Dr. Mohammad Abid, *PhD*

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Medicinal Chemistry Lab, Department of Biosciences,
Faculty of Life Sciences,
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Section Editor (Current Indian Science): ***Medicinal Chemistry/Docking studies***
Executive Guest Editor: ***Current Topics in Medicinal Chemistry (CTMC), Bentham Science publications***

About

My research work is deeply engaged in computer-aided design and subsequent synthesis of small molecule inhibitors, leveraging computational tools to develop novel therapeutic agents. Additionally, my work extends to the synthesis and biological evaluation of bioactive natural scaffolds and their derivatives, exploring their potential for drug discovery. Furthermore, I am dedicated to the structure-based design of enzyme inhibitors targeting antimicrobial pathways, aiming to combat the rise of antibiotic resistance. Alongside this, I am actively involved in developing new synthetic methodologies to make more efficient the process of drug development. Through interdisciplinary approaches, my research aims to advance our understanding of disease mechanisms and pave the way for the development of innovative treatments.

Academic Credentials				
B.Sc. in Chemistry (**2000**) from Aligarh Muslim University, Aligarh with First Class.				
M.Sc. in Organic Chemistry (**2002**) from Aligarh Muslim University with distinction.				
Ph.D. in Organic and Medicinal Chemistry (**2005**) from Department of Chemistry, JMI, New Delhi.				
Publication Statistics				
Total publications	Total Citations	*h*-Index	*i*10-Index	Book Chapter
91	**2850**	**30**	**60**	**04**

Highlights of the Lab:	**Research Interests:** Computer-aided design and subsequent synthesis of small molecule inhibitors; Synthesis and biological studies of bioactive natural scaffolds and their derivatives; Structure-based design of enzyme Inhibitors for antimicrobial targets and development of new synthetic methodologies.
No. of Ph.D. produced as Supervisor: **07** No. of Ph.D. produced as Co-Supervisor: **05** Postdoctoral Fellowship guided: **02** Dissertations supervised at PG level: **55** students	

Patent granted/published	
2021 **GRANTED**	Triazole-amino acid-based hybrid as potential inhibitor for *Candida* infection. Application Number 201611008628, **Publication date 15/09/2017.**
2022 **GRANTED**	A process for the synthesis of *N*-substituted 4-quinolone derivatives via LIHMDS-induced in situ cyclocondensation. Application Number 201711002639, **Publication date 27/07/2018.**
2024 **GRANTED**	Natural product based 1,2,3-triazole pharmacophore as potential chemotherapeutic agent for bacterial infections. Application number 201711046505, **Publication date 28/06/2019.**
2024 Published & under examination.	A process for synthesizing Chloro-Quinoline Based Hybrids and Uses Thereof. Application number 201811034848, date of filing 15/09/2018, **Publication date 20/08/2021.**
2024 Published & under examination.	A process for synthesizing 1,2,4-oxadiazole-sulfonamide based hybrids and uses thereof. Application number 201911037884, date of filing 19.09.2019, **Publication date 26.03.2021**
Professional recognition, awards, fellowships received	
2016-2017	RAMAN Postdoctoral Fellowship awarded by UGC, Govt. of India to work at *Eppley Institute for Research in Cancer & Allied Diseases*, UNMC, Omaha, USA
2014	Travel grant from SERB, DST, Govt. of India and JMI, New Delhi to present a paper in **15th Tetrahedron Symposium-Asia Edition Conference** during 28-31 Oct. 2014 held in **SINGAPORE**
2011	**Indian Academy of Sciences-Summer Research Fellowship** for TWO months with *Prof. S. Chandrasekaran*, Department of Organic Chemistry, IISc Bangalore
2008-2010	Postdoctoral Fellowship **(PDF)** for a period of 18 months with *Prof. Isabelle ARTAUD*, UMR-8601 at **University Paris Descartes, Paris, FRANCE**
August 2005-Dec 2005	Research Associate ship (**RA**) for 5 months under a **DST** Project at *Department of Organic Chemistry*, IIT Kanpur
2004-2005	Senior Research Fellowship **(SRF)** under a **CSIR** Project for one year at Department of Chemistry, JMI New Delhi
2002-2004	Junior Research Fellowship **(JRF)** under a **CSIR** Project for two years at Department of Chemistry, JMI New Delhi during Sept 2002 to Sept 2004.
2002-2002	**Post Graduate Merit scholarship** for two years (**2000-2002**) awarded by Department of Chemistry, AMU
2001-2002	**CSIR-NET** (National Eligibility Test for Lectureship) in Dec **2001.** **GATE** conducted by IISc Bangalore with **88.54** percentile (**2002**).
Affiliation/membership to Scientific societies	
Member, American Chemical Society (**ACS, Membership No.31076842)**), Member, Royal Society of Chemistry London (**RSC, Membership No.580055**), Society of Biological Chemists India (**Life-Member**), Chemical Research Society of India (**Life-Member**),	

Asian Council of Science Editors (**Membership No.91.10079**). **IUPAC** Sponsored Affiliate Member.	
Projects undertaken as PI/Co-PI (funds generated as PI = 78.48 lacs)	
2012-2015	*Design & synthesis of novel peptidomimetic antibacterial agents funded by* Science & Engineering Research Board (SERB), DST, Govt. of India (**Role:PI**)
2012-2015	*Synthesis and Pharmacodynamic studies in the efficacy of new diketo acid and triazole based antifungal agents funded by* University Grant Commission (UGC), Govt. of India (**Role: PI**).
2015-2019	*Designing and structure-function characterization of antithrombin specific non-heparin coagulation modulators with ability to inhibit thrombosis in vivo funded by* Science & Engineering Research Board (SERB), DST, Govt. of India (**Role: Co-PI**)
2020-2023	*Pre-clinical development of falcipain inhibitors as potent antimlarials* (**Role: PI**) in *collaboration with Prof. Shailja Singh, SCMM, JNU*(**Co-PI**) *funded by* Science & Engineering Research Board (SERB), DST, Govt. of India.
Administrative responsibilities	
2022-23 ***2023-24***	**Assistant Superintendent** to conduct various Semester/Entrance exams at Faculty of Life sciences, JMI.
2022-23	**Assistant Superintendent** to conduct PG Semester end exams of Biosciences, Faculty of Life sciences.
2023-till date	**Deputy Coordinator,** Jamia Alumni Connect Cell (JAC), JMI
2022-till date	**Nodal Officer**, Jamia Alumni Connect Cell (JAC), JMI
2022-till date	**Sr. Warden**, Hall of Residence (Boys), MMA Hall of Boys' Residence, JMI
2022-till date	**Member** of the Departmental sub-purchase committee, Biosciences, JMI
2022-till date	**Member** of the sub-purchase committee, FRK Hostel, JMI
2021-till date	**Student Advisor,** *Bioscience Subject Association,* Department of Biosciences, JMI
2020-2022	**Member** of the University Patent Committee, JMI
2019-2022	**Assistant Superintendent** in various Semester/Entrance exams of the Faculty of Natural Sciences, JMI
2017-2019	**Warden/Sports in charge,** *Hall of Residence (Boys), Dr Zakir Hussain Hall,* JMI
2017-2019	**Assistant Proctor,** JMI, New Delhi
2013-2016	**Student Advisor,** *Bioscience Subject Association,* Department of Biosciences, JMI.
2015-2016	**Warden,** *Hall of Residence (Boys), Dr Zakir Hussain Hall,* JMI
Courses taught at UG/PG and PhD level	
Curriculum Development	B.Sc. Biosciences and MSc Biochemistry
UG	BSB-203 (Chemistry-I), BSB-303 (Chemistry-II), BSB-604

	(Techniques in Biology)
PG	BCM-101 (Organic Chemistry & Biomolecules), BCM-105 Lab Course-I, BCM-205 (Biochemical Techniques).
Ph.D.	Ph.D. Biosciences Course Work-Research Methodology

Special issue Guest Editor

Special Issue on *Challenges and Opportunities in Anticandidal Drug Discovery & Development* published in ***Letters in Drug Design and Discovery*** (Bentham Publications) *date of publication:* ***July 2019;***

Guest Editor: Special Issue on "*Biochemistry and Medicinal Chemistry of Blood Stage-Malaria Infection*"to be published in ***Current Topics in Medicinal Chemistry*** date of publication: **Feb 2023**

Conferences/workshops organized

- Organized Extension lecture series on *Recent Advances in Biosciences under the edges of Biosciences Subject Association* in **March 2014**.
- Organized Extension lecture series on *Recent Advances in Biosciences under Biosciences Subject Association* in **March 2015**.
- Organized Extension lecture series on *Recent Advances in Biosciences under the edges of Biosciences Subject Association* in **March 2016**.
- Treasurer in UGC-SAP sponsored National Seminar on *Metal Toxicity and Oxidative Stress* Organized by Department of Biosciences, JMI, New Delhi in **September 2014**.
- **Member of Organizing Committee** in National Conference on *Interdisciplinary Approaches in Chemical Sciences (IACS-2015)*, at CIRBSc, Jamia Millia Islamia, New Delhi in **December 2015**.
- **Co-Convener** in National Conference in *Recent Advances in Biological Sciences (NCRABS-2020)* organized by Department of Biosciences, JMI in **March 2020**.
- **Member of Organizing Committee** in National Conference on *Interdisciplinary Approaches in Chemical Sciences (IACS-2023)*, at CIRBSc, Jamia Millia Islamia, New Delhi in **march 16, 2023.**
- **Convener** in Two days Symposia and Workshop on Current Era of Bioinformatics ***(CEB-2023)*** organized by Department of Biosciences, JMI during **09-10 October, 2023**.

Professional training received

- ***100th four-week Orientation Programme***, organized by UGC-Academic Staff College, JMI, New Delhi from 09th April to 05th May, 2012.
- ***3rd three-week Refresher Course*** in Basic Sciences organised by UGC-ASC, JMI from 09th May to 30 May 2013.
- ***01st three-week Refresher Course*** in Contemporary Studies (Interdisciplinary) organised by UGC-HRDC, JMI from 15th November to 06 December 2017.
- ***01st ONLINE two-week Refresher Course*** in Basic Sciences, organized by UGC-HRDC, Jamia Millia Islamia, New Delhi from 10th Sept to 23 Sept. 2020.
- ***Third ONLINE two-week Refresher Course*** in Basic Sciences, organized by UGC-HRDC, Jamia Millia Islamia, New Delhi from 02 August 2022 to 18 August 2022.
- ***Online Training workshop Ethics for Research Involving Human Participants*** organized by faculty of Dentistry, Jamia Millia Islamia, New Delhi on 7th March, 2022.
- ***National Intellectual property Awareness Mission*** organized by **Intellectual property Office, India** on May 25, 2022.
- ***One day Seminar on Intellectual property Rights*** organized by **Central Instrumentation Facility, JMI** on February 28, 2022.
- ***One week National Online Faculty Development Programme on Research Writing Skills in Higher Education*** organized by Faculty of Education, Jamia Millia Islamia, New Delhi from

December13-18,2021.

Students guided for Ph.D.

S. no.	Name of Student	Ph.D. Title	Date of Registration	Date of completion	Role as
1.	Mohammad Irfan	*Antifungal evaluation and molecular docking studies of new azole derivatives against Candida spp.*	19-09-2012	Defended on 25th April, 2017	*Supervisor*
2.	Babita Aneja	*Synthesis, biological activity and SAR studies of some novel heterocyclic compounds*	24-09-2013	Defended on 31st May 2018	*Co-Supervisor*
3.	Phool Hasan	*Synthesis and Characterization of N, O and S containing heterocyclic compounds and evaluation of their antimicrobial potentiality*	Dec 2014	Defended in April, 2018	*Co-supervisor*
4.	Mir Mohammad Masood	*Synthesis, biological evaluation and docking studies of some novel heterocyclic compounds*	*01-10-2014*	*Defended in Dec 2017*	*Co-supervisor*
5.	Bhumika Kumar	*Characterization of Metacaspase-3 (MCA-3) as a New Potential Drug Target for Malaria*	*26-09-2013*	*Defended on 18 August 2020*	*Supervisor*
6.	Farheen Shamsi	*Synthesis in vitro assessment and docking studies of novel Sulfonamide based anticancer organic scaffolds and their molecular analysis*	*30-09-2014*	*Defended on 25 August 2020*	*Supervisor*
7.	Irshad Ahmad	*Synthesis and structure function analysis of novel coagulation modulators*	*Dec 2019*	*Defended in 2020*	*Co-supervisor*
8.	Amaduddin	*Structure based designing and biological evaluation of falcipain inhibitors as potent Antimalarials*	*Dec 2017*	*Defended in 2023*	*Supervisor*
9.	Mohd. Sarfaraz	*Structure- based designing and biological evaluation of MARK4 kinase inhibitors for cancer therapy*	*Dec 2017*	*Defended on 11 March 2024*	*Supervisor*

10.	Ms. Farhat Habib	*Design and synthesis of Substituted Oxadiazoles as potential antimicrobial Agents*	*Dec 2017*	*Defended on 02 July 13, 2024*	*Co-Supervisor*
11.	Ms. Kashish Azeem	*Interaction study of antimalarials with serum albumins using biophysical and computational approaches*	*15 Oct 2019*	*Defended on 7th March, 2024*	*Supervisor*
12.	Ms. Rumaisha Shoeb	*Characterization and small molecule targeting of prefoldin of Plasmodium falciparum: A novel class of molecular co-chaperone*	*Sept 2019*	*Thesis submitted*	*Supervisor*
13.	Mohammad Shakir	*Synthesis and biological evaluation of nitrogen and oxygen heterocycles*	*27 May, 2021*	*Ongoing*	*Co-Supervisor*
14.	Haider Thaer Abdulhameed Almuqdadi	*Identification of potent antimalarials through chemoinformatics and biological evaluation.*	*Jan 2022*	*Ongoing*	*Supervisor*
15.	Sobia Khan	*Deciphering the anti-aggregating efficacy of small molecules against amyloid beta to cure Alzheimer's disease*	*April 2024*	*Ongoing*	*Supervisor*
16.	Andaleeb Zahra	*Study on the effectiveness of nano formulation derived from medicinal plant extract against Burkholderia pseudomallei*	*April 2024*	*Ongoing*	*Supervisor*
17.	Rukhsar Israr	*Utilizing computational methods and rational drug design for antimalarial drug discovery*	*April 2024*	*Ongoing*	*Supervisor*
18.	Farhana Naaz	*Investigating biophysical interaction and computational binding: Studies of phytocompounds with human epidermal growth factor receptor 2 (HER 2) in breast cancer*	*April 2024*	*Ongoing*	*Supervisor*

Publications

S. N.	**Title**	**I.F.**
91.	Synthesis and Neurobehavioral Evaluation of a Potent Multitargeted Inhibitor for the Treatment of Alzheimer's Disease. Mohd Shahnawaz Khan, Zuber Khan, Nasimudeen R. Jabir, Sidharth Mehan, Mohd Suhail, Syed Kashif Zaidi, Torki A. Zughaibi, **Mohammad Abid*** & Shams Tabrez.	**4.6**

	Molecular Neurobiology, 2024, 15 July 2024.	
90.	Prefoldins are novel regulators of the unfolded protein response in artemisinin resistant P. falciparum malaria. Rumaisha Shoaib, Nidha Parveen, Vikash Kumar, Ankita Behl, Swati Garg, Preeti Chaudhary, Devasahayam Arokia Balaya Rex, Monika Saini, Preeti Maurya, Ravi Jain, Kailash C Pandey, **Mohammad Abid**, Shailja Singh. ***Journal of Biological Chemistry***, 2024, 107496	4.0
89.	Journey of von hippel-lindau (VHL) E3 ligase in PROTACs design: From VHL ligands to VHL-based degraders. Nisha Setia, Haider Thaer Abdulhameed Almuqdadi, **Mohammad Abid***, ***European Journal of Medicinal Chemistry*** , 2024, 116041.	7.1
88.	Vanillin-Isatin Hybrid-Induced MARK4 Inhibition As a Promising Therapeutic Strategy against Hepatocellular Carcinoma. Sarfraz Ahmed, Aarfa Queen, Iram Irfan, Mohammad Naseem Siddiqui, Haider Thaer Abdulhameed Almuqdadi and **Mohammad Abid***. ***ACS Omega* 2024**, Publication Date: June 5, 2024.	4.1
87.	An in silico approach for identification of lead compound as FtsZ inhibitor. Kifayat, S., Almuqdadi, H.T.A., **Mohammad Abid*** Singh, R.P. *et al.* ***Mol Diversity*** (2024). https://doi.org/10.1007/s11030-023-10787-4	3.8
86.	Blood-stage antimalarial activity, favourable metabolic stability and in vivo toxicity of novel piperazine linked 7-chloroquinoline-triazole conjugates. Uddin, A., Gupta, S., Shoaib, R., Aneja, B., Irfan, I., Gupta, K., ... & **Mohammad Abid*** (2024). ***European Journal of Medicinal Chemistry***, *264*, 115969.	7.1
85.	Synergistic antimicrobial activity, MD simulation studies and crystal structure of natural alcohol motif containing novel substituted cinnamates. Irfan, I., Ali, A., Ubaid, A., Sherwani, Y., Arora, B., Khan, M. M., ... & **Mohammad Abid*.** (2024). ***Journal of Biomolecular Structure and Dynamics***, *42*(1), 211-230.	6.2
84.	Biological evaluation of novel side chain containing CQTrICh-analogs as antimalarials and their development as PfCDPK1 kinase inhibitors. Irfan, I., Uddin, A., Jain, R., Gupta, A., Gupta, S., Napoleon, J. V., ... & **Mohammad Abid*,** Singh, S. (2024). ***Heliyon***, *10*(3).	4
83.	Pd-catalyzed synthesis, characterization, and biological evaluations of pyrazole derivatives: DFT, molecular modelling and antioxidant studies. ***Journal of Organometallic Chemistry*, *2024,*** *1005*, 122994.	2.3
82.	Evaluating Terrestrol A as an Inhibitor Against SARS-CoV-2and Invasive Fungal Pathogens: A Comprehensive Computational Analysis. Basanta Singha, Bhoomika Arora, Rituparna Karmaker, Kikoleho Richa, Naruti Longkumer, Haider Thaer Abdulhameed, **Mohammad Abid***, Upasana Bora Sinha (2024). ***ChemistrySelect***, *9*(14), e202304761.	2.3
	Irfan, I., Shahi, D., Joshi, M. C., Singh, S., & **Mohammad Abid***. (2023). Emerging Paradigm of Ivermectin and its Hybrids in Elimination of Malaria. ***Chemistry and Biological Activities of Ivermectin***, 93-119.	
81.	Mechanistic understanding of Candida albicans biofilm formation and approaches for its inhibition. Atriwal, T.*, Kashish Azeem *, Husain, F. M., Hussain, A., Khan, M. N., Alajmi, M. F., & **Mohammad Abid***. (2021). ***Frontiers in Microbiology***, *12*, 638609.	5.2

80.	A Comprehensive Multispectroscopic and Computational Analysis of the Interaction between Plant-Based Antiplasmodial Compounds and Bovine Serum Albumin. Kashish Azeem, Abdulhameed, H. T., Hussain, A., Amir, S., Parveen, M., Patel, R., & **Mohammad Abid***. (2024). ***ACS omega***, *9 (5)* 5576–5591 *I.F.-3.5*	3.5
79.	Comparative Investigation on Interaction of Potent Antimalarials with Human Serum Albumin via Multispectroscopic and Computational Approaches. Kashish Azeem, Ahmed, M., Uddin, A., Singh, S., Patel, R., & **Mohammad Abid***. (2023). ***Luminescence***, *38 (12)* 2018-2033	*2.9*
78.	Recent Updates on Interaction Studies and Drug Delivery of Antimalarials with Serum Albumin proteins. Kashish Azeem, Irfan, I., Rashid, Q., Singh, S., Patel, R., & **Mohammad Abid***. (2024). ***Current Medicinal Chemistry***.	*4.1*
77.	Design, Synthesis and Mechanistic Studies of Novel Isatin-Pyrazole Hydrazone Conjugates as Selective and Potent Bacterial MetAP Inhibitors. Iram Irfan, Asghar Ali, Bharati Reddi, Mohd Abrar Khan, Phool Hasan, Sarfraz Ahmed, AmadUddin, Magdalena Piatek, Kevin Kavanagh, Qazi Mohd Rizwanul Haque, Shailja Singh, Anthony Addlagatta, **Mohammad Abid*.** ***Antibiotics, 022, 11(8), 112, (2022).***	5.2
76.	A multi-spectroscopic and computational simulations study to delineate the interaction between antimalarial drug hydroxychloroquine and human serum albumin. Kashish Azeem, Mofieed Ahmed, Taj Mohammad, AmadUddin, Anas Shamsi, Md. Imtaiyaz Hassan, Shailja Singh, Rajan Patel, **Mohammad Abid*.** ***Journal of Biomolecular Structure and Dynamics, 2022 Aug 4;1-17.***	6.2
75.	A Network-Guided Approach to Discover Phytochemical-Based Anticancer Therapy: Targeting MARK4 for Hepatocellular Carcinoma. Sarfraz Ahmed, Mohammad Mobashir, Lamya Ahmed Al-Keridis, Nawaf Alshammari, Mohd. Adnan, **Mohammad Abid*** and Md Imtaiyaz Hassan. ***Frontiers in Oncology*****,** *2022 Jul 22;12:914032*.	5.7
74.	Comparative structural insight into prefoldin subunints of archaea and eukaryotes with special emphasis on unexplored prefoldin of Plasmodium falciparum. Vikash Kumar, Ankita Behl, Rumaisha Shoaib, **Mohammad Abid**, Maxim Shevtsov, Shailja Singh. ***Journal of Biomolecular Structure and Dynamics***, *2022 May;40(8):3804-3818.*	5.2
73.	Prefoldin subunit 6 of Plasmodium falciparum binds merozoite surface protein-1. Vikash Kumar, Rumaisha Shoaib, Ankita Behl, Akshay Munjal, **Mohammad Abid**, Shailja Singh. ***FEBS Open Bio***, *2022 May;12(5):1050-1060.*	2.7
72.	Mannose 2, 3, 4, 5, 6-*O*-pentasulfate (MPS): a partial activator of human heparin cofactor II with anticoagulation potential. Shadabi Bano, Abdul Burhan Khan, Sana Fatima, Qudsia Rashid, Amresh Prakash, Neha Gupta, Irshad Ahmad, Shoyab Ansari, Andrew M. Lynn, **Mohammad Abid** & Mohamad Aman Jairajpuri. ***Journal of Biomolecular Structure and Dynamics, 2022, Published online: 28 Mar 2022.***	5.2
71.	Structural-activity Relationship of Metallo-aminoquines as Next Generation Antimalarials. **Mohammad Abid,** Singh, Shailja; Egan, Timothy J.; Joshi, Mukesh C. ***Current Topics in Medicinal Chemistry, Volume 22, Number 6, 2022, pp. 436-472(37).***	3.5
70.	Target-Based Virtual Screening of Natural Compounds Identifies a Potent Antimalarial With Selective Falcipain-2 Inhibitory Activity. Amad Uddin, Sonal Gupta, Taj Mohammad, Diksha Shahi, Afzal Hussain, Mohamed F Alajmi, Hesham R El-Seedi, Imtaiyaz Hassan, Shailja Singh, **Mohammad Abid*** ***Frontiers in pharmacology, 13, 2022***.	5.9

69.	Development of Oxadiazole-Sulfonamide-Based Compounds as Potential Antibacterial Agents. Asghar Ali, Phool Hasan, Mohammad Irfan, Amad Uddin, Ashba Khan, Juhi Saraswat, Ronan Maguire, Kevin Kavanagh, Rajan Patel, Mukesh C Joshi, Amir Azam, Mohd Mohsin, Qazi Mohd Rizwanul Haque, **Mohammad Abid*** ***ACS omega, 2021, 6, 27798-27813***.	4.1
68.	Assessment of Dihydro [1, 3] oxazine-Fused Isoflavone and 4-Thionoisoflavone Hybrids as Antibacterials. Ankit Lathwal, Asghar Ali, Amad Uddin, Nashra Shareef Khan, Gerard Sheehan, Kevin Kavanagh, Qazi Mohd Rizwanul Haq, **Mohammad Abid***, Mahendra Nath. ***ChemistrySelect. 7505-7513, 6, 2021.***	2.3
67.	Mechanistic Understanding of Candida albicans Biofilm Formation and Approaches for Its Inhibition. Tanu Atriwal, Kashish Azeem, Fohad Mabood Husain, Afzal Hussain, Muhammed Nadeem Khan, Mohamed F Alajmi, **Mohammad Abid***. ***Frontiers in Microbiology, 12, 638-609, 2021.***	6.0
66.	Synthesis, Biological Evaluation and Docking Studies of Functionalized Pyrrolo[3,4-*b*]pyridine Derivatives. Younes SA Ghanem, Amad Uddin, Sarfaraz Khan, **Mohammad Abid***, Md Musawwer Khan. ***ChemistrySelect, 6, 2323-2334, 2021.***	2.3
65.	Interaction of Plasmodium falciparum apicortin with α-and β-tubulin is critical for parasite growth and survival. Malabika Chakrabarti, Nishant Joshi, Geeta Kumari, Preeti Singh, Rumaisha Shoaib, Akshay Munjal, Vikash Kumar, Ankita Behl, **Mohammad Abid**, Swati Garg, Sonal Gupta, Shailja Singh. ***Scientific Reports, 11, 1-16, 2021***.	4.9
64.	Targeting metacaspase-3 from *Plasmodium falciparum* towards antimalarial therapy: A combined approach of *in-silico* and *in-vitro* investigation. Bhumika Kumar, Taj Mohammad, Amaduddin, Afzal Hussain, Asimul Islam, Faizan Ahmad, Mohamed F Alajmi, Shailja Singh, Kailash C Pandey, Md Imtaiyaz Hassan, **Mohammad Abid*.** ***Journal of Biomolecular Structure and Dynamics, 39, 421-430, 2021.***	5.2
63.	Medicinal chemistry updates on quinoline-and endoperoxide-based hybrids with potent antimalarial activity. Amad Uddin, Meenal Chawla, Iram Irfan, Shubhra Mahajan, Shailja Singh, **Mohammad Abid*.** ***RSC Medicinal Chemistry, 12, 24-42, 2021.***	2.4
62.	Reactive oxygen mediated apoptosis as a therapeutic approach against opportunistic Candida albicans, Tanu Atriwal, Meenal Chawla, Afzal Hussain, Mohamed F Alajmi, **Mohammad Abid*.** ***Adv Protein Chem Struct Biol, 2021; 125:25-49.***	5.4
61.	Ferulic Hydroxamic Acid Triazole Hybrids as Peptide Deformylase Inhibitors: Synthesis, Molecular Modelling and Biological Evaluation. Babita Aneja, Parvez Khan, Shadab Alam, Phool Hasan, **Mohammad Abid*.** ***Chemistry Select 2020, 5, 11420-11430.***	2.3
60.	Identification and structure-activity relationship (SAR) studies of carvacrol derivatives as potential anti-malarial against Plasmodium falciparum Falcipain-2 protease. Amad Uddin, Vigyasa Singh, Iram Irfan, Taj Mohammad, Rahul Singh Hada, Md Imtaiyaz Hassan, **Mohammad Abid*,** Shailja Singh. ***Bioorganic Chemistry, 2020, 103, 104142***.	5.2
59.	Quercetin 3, 3', 4', 5, 7-O-pentasulfate (QPS): A novel activator of protein disulfide isomerase. Abdul Burhan Khan, Neha Gupta, Qudsia Rashid, Irshad Ahmad, Shadabi Bano, Urfi Siddiqui, **Mohammad Abid**, Mohamad Aman Jairajpuri. ***Medicine in Drug Discovery, 2020, 1-11.***	3.3
58.	Facile synthesis of chalcone derivatives as antibacterial agents: Synthesis, DNA binding, molecular docking, DFT and antioxidant studies. Rizwan Arif, Manish Rana, Shama Yasmeen, Md Shahzad Khan, **Mohammad Abid***, MS Khan. ***Journal of Molecular Structure, 2020, 1208, 127905***.	3.8
57.	Design, synthesis & biological evaluation of ferulic acid-based small molecule inhibitors against tumor-associated carbonic anhydrase IX. Babita Aneja, Aarfa Queen, Parvez Khan, Farheen Shamsi, Afzal Hussain Phool Hasan, Md. Imtaiyaz Hassan, **Mohammad Abid*.** ***Bioorganic & Medicinal Chemistry, 115424, 2020.***	3.6
56.	Synthesis and SAR studies of novel 1, 2, 4-oxadiazole-sulfonamide based compounds as potential anticancer agents for colorectal cancer therapy. Farheen Shamsi, Phool Hasan, Aarfa Queen, Afzal Hussain, Parvez Khan, Bushra Zeya, Hannah M. King, Sandeep Rana, Jered Garrison, Mohamed F.	5.275

	Alajmi, M. Moshahid Alam Rizvi, Muhammad Zahid, Md Imtaiyaz Hassan, **Mohammad Abid*.** ***Bioorganic Chemistry, Volume 98, May 2020, 103754.***	
55.	Facile synthesis of chalcone derivatives as antibacterial agents: Synthesis, DNA binding, molecular docking, DFT and antioxidant studies. Rizwan Arif, Manish Rana, Shama Yasmeen, Md Shahzad Khan, **Mohammad Abid***, MS Khan. ***Journal of Molecular Structure, Volume 1208, 15 May 2020, 127905.***	3.841
54.	Biofilm inhibition and DNA binding studies of isoxazole-triazole conjugates in the development of effective anti-bacterial agents. Farhat Habib, Shadab Alam, Afzal Hussain, Babita Aneja, Mohammad Irfan, Mohamed F Alajmi, Phool Hasan, Parvez Khan, Md Tabish Rehman, Omar Mohammed Noman, Amir Azam, **Mohammad Abid*.** ***Journal of Molecular Structure, Volume 1201, 5 February 2020, 127144.***	3.841
53.	Inhibition of Hemoglobin Degrading Protease Falcipain-2 as a Mechanism for Anti-Malarial Activity of Triazole-Amino Acid Hybrids. Vigyasa Singh, Rahul Singh Hada, Babita Aneja, **Mohammad Abid***, Kailash C Pandey, Shailja Singh. ***Current Topics in Medicinal Chemistry. 2020;20(5):377-389.***	3.57
52.	Investigation of DNA binding and molecular docking propensity of phthalimide derivatives: in vitro antibacterial and antioxidant assay. Rizwan Arif, Pattan Sirajuddin Nayab, **Mohammad Abid**, Umesh Yadava. ***Journal of Analytical Science and Technology, 10, Article number: 19 (2019).***	2.769
51.	Synthesis, Anticancer Evaluation and DNA-Binding Spectroscopic Insights of Quinoline-Based 1, 3, 4-Oxadiazole-1, 2, 3-triazole Conjugates, Farheen Shamsi, Babita Aneja, Phool Hasan, Bushra Zeya, M Zafaryab, Syed Hassan Mehdi, M Moshahid Alam Rizvi, Rajan Patel, Sandeep Rana, **Mohammad Abid*.** ***Chemistry Select, 2019, 4, 12176-12182.***	2.307
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