

**Dr. AFREEN INAM**

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Date of Birth: 3rd November, 1987

Date of Joining: 26th November 2019

Area of Research: Synthetic organic chemistry & Medicinal Chemistry.

- Drug discovery and development
- Target based designing of enzyme inhibitors for protozoal infections.
- Synthesis of novel heterocyclic molecules using multistep synthesis and developing innovative synthetic methodologies.

Teaching Experience

Assistant Professor (Contractual), JMI, New-Delhi: 24/10/2017 to 25/11/2019
(With Session Breaks)
Assistant Professor, JMI, New-Delhi: 26/11/2019 till present

Ph.D. Work

Thesis title: Synthesis, Characterization and Biological Evaluation of some Heterocyclic Based Compounds

ACADEMIC RECORDS:

Class	Passing year	Institute	% marks
Ph.D. (Organic Chemistry)	2016	Jamia Millia Islamia, New Delhi	Awarded
M.Sc. (Organic Chemistry)	2011	Jamia Millia Islamia, New Delhi	77.7%
B.Ed.	2009	Jamia Millia Islamia, New Delhi	72.2%
B.Sc. Honor's (Chemistry)	2008	Jamia Millia Islamia, New Delhi	68.5%

Senior Secondary(10+2)	2005	CBSE(Lady Irwin Sr. Sec. School)	62%
Matriculation (10 th Standard)	2003	CBSE(Lady Irwin Sr. Sec. School)	79.9%

AWARDS:

1. Qualified **National Eligibility Test (NET)** conducted by Council for Scientific and Industrial Research (CSIR) in December 2010 with **All India Lectureship rank-74/0637**.
2. Qualified **Graduate Aptitude Test in Engineering (GATE 2011)** with score 412.
3. **Gold medalist** in M.Sc. Chemistry Batch 2009-2011, Department of Chemistry, Jamia Millia, Islamia.
4. Awarded a Basic sciences research meritorious **Junior Research Fellowship 2012 (JRF)** by University grants commission, New Delhi, India.
5. Awarded a Basic sciences research meritorious **Senior Research Fellowship 2014 (SRF)** by University grants commission, New Delhi, India.

SCHOLARSHIPS RECEIVED:

- B.Ed. Meritorious Scholarship, 2009 at Jamia Millia Islamia
- M.Sc. Meritorious Scholarship, 2010 at Jamia Millia Islamia
- M.Sc. Meritorious Scholarship, 2011 at Jamia Millia Islamia

PUBLICATIONS AND CONFERENCES:

1. A. Salahuddin, **Afreen Inam**, R.L. van Zyl, D.C. Heslop, C.T. Chen, F. Avecilla,, S.M. Agarwal, A. Azam; Synthesis, antiprotozoal activity, molecular docking and crystal structure of Chloroquinoline sulfonamide derivatives, *Bioorganic & Medicinal Chemistry* 21 (2013) 3080-3089.
2. **Afreen Inam**, S. M. Siddiqui , T. S. Macedo , D. R. M. Moreira , A. C. L. Leite , M. B. Soares, A. Azam; Design synthesis and biological evaluation of 3-[4-(7-chloroquinolin-4-yl)-piperazin-1-yl]-propionic acid hydrazones as antiprotozoal agents, *European Journal of Medicinal Chemistry*, 75 (2014) 67-76

3. **Afreen Inam**, R.L.Van Zyl, N.J. Van VAuren, C.T. Chen, F.Avecilla, S.M. Agarwal, A. Azam; Chloroquine-acetamide hybrids: A promising series of antiprotozoal agents; *RSC Advances*, 5 (2015) 48368-48381. **Impact Factor: 3.28**
4. **Afreen Inam**, K.Ahmad, S. Mittal, M.S. Rajala, F. Avecilla, A.Azam, Synthesis and biological evaluation of 4-(2-(dimethylamino)ethoxy)benzohydrazide derivatives as inhibitors of *Entamoeba histolytica*, *European Journal of Medicinal Chemistry*, 124, (2016) 445-455. **Impact Factor: 3.45**
5. M.F. Ansari, F. Hayat, **Afreen Inam**, K.Ahmad, R.L.Van Zyl, A.Azam, New antiprotozoal agents: Synthesis and biological evaluation of different 4-(7-chloroquinolin-4-yl) piperazin-1-yl)pyrrolidin-2-yl)methanone derivatives, *Bioorganic Medicinal Chemistry Letters*, 27 (2017) 460–465. Impact Factor: 2.78
6. Guru Prasad Sharma, Sumiran Gurung, **Afreen Inam**, Lokesh Nigam, Archana Bist, Debasish Mohapatra, Shantibhusan Senapati, Subbarao Naidu, Amir Azam, Neelima Mondal CID-6033590 inhibits p38MAPK pathway and induces S-phase cell cycle arrest and apoptosis in DU145 and PC-3 cells, *Toxicology in vitro*, 60, (2019) 420-436. Impact Factor: 2.90
7. SK Gautam, **Afreen Inam**, A Azam, N Mondal, Induction of G1 Phase Cell Cycle Arrest and Apoptosis in Breast Cancer MCF-7 Cells by Sulphonamide Derivative CID-6861424 *Research & Reviews: A Journal of Toxicology* 9 (2), 1-17, (2019)
8. M. F. Ansari, Afreen Inam, Fatima Shaehnaz, Subhash Agarwal, Kamal Ahmed, Amir Azam, Metronidazole-thiazolidinone conjugates: Design, synthesis, antiamoebic activity, molecular docking and QSAR studies, *Bioorganic Medicinal Chemistry Letters* 30, 23, (2020), 127549
9. N. S.Khan, P. K. Khan, Afreen Inam, K. Ahmad, M. Yousuf, M. Husain, A. Islam, Faizan Ahmad, Sher Ali, Amir Azam; Discovery of 4-(2-(dimethylamino)ethoxy)benzohydrazide derivatives as prospective inhibitors of microtubule affinity regulating kinase 4; *RSC Advances* (2020), 10, 20129-20137
10. J. Gupta, **Afreen Inam**, A.Azam, Strategic approach to the synthesis, characterization and biological evaluation of substituted piperazinyl-imidazole derivatives. *Rasayan Journal of Chemistry*, 13, 4, (2020.)
11. **Afreen Inam**, Amaduddin, A. Akhtar, M. Abid, A.Azam; Synthesis, Molecular docking and antiamoebic studies of Nitroimidazole-indole conjugates, *Annals of clinical cytology and pathology* 7, (1), 1141 (2021).

Conferences and seminars

- *Seminar (DST Sponsored) on “Recent advances in Chemistry 2015” at Department of Chemistry, Jamia Millia Islamia, New Delhi (Second Prize in Oral Presentation).*
- *International Conference on advances in chemistry (1st-2nd March 2013) at Aligarh Muslim University, Aligarh. (Presented a poster)*
- *International Conference on interface between chemistry and environment (13th -14th December 2012) at Ramjus College Delhi University. (Presented a poster)*
- *Experience of working effectively and productively in academic research team as an active member of National Service Scheme (NSS) during 2008-2009.*
- *Awarded as “The best organizer” of co-curricular activities by Institute of Advanced Studies in Education, Jamia Millia Islamia 2009*

PATENTS:

1. Amir Azam, **Afreen Inam**, Neelima Mondal, Guru P. Sharma; *N'-[(1E)-(2,5-dimethoxyphenyl)methylene]-4-methylbenzenesulfonohydrazide (SH-1): Potential anti-cancer molecule for prostate cancer, Indian Patent, Patent Number: 201911027758, 07/07/2019. Published on 15/01/2021.*
2. Amir Azam, **Afreen Inam**, Neelima Mondal, Guru P. Sharma; *(E)-N-(1-(3-chlorophenyl)propylidene)-4-methylbenzenesulfonohydrazide (SH-2): Potential molecule against prostate cancer, Indian Patent, Patent Number: 201611003778, 03/02/2016. Published on 04/08/2017, under examination)*
3. Amir Azam, **Afreen Inam**, Neelima Mondal, Kunwar Somesh Vikramdeo *(E)-N-(1-(4-isopropylbenzylidene)-4-methylbenzenesulfonohydrazide (SH-3): Potential molecule for Breast cancer, Indian Patent, Patent Number: 201611005460, 17/02/2016. Published on 18/08/2017, under examination)*