath Yadav, Shivani Sharma, Motee Lal Sharma, Abdur Rauf, Umer Rahid and Yuba Raj, Pokharel. Platinum (II) Complexes of 3-Hydroxypyridine-2-Carboxaldehyde, N(4)-Methyl and N(4)- Pyrrolidinyl Thiosemicarbazones: Synthesis, Characterization, and Primary Anticancer Screening against HeLa Cells, and Molecular Docking. Current Indian Science	**1.169**
2022			
15.	**2022**	Ridha Jadoon, Muhammad Aamir Javed, Muhammad Saeed Jan ,Ikram Muhammad,Mater H. Mahnashi ,Abdul Sadiq ,Muhammad Shahid, **Umer Rashid.** Design, synthesis, in-vitro, in-vivo and ex-vivo pharmacology of thiazolidine-2,4-dione derivatives as selective and reversible monoamine oxidase-B inhibitors, Bioorganic & Medicinal Chemistry Letters, 76, 2022, 128994	**2.94**
16.	**2022**	Hassan A. Hemeg, Abdur Rauf , **Umer Rashid**, Naveed Muhammad, Yahya S. Al-Awthan , Omar S. Bahattab , Mohammed A. Al-Duais, Syed Uzair Ali Shah, and Rohit Sharma. In-Vitro Leishmanicidal Activity and Molecular Docking Simulations of a Flavonoid Isolated from Pistacia integerrima Stew ex Brandis. Journal of Food Quality, Volume 2022 | Article ID 6003869	**3.200**
17.	**2022**	Muhammad Imran Qayyum, Sami Ullah, **Umer Rashid**, Abdul Sadiq, Obaid Ullah, Mater H Mahnashi, Osama M. Alshehri, Mohammed M. Jalal, KhalidJ. Alzahrani, Ibrahim F. Halawani. Synthesis, molecular docking and preclinical evaluation of new succinimide derivative for cardioprotective, hepatoprotective and lipid lowering effects. Molecules 2022, 27(19), 6199;	**4.927**

18.	**2022**	Sana Shamim, Somia Gul, Abdur Rauf, **Umer Rashid**, Ajmal Khan, Rafat Amin, Faiza Akhtar. Gemifloxacin-transition metal complexes as therapeutic candidates: antimicrobial, antifungal, anti-enzymatic and docking studies of newly synthesized complexes. Heliyon 2022;8(8):e10378.	**3.776**
19.	**2022**	Hassan A. Hemeg, Abdur Rauf, **Umer Rashid**, Naveed Muhammad, Yahya S. Al-Awthan, Omar S. Bahattab, Mohammed A. Al-Duais, Syed Uzair Ali Shah. In vitro α-glycosidase inhibition and in silico studies of	**3.246**

		Flavonoids isolated from Pistacia integerrima Stew ex Brandis. BioMed Research International, Volume 2022, Article ID 9636436, 6 pages	
20.	**2022**	Muhammad Aamir Javed, Saba Bibi, Muhammad Saeed Jan, Muhammad Ikram, Asma Zaidi, Umar Farooq, Abdul Sadiq and **Umer Rashid**. Diclofenac derivatives as concomitant inhibitors of cholinesterase, monoamine oxidase, cyclooxygenase-2 and 5-lipoxygenase for the treatment of Alzheimer's disease: Synthesis, pharmacology, toxicity and docking studies. RSC Advances 2022, 12, 22503–22517	**4.036**
21.	**2022**	Wajeeha Waseem, Fareeha Anwar, Uzma Saleem, Bashir Ahmad, Rehman Zafar, Asifa Anwar, Muhammad Saeed Jan, **Umer Rashid**, Abdul Sadiq, Tariq Ismail. Prospective Evaluation of Amide Based Zinc Scaffold as Anti-Alzheimer Agent: In-Vitro, In-Vivo and Computational Studies. ACS Omega 2022, 7, 26723−26737	**4.132**
22.		Wahid Zada, Jonathan W VanRyzin, Miguel Perez-Pouchoulen, Samantha L Baglot, Matthew N Hill, Ghulam Abbas, Sarah M. Clark, Umer Rashid, Margaret M McCarthy, Abdul Mannan. Fatty acid amide hydrolase inhibition and N-arachidonoylethanolamine modulation by isoflavonoids: A novel target for upcoming antidepressants. Pharmacology Research & Perspectives (Accepted)	**2.963**
23.	**2022**	Fawad Mahmood, Jamshaid Ali Khan, Mater H. Mahnashi, Muhammad Saeed Jan, Muhammad Aamir Javed, Umer Rashid, Abdul Sadiq, Syed Shams ul Hassan, Simona Bungau. Anti-Inflammatory, Analgesic and Antioxidant Potential of New (2S,3S)-2-(4-isopropylbenzyl)-2-methyl-4-nitro-3-phenylbutanals and Their Corresponding Carboxylic Acids through In Vitro, In Silico and In Vivo Studies, Molecules 2022, 27, 4068.	**4.927**

24.	**2022**	Bandar A. Alyami, Iqra Ejaz, Mater H. Mahnashi, Yahya S. Alqahtani, Ali O. Alqarni, Muhammad Saeed Jan, Abdul Sadiq, Umer Rashid. Design, synthesis, antiproliferative activity, estrogen receptors binding affinity of C-3 pregnenolone-dihydropyrimidine derivatives for the treatment of breast cancer. Steroids 185 (2022) 109059	**2.76**
25.	**2022**	Zainab Ayaz, Bibi Zainab, Umer Rashid, Noura M. Darwish, Mansour K. Gatasheh, and Arshad Mehmood Abbasi. In Silico Screening of Synthetic and Natural Compounds to Inhibit the Binding Capacity of Heavy Metal	**3.246**

		Compounds against EGFR Protein of Lung Cancer. BioMed Research International. Volume 2022, Article ID 2941962, 12 pages	
26.	**2022**	Abdul Sadiq; Mater H. Mahnashi; Umer Rashid; Muhammad Saeed Jan; Mohammed Abdulrahman Alshahrani; Mohammed A. Huneif; 3-(((1S,3S)-3-((R)-Hydroxy(4-(trifluoromethyl)phenyl)methyl)-4-oxocyclo hexyl)methyl)pentane-2,4-dione: Design and Synthesis of New Stereo pure Multi-Target Antidiabetic Agent. Molecules 2022, 27(10), 3265	**4.927**
27.	**2022**	Abdullah S. M. Aljohani; Fahad A. Alhumaydhi; Abdur Rauf; Essam M. Hamad; Umer Rashid. In Vivo and in vitro biological evaluation and molecular docking studies of compound isolated from Micromeria biflora (Buch. Ham. ex D.Don) Benth. Molecules 2022, 27(11), 3377	**4.927**
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