

Dr. Mohammad Abid

UGC-RAMAN Fellow

Assistant Professor
Department of Biosciences
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Field of Specialization: Structure based drug design and medicinal Chemistry

Research interests

My research group is involved in multidisciplinary research projects in the areas of synthetic organic, bioorganic and medicinal chemistry. Of particular interest, we are investigating:

- 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
- Development of new synthetic methodologies

Research Experience:

UGC-RAMAN Fellowship	Eppley Institute for Research in Cancer & Allied Diseases, University of Nebraska Medical Center, Omaha, USA	July 2016-July 2017	Visiting Assistant Professor
Post-doctoral Fellowship	Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques, UMR-8601, University Paris Descartes, Paris, FRANCE	Sept. 2008-Jan. 2010	Post-doctoral Fellow
Indian Academy of Sciences-Research Fellowship	Department of Organic Chemistry, IISc Bangalore	May 2011-July 2011	INSA-Teacher Fellow
Post-doctoral Fellowship	Department of Organic Chemistry, IIT Kanpur	Aug. 2005 to Dec. 2005	Research Associate
Senior Research Fellowship (SRF)	Department of Chemistry, JMI New Delhi	Oct. 2004 to July 2005	SRF
Junior Research Fellowship (JRF)	Department of Chemistry, JMI New Delhi	Sept 2002 to Sept 2004	JRF

Projects undertaken:

Name of Project	Funding Agency	Duration	Amount sanctioned	Status
Design & synthesis of novel peptidomimetic antibacterial agents (Role: PI)	Science & Engineering Research Board (SERB), DST, Govt. of India	2012-2015	18.50 Lacs	Completed
Synthesis and Pharmacodynamic studies in the efficacy of new diketo acid and triazole based antifungal agents (Role: PI)	University Grant Commission (UGC), Govt. of India	2012-2015	10.08 Lacs	Completed

Designing and structure-function characterization of antithrombin specific non-heparin coagulation modulators with ability to inhibit thrombosis <i>in vivo</i> (Role: Co-PI)	Science & Engineering Research Board (SERB), DST, Govt. of India	2015-2019	46.2 Lacs	On-going
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Patents Filed:

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
1.	Triazole-amino acid-based hybrid as potential inhibitor for <i>Candida</i> infection	Mohammad Abid, Babita Aneja, Mohammad Irfan, Nikhat Manzoor, Amir Azam	20161008628	Filed on 11/03/2016	Indian Patent	Published
2.	Triazole-amino acid-based hybrids as potential antifungal drug for <i>Candida</i> infection	Mohammad Abid, Babita Aneja, Mohammad Irfan, Kevin Kavanagh, Amir Azam	201611006284	Filed on 23/02/2016	Indian Patent	Published
3.	A method to reduce <i>in vivo</i> thrombus formation and platelet aggregation using Quercetin 3, 3', 4', 5, 7-O-pentasulfate, as a potential antithrombotic and antiplatelet agent	Mohamad Aman Jairajpuri, Mohammad Abid, Qudsia Rashid, Neha Gupta	E-1/31677/2016-DEL	Filed on 24/09/2016	Indian Patent	Filed
4.	A process for the synthesis of N-substituted 4-quinolone derivatives via LiHMDS-induced <i>in situ</i> cyclocondensation	Mohammad Abid, Phool Hasan, Babita Aneja.	E-1/2647/2017-DEL	Filed on 24/1/2017	Indian Patent	Filed
5.	Natural product based 1,2,3-triazole pharmacophore as potential chemotherapeutic agents against bacterial infections	Mohammad Abid, Babita Aneja,	TEMP/E-1/45742/2017-DEL	Filed on 23.12.2017	Indian Patent	Filed
6.	A method for reduction of <i>in vivo</i> thrombus formation using Diosmin 2'',2''',3',3''',4'',4''',5-O-octasulfate (DOS), as a potential	Mohamad Aman Jairajpuri, Mohammad Abid, Qudsia Rashid, Neha Gupta	201811006488	April 2018	Indian Patent	Filed

	antithrombotic agent					
7.	A method to reduce thrombus formation using Esculin 7, 3', 4', 5', 6'-O-pentasulfate (EPS) as a promising antithrombotic agent.	Mohamad Aman Jairajpuri, Mohamad Abid, Qudsia Rashid, Neha Gupta	201811006489	April 2018	Indian Patent	Filed

14. Books/Reports/Chapters/General articles etc.

S.No	Title	Author's Name	Publisher	Year of Publication
1.	Chapter: Nanoparticles as Targeted Drug Delivery Agents: Synthesis, Mechanism and Applications Book: Adv Struct Mater	Rahisuddin, Pattan Sirajuddin Nayab, Akrema, Rizwan Arif, Mohammad Abid	Springer	2017

15. Any other Information (maximum 500 words)

Guest Editor: Special Issue on Challenges and Opportunities in Anticandidal Drug Discovery & Development to be published in Letters in Drug Design and Discovery (Bentham Publications) date of publication: **Dec 2018**

Total Publications>40; Impact factor: >100; Citations: 948; h index-15; i10 Index-19 (Google scholar)

Key Publications:

- Babita Aneja, Mudsser Azam, Shadab Alam, Ahmad Perwez, Ronan Maguire, Umesh Yadava, Kevin Kavanagh, Constantin G Daniliuc, M Moshahid A Rizvi, Qazi Mohd Rizwanul Haq, Mohammad Abid*, Natural Product-Based 1, 2, 3-Triazole/Sulfonate Analogues as Potential Chemotherapeutic Agents for Bacterial Infections, *ACS Omega*, **2018**, 3, 6, 6912-6930.
- Caroline M Robb, Jacob I Contreras, Smit Kour, Margaret A Taylor, **Mohammad Abid**, Yogesh A Sonawane, Muhammad Zahid, Darryl J Murry, Amarnath Natarajan, Sandeep Rana. Chemically induced degradation of CDK9 by a proteolysis targeting chimera (PROTAC). *Chemical Communications*, **2017**, 53, 7577 (IF: 6.5).
- Mohammad Irfan, Shadab Alam, Nikhat Manzoor, **Mohammad Abid***. Effect of quinoline based 1, 2, 3-triazole and its structural analogues on growth and virulence attributes of *Candida albicans*. *PLOS ONE* **2017** 12(4): e0175710. (IF: 3.05).
- Mohammad Abid***, Yogesh A. Sonawane, Jacob I. Contreras, Sandeep Rana and Amarnath Natarajan. Recent Advances in Cancer Drug Development: Targeting Induced Myeloid Cell Leukemia-1 (Mcl-1) Differentiation protein. (Invited Review) *Current Medicinal Chemistry* **2017**, **17**, 1-27. (IF: 3.249)
- Aneja, Babita; Irfan, Mohammad; Kapil, Charu; Jairajpuri, Mohamad Aman; Maguire, Ronan; Kavanagh, Kevin; Rizvi, M Moshahid A; Manzoor, Nikhat; Azam, Amir; **Mohammad Abid***. Effect of novel triazole–amino acid hybrids on growth and virulence of *Candida* species: in vitro and in vivo studies. *Organic & Biomolecular Chemistry* **2016**, **14**, **45**, 10599-10619. (IF: 3.559).
- Babita Aneja, Mohammad Irfan, Md. Imtaiyaz Hassan, Prakash Amresh, Umesh Yadava, Constantin G. Daniliuc, Amir Azam, **Mohammad Abid***. Monocyclic beta-lactam and unexpected oxazinone formation: synthesis, crystal structure, docking studies and antibacterial evaluation. *Journal of Enzyme Inhibition & Medicinal Chemistry* **2015** (May, 2015), (IF: 4.293).
- Mir Mohammad Masood, Vijay K. Pillalamarri, Mohammad Irfan, Babita Aneja, Mohamad Aman Jairajpuri, Md. Zafaryab, M. Moshahid A. Rizvi, Umesh Yadava, Anthony Addlagatta, **Mohammad Abid***. Diketo acids and their amino acid/dipeptidic analogues as promising scaffolds for the

development of bacterial methionine aminopeptidase inhibitors. *RSC Advances* **2015**, 5, 34173. (IF: 3.289).

- Mohammad Irfan, Babita Aneja, Umesh Yadava, Shabana I. Khan, Nikhat Manzoor, Constantin G. Daniliuc, **Mohammad Abid***. Synthesis, QSAR and anticandidal evaluation of 1,2,3-triazoles derived from naturally bioactive scaffolds. *European Journal of Medicinal Chemistry*, 93, **2015**, 246-254. (IF: 4.519).

Research Guidance:

PhD guided: 04 Ongoing: 04
 Master's dissertation: 18 Ongoing: 04

Students guided for Ph.D.:

S . N o.	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 <i>Candida</i> spp.	19-09-2012	Defended on 25 th April, 2017	Supervisor
2.	Babita Aneja	Synthesis, biological activity and SAR studies of some novel heterocyclic compounds	24-09-2013	Defended on 31 st 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	Ongoing	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	Ongoing	Supervisor
7.	Mohd. Sarfaraz	Structure based designing and biological evaluation of	Dec 2017	Ongoing	Supervisor

		MARK4 kinase inhibitors for cancer therapy			
8.	Amaduddin	Structure based designing and biological evaluation of falcipain inhibitors as potent antimalarials	Dec 2017	Ongoing	Supervisor
9.	Farhat Habib	Design and Synthesis of substituted Oxadiazoles as potential antimicrobial agents	Dec 2017	Ongoing	Co-supervisor

Affiliation/membership to scientific societies:

- Member of the **American Chemical Society (Membership No. 31076842)**
- Member of the **Royal Society of Chemistry London (Membership No. 580055)**
- Member of the Asian Council of Science Editors (**Membership No. 91.10079**)
- Society of Biological Chemists India (Life Member LM 3156).
- Chemical Research Society of India (Life member LM 1410).
- Former Member-Indian Chemical Society (2004).
- Former Member-**American Chemical Society** (2009)
- **IUPAC** Sponsored Affiliate Member (2009-2014).

Administrative Responsibilities

July 2013-May 2016

Student Advisor, Bioscience Subject Association,
Department of Biosciences, Jamia Millia Islamia.

Aug 2015-July 2016

Warden, Hall of Residence (Boys), Dr Zakir Hussain Hall

July 2017-til date

Warden/Sports In charge, Hall of Residence (Boys), Dr Zakir Hussain Hall

July 2017-til date

Assistant Proctor, Jamia Millia Islamia, New Delhi

Projects guided at Postgraduate Level: 18

1. Abuzar Irfan: 2011-12
2. MithyTatak: 2011-12
3. Nishant Kumar: 2011-12
4. Anamika Sharma: 2012-13
5. Zeenat Khatoon: 2012-13
6. Nasreen Afsar: 2012-13
7. Md. Mukuibur Rahman: 2013-14
8. Nabeela Mofazzal: 2013-14
9. Waseem Chauhan: 2013-14
10. Masidur Rahman: 2014-2015
11. Ms. Shagufa: 2014-2015
12. Ms. Anam (B.Tech. Biotech Amity University): 2015
13. Mohd. Yunus: 2015-2016
14. Sneha Singh: 2015-2016
15. Shiblee Usama: 2017-18
16. Shubhra Mahajan: 2017-18
17. Vivek Gupta: 2017-18
18. Vidya Sagar: 2017-18

Conference/ Workshop 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**.
- Worked as Treasurer in UGC-SAP sponsored National Seminar on Metal Toxicity and Oxidative Stress Organized by Department of Biosciences, JMI, New Delhi (**September 23-24, 2014**).
- Member of Local organizing Committee in National Conference on Interdisciplinary Approaches in Chemical Sciences (IACS-2015), at CIRBSc, Jamia Millia Islamia, New Delhi (**December 16, 2015**).

Publications (List of papers published in SCI Journals, in year wise descending order).

Total Citations: 935, h index: 15, i10 Index: 18 (Google scholar as on June 20, 2018)

S.No.	Author(s)	Title	Name of Journal	Vol.	Pg.	Yr.
1.	Irshad Ahmad, S Sharma, Neha Gupta, Qudisia Rashid, Mohammad Abid , MZ Ashraf, MA Jairajpuri	Antithrombotic potential of esculin 7, 3', 4', 5', 6'-O-pentasulfate (EPS) for its role in thrombus reduction using rat thrombosis model.	<i>International journal of biological macromolecules (Elsevier)</i>	-	-	2018
2.	Babita Aneja, Mudsser Azam, Shadab Alam, Ahmad Perwez, Ronan Maguire, Umesh Yadava, Kevin Kavanagh, Constantin G. Daniliuc, M. Moshahid A. Rizvi, Qazi Mohd. Rizwanul Haq, Mohammad Abid*	Natural product based 1,2,3-triazole/ sulfonate analogues as potential chemotherapeutic agent for bacterial infections	<i>ACS Omega (ACS)</i>	3	6912 – 6930	2018
3.	Babita Aneja, Rizwan Arif, Ahmad Perwez, John V. Napoleon, Phool Hasan, M. Moshahid A. Rizvi, Amir Azam, Rahisuddin, and Mohammad Abid*	N-Substituted 1,2,3-Triazolyl-Appended Indole-Chalcone Hybrids as Potential DNA Intercalators Endowed with Antioxidant and Anticancer Properties.	<i>Chemistry Select (Wiley)</i>	3	2638-2645	2018
4.	Babita Aneja, Meena Kumari, Amir Azam, Amit Kumar, Mohammad	Effect of triazole-tryptophan hybrid on the conformation stability of bovine serum albumin	<i>Luminescence A Journal of Biological and Chemical</i>	33	464-474	2018

	Abid* , Rajan Patel*		<i>Luminescence (Wiley)</i>			
5.	Rizwan Arif, Pattan S. Nayab, Istikhhar A. Ansari, M. Shahid, Mohammad Irfan, Shadab Alam, Mohammad Abid , Rahisuddin*.	Synthesis, molecular docking and DNA binding studies of phthalimide-based copper (II) complex: In vitro antibacterial, hemolytic and antioxidant assessment.	<i>Journal of Molecular Structure (Elsevier)</i>	1160	142-153	2018
6.	Mir Mohammad Masood, Mohammad Irfan, Shadab Alam, Phool Hasan, Aarfa Queen, Shifa Shahid, Muhammad Zahid, Amir Azam, Mohammad Abid*	Synthesis, antimicrobial evaluation and in silico studies of novel 2,4-disubstituted-1,3-thiazole derivatives	<i>Letters in Drug Design & Discovery (Bentham Science)</i>	-	-	2018
7.	Caroline M Robb, Jacob I Contreras, Smit Kour, Margaret A Taylor, Mohammad Abid , Yogesh A Sonawane, Muhammad Zahid, Darryl J Murry, Amarnath Natarajan, Sandeep Rana.	Chemically induced degradation of CDK9 by a proteolysis targeting chimera (PROTAC)	<i>Chemical Communications (RSC)</i>	53	7577	2017
8.	Mohammad Abid* , Yogesh A. Sonawane, Jacob I. Contreras, Sandeep Rana and Amarnath Natarajan	Recent Advances in Cancer Drug Development: Targeting Induced Myeloid Cell Leukemia-1 (Mcl-1) Differentiation protein	<i>Current Medicinal Chemistry (Bentham Science)</i>	24	4488-4514	2017
9.	Farheen Shamsi, M. Moshahid A. Rizvi, Mohammad Abid*	The upshot of PI3K Inhibitors as anticancer arsenal: A short Review	<i>Current Bioactive Compounds (Bentham Science)</i>	-	-	2017
10.	Mohammad Irfan, Shadab Alam, Nikhat Manzoor, Mohammad Abid*	Effect of quinoline based 1, 2, 3-triazole and its structural analogues on growth and virulence attributes of <i>Candida albicans</i>	<i>PLOS ONE (PLOS)</i>	12	e0175710	2017
11.	Mir Mohammad Masood, Phool Hasan, Shams Tabrez, Md. Bilal Ahmad, Umesh Yadava, Constantin G. Daniliuc, Yogesh A. Sonawane,	Anti-leishmanial and cytotoxic activities of amino acid-triazole hybrids: Synthesis, biological evaluation, molecular docking and in silico physico-chemical properties	<i>Bioorganic Medicinal Chemistry Letters (Elsevier)</i>	27	1886-1891	2017

	Amir Azam, Abdur Rub, Mohammad Abid*					
12.	Phool Hasan, BabitaAneja, Mir M. Masood, Md. Belal Ahmad, Umesh Yadava, Constantin G. Daniliuc and Mohammad Abid*	Efficient synthesis of novel N-substituted 2-carboxy-4-quinolones via lithium bis(trimethylsilyl)amide (LiHMDS)-induced <i>in situ</i> cyclocondensation reaction	<i>RSC Advances (Royal Society of Chemistry)</i>	7	11367-11372	2017
13.	M. Yusuf, Amanpreet Kaur, Mohammad Abid	Synthesis, antimicrobial studies and docking simulations of new bis(4,5-dihydropyrazole) derivatives	<i>Journal of Heterocyclic Chemistry</i>	March	-	2017
14.	Mohammad Abid , Farheen Shamsi and Amir Azam	Ruthenium Complexes: An emerging ground to the development of metallopharmaceuticals for cancer therapy	<i>Mini Reviews in Medicinal Chemistry(Bentham Science)</i>	16	772-786	2016
15.	BabitaAneja, Bhumika Kumar, Mohamad Aman Jairajpuri, Mohammad Abid*	Structure guided drug-discovery approach towards identification of Plasmodium Inhibitors	<i>RSC Advances (Royal Society of Chemistry)</i>	6	18364-18406	2016
16.	Aneja, Babita; Irfan, Mohammad; Kapil, Charu; Jairajpuri, Mohamad Aman; Maguire, Ronan; Kavanagh, Kevin; Rizvi, M Moshahid A; Manzoor, Nikhat; Azam, Amir; Mohammad Abid*	Effect of novel triazole–amino acid hybrids on growth and virulence of Candida species: in vitro and in vivo studies	<i>Organic & Biomolecular Chemistry(Royal Society of Chemistry)</i>	14	10599	2016
17.	Mohammad Irfan, Shabana I. Khan, and Mohammad Abid*	Biological potential and in silico ADME prediction of 1,2,3-triazoles derived from naturally bioactive alcohols	<i>Anti-Infective Agents(Bentham Science)</i>	14	126-131	2016
18.	Shadab Alam, Phool Hasan, BabitaAneja, Umesh Yadava, Constantin G. Daniliuc, Mohammad Abid*	Synthesis and crystal structure analysis of monocyclic β -lactam derivatives	<i>Structural Chemistry and Crystallographic Communications</i>	2	1-7	2016
19.	Shadab Alam, Phool Hasan, BabitaAneja, Mohammad Abid*	POCl ₃ mediated Staudinger reaction of imines with ketenes: Synthesis of monocyclic β -lactam and 1,3-oxazinone derivatives	<i>Rasayan Journal of Chemistry</i>	9	101-111	2016
20.	Pattan Sirajuddin Nayab,	Experimental and Molecular Docking Investigation on DNA	<i>Luminescence A Journal</i>	32	298-308	2016

	Mohammad Irfan, Mohammad Abid , Rahisuddin	Interaction of N-Substituted Phthalimides: Antibacterial, Antioxidant and Hemolytic Activities	<i>of Biological and Chemical Luminescence (Wiley)</i>			
21.	Mir Mohammad Masood, Babita Aneja, Amir Azam, Mohammad Abid*	Efficient multistep synthesis and spectral characterization of dihydropyrrolo[3,2-c]pyridine-4-one derivatives	<i>Rasayan Journal of Chemistry</i>	9	234-242	2016
22.	BabitaAneja, Mohammad Irfan, Md. Imtaiyaz Hassan, Prakash Amresh, Umesh Yadava, Constantin G. Daniliuc, Amir Azam, Mohammad Abid*	Monocyclic beta-lactam and unexpected oxazinone formation: synthesis, crystal structure, dockingstudies and antibacterial evaluation	<i>Journal of Enzyme Inhibition & Medicinal Chemistry</i>	31	834-852	2015
23.	Mir Mohammad Masood, Vijay K. Pillalamarri, Mohammad Irfan, BabitaAneja, Mohamad Aman Jairajpuri, Md. Zafaryab, M. Moshahid A. Rizvi, Umesh Yadava, AnthonyAddlagatta, Mohammad Abid*	Diketo acids and their amino acid/dipeptidic analogues as promising scaffolds for the development of bacterial methionine aminopeptidase inhibitors	<i>RSC Advances(Royal Society of Chemistry)</i>	5	34173	2015
24.	Qudsia Rashid, Mohammad Abid , Neha Gupta, Tarun Tyagi, Mohd Zahid Ashraf, Mohamad Aman Jairajpuri	Polysulfatedtrehalose as a novel anticoagulant agent with dual mode of action	<i>BioMed Research International (Hindawi Publications)</i>	2015	1-16	2015
25.	Mohammad Irfan, BabitaAneja, Umesh Yadava, Shabana I. Khan, Nikhat Manzoor, Constantin G. Daniliuc, Mohammad Abid*	Synthesis, QSAR and anticandidal evaluation of 1,2,3-triazoles derived from naturally bioactive scaffolds	<i>European Journal of Medicinal Chemistry (Elsevier)</i>	93	246-254	2015
26.	Mohammad Irfan, Mohammad Abid*	Three-dimensional structure modeling of lanosterol 14- α demethylase of <i>Candida albicans</i> and docking studies with new triazole derivatives	<i>Chemical Informatics</i>	1	1-8	2015
27.	PattanSirajuddinNayab, MadhusudanaPulganti,	Evaluation of DNA Binding, Radicals Scavenging and Antimicrobial Studies of	<i>Journal of Fluorescence</i>	25	1905-1920	2015

	Suresh Kumar Chitta, Mohammad Abid , Rahisuddin	Newly Synthesized N-Substituted Naphthalimides: Spectroscopic and Molecular Docking Investigations				
28.	Qudsia Rashid, Mohammad Abid , Mohammad Aman Jairajpuri	Elucidating the specificity of non-heparin-based conformational activators of antithrombin for factor Xa inhibition	<i>J. Nat. Sci. Biol. Med</i>	5	36-42	2014
29.	Qudsia Rashid, Poonam Singh, Mohammad Abid , Mohammad Aman Jairajpuri	Limitations of conventional anticoagulant therapy and the promises of non-heparin based conformational activators of antithrombin	<i>J. Thromb. Thrombolysis</i>	34	251-259	2012
30.	Mohammad Abid , Abdul Roouf Bhat, Fareeda Athar, Amir Azam	Synthesis, spectral studies and antiamebic activity of new 1-N-substituted thiocarbamoyl-3-phenyl-2-pyrazolines	<i>European Journal of Medicinal Chemistry(Elsevier)</i>	44	417-425	2009
31.	Kakul Husain, Mohammad Abid , Amir Azam	Novel Pd(II) complexes of 1-N-substituted 3-phenyl-2-pyrazoline derivatives and evaluation of antiamebic activity	<i>European Journal of Medicinal Chemistry(Elsevier)</i>	43	393-403	2008
32.	Mohammad Abid , Subhash M. Agarwal, Amir Azam	Synthesis and antiamebic activity of metronidazole thiosemicarbazone analogues	<i>European Journal of Medicinal Chemistry(Elsevier)</i>	43	2035-2039	2008
33.	Asha Budakoti, Mohammad Abid , Amir Azam	Syntheses, characterization and in vitro antiamebic activity of new Pd(II) complexes with 1-N-substituted thiocarbamoyl-3,5-diphenyl-2-pyrazoline derivatives	<i>European Journal of Medicinal Chemistry(Elsevier)</i>	42	544-551	2007
34.	Kakul Husain, Mohammad Abid , Amir Azam	Synthesis, characterization and antiamebic activity of new indole-3-carboxaldehyde thiosemicarbazones and their Pd(II) complexes	<i>European Journal of Medicinal Chemistry(Elsevier)</i>	42	1300-1308	2007
35.	Asha Budakoti, Mohammad Abid , Amir Azam	Synthesis and antiamebic activity of new 1-N-substituted thiocarbamoyl-3,5-diphenyl-2-pyrazoline derivatives and their Pd(II) complexes	<i>European Journal of Medicinal Chemistry(Elsevier)</i>	41	63-70	2006
36.	Mannar R. Maurya, Amit Kumar, Mohammad Abid , Amir Azam	Dioxovanadium(V) and I-oxo bis[oxovanadium(V)] complexes containing thiosemicarbazone based ONS donor set and their antiamebic activity	<i>Inorganica Chimica Acta(Elsevier)</i>	359	2439-2447	2006
37.	Mohammad Abid , Amir Azam	Synthesis, characterization and antiamebic activity of 1-(thiazolo[4,5-b]quinoxaline-2-yl)-3-phenyl-2-pyrazoline derivatives	<i>Bioorganic & Medicinal Chemistry Letters(Elsevier)</i>	16	2812-2816	2006
38.	Maurya MR, Agarwal S, Mohammad Abid	Synthesis, characterisation, reactivity and in vitro antiamebic activity of	<i>Dalton Transactions(Royal</i>	21	937-47	2006

	, Azam A, Bader C, Ebel M, Rehder D	hydrazone based oxovanadium(IV), oxovanadium(V) and mu-bis(oxo)bis{oxovanadium(V)} complexes	<i>Society of Chemistry</i>			
39.	Mohammad Abid and Amir Azam	Synthesis and antiamoebic activities of 1- <i>N</i> -substituted cyclised pyrazoline analogues of thiosemicarbazones	<i>Bioorganic & Medicinal Chemistry(E Isevier)</i>	13	2213-2220	2005
40.	Mohammad Abid and Amir Azam	1- <i>N</i> -Substituted Thiocarbamoyl-3-Phenyl-2-Pyrazolines: Synthesis and In Vitro Antiamoebic Activities	<i>European Journal of Medicinal Chemistry(E Isevier)</i>	40	935-942	2005
41.	Mohammad Abid , Kakul Husain, Amir Azam	Synthesis and antiamoebic activity of new oxime ether derivatives containing 2-acetylpyridine/2-acetylfuran	<i>Bioorganic & Medicinal Chemistry Letters(Else vier)</i>	15	4375-4379	2005
42.	Athar F, Husain K, Mohammad Abid , Agarwal SM, Coles SJ, Hursthouse MB, MauryaMR, Azam A	Synthesis and Anti-Amoebic Activity of Gold(I), Ruthenium(II), and Copper(II) Complexes of Metronidazole	<i>Chemistry Biodiversity (Wiley)</i>	2	1320-30	2005