

Mubashir Maqbool

M.Sc (Zoology), B.Ed
CSIR-UGC NET (JRF); JKSET

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CURRENT POSITION:

- Assistant Professor
Department of Zoology;
SHMM GDC Anantnag

RESEARCH EXPERIENCE:

- Junior Research Fellow (JRF) at CSIR- Indian Institute of Integrative Medicine (IIIM) from 5th August 2011 to 4th August 2013.
- Senior Research Fellow (SRF) at CSIR- Indian Institute of Integrative Medicine (IIIM) from 5th August 2013 to 4th August 2016.

RESEARCH INTERESTS:

- Development of Nanotechnology Based Drug Delivery Systems Against Tuberculosis.
- Development of Novel Antimycobacterials against Drug susceptible and Drug resistant forms of Tuberculosis.

TEACHING EXPERIENCE:

- Assistant Professor, Department of Zoology, Govt. College for Women, M.A. Road, Srinagar (from 7th April 2017 – 6th October 2023).
- Assistant Professor, Department of Zoology, Shaheed Himayun Muzammil Memorial, Govt. Degree College, Anantnag. (from 6th October 2023 till date).

HONOURS AND AWARDS:

- Qualified CSIR-UGC Junior Research Fellowship (JRF) and National Eligibility Test (NET) examination held in December 2010.
- Qualified J&K State Level Eligibility Test (JK-SET) for Lectureship held in 2013.
- Topped M.Sc (Zoology) Entrance Examination (2006) held by University of Kashmir.
- 1st Position in the section of Parasitology (M.Sc Zoology 2006-2008).

- Best Presentation Award for the paper entitled “*In vitro* characterization of Albumin nanoparticles encapsulating antituberculosis drug Rifampin” presented at National Inter-Disciplinary Science Conference-2015 (NISCON 2015) held at Sri Pratap College Srinagar. August 18-19, 2015.

METRICS:

- Cumulative Impact Factor of Publications: **84.7**
- Citations: **370**
- H-index: **09**
- i10 index: **09**

PUBLICATIONS (Chronological):

1. Zahoor Ahmad, **Mubashir Maqbool** and Alsaba F. Raja (2011). Nanomedicine for tuberculosis: Insights from animal models. *International journal of Nanodimensions*; 2(1):67-84. **[Refereed; Print ISSN 2008-8868, Online ISSN: 2228-5059]**
2. Muzafar Ahmad Rather, Shajrul Amin, **Mubashir Maqbool**, Zubair Shanib Bhat, Prem Narayan Gupta and Zahoor Ahmad (2016). Preparation and *in vitro* characterization of Albumin Nanoparticles encapsulating an anti-tuberculosis drug- Levofloxacin. *Advanced science, Engineering and Medicine*; 8(11): 912-917. **[American Scientific Publishers; Refereed; Print ISSN 2164-6627, Online ISSN: 2164-6635]**
3. Zubair Shanib Bhat, Muzafar Ahmad Rather, **Mubashir Maqbool**, Hafiz UL Lah, Syed Khalid Yousuf and Zahoor Ahmad (2017). α -Pyrones: Small molecules with versatile structural diversity reflected in multiple pharmacological activities-An update. *Biomedicine & Pharmacotherapy*; 91: 265-277. **[Elsevier; Print ISSN 0753-3322]. IF = 7.5**
4. Zubair Shanib Bhat, Muzafar Ahmad Rather, **Mubashir Maqbool**, Hafiz UL Lah, Syed Khalid Yousuf and Zahoor Ahmad (2017). Cell Wall: A versatile fountain of drug targets in *Mycobacterium tuberculosis*. *Biomedicine & Pharmacotherapy*; 95: 1520-1534. **[Elsevier; Print ISSN 0753-3322]. IF = 7.5**
5. Muzafar Ahmad Rather, Faheem Rasool, Zubair Shanib Bhat, Hafiz-Ullah Dar, **Mubashir Maqbool**, Shajrul Amin, Syed Khalid Yousuf and Zahoor Ahmad (2017). Design and Synthesis of Indolopyridone hybrids as new antituberculosis agents. *Microbial Pathogenesis*; 113: 330-334. **[Elsevier; Print ISSN 0882-4010]. IF = 3.5**
6. Muzafar Ahmad Rather, Ali Mohd Lone, Bisma Teli, Zubair Shanib Bhat, Paramjeet Singh, **Mubashir Maqbool**, Bashir Ahmad Shairgojray, MohdJamal Dar, Shajrul Amin, Syed Khalid Yousuf, Bilal A. Bhat and

- Zahoor Ahmad (2017). The Synthesis, Biological Evaluation and structure activity relationship of 2-Phenylaminomethylene-cyclohexane-1,3-diones as specific antituberculosis agents. *Med. Chem. Commun.*; 8: 2133-2141. **[Royal Society of Chemistry; Online ISSN 2040-2511]. IF =5.121**
7. Zubair Shanib Bhat, Hafiz UL Lah, Muzafar Ahmad Rather, **Mubashir Maqbool**, TabassumAra, Zahoor Ahmad and Syed Khalid Yousuf (2018). Synthesis and *in vitro* Evaluation of 3-Cinnamoyl-4-hydroxy-pyran-2-one (CHP) in pursuit of new potential antituberculosis agents. *Med. Chem. Commun.*;9(1): 165-172. **[Royal Society of Chemistry; Online ISSN 2040-2511]. IF = 5.121**
 8. Zubair Shanib Bhat, Muzafar Ahmad Rather, **Mubashir Maqbool** and Zahoor Ahmad (2018). Drug targets exploited in *Mycobacterium tuberculosis*: Pitfalls and Promises on the horizon. *Biomedicine & Pharmacotherapy*; 103: 1733-1747. **[Elsevier; Print ISSN 0753-3322]. IF = 7.5**
 9. Muzafar Ahmad Rather, Zubair Shanib Bhat, Ali Mohd Lone, **Mubashir Maqbool**, Shajrul Amin, Bilal A. Bhat and Zahoor Ahmad (2018). *In Vitro* Antimycobacterial Activity of 2- (((2-hydroxyphenyl) amino) methylene)-5,5-dimethylcyclohexane-1,3-dione: A New Chemical Entity against *Mycobacterium tuberculosis*. *International journal of antimicrobial agents.*;52(2): 265-268. **[Elsevier; ISSN 0924-8579]. IF = 4.6**
 10. Aehtesham Hussain, Muzafar Ahmad Rather, Zubair Shanib Bhat, AasifMajeed, **Mubashir Maqbool**, AabidManzoor Shah, Mushtaq A. Aga, Aiyatullah Shah, SaleemMushtaq, Payare L. Sangwan, QaziParvaiz Hassan and Zahoor Ahmad (2019). In vitro evaluation of dinactin, a potent microbial metabolite against *Mycobacterium tuberculosis*.*International journal of antimicrobial agents.*;53(1): 49-53. **[Elsevier; ISSN 0924-8579]. IF = 4.6**
 11. Zubair Shanib Bhat, Muzafar Ahmad Rather, **Mubashir Maqbool**, Hafiz UL Lah, Syed Khalid Yousufand Zahoor Ahmad (2018). *In vitro* bactericidal activity of 3-Cinnamoyl-4-hydroxy-6-methyl-2H-pyran-2-ones (CHPs) against drug susceptible and multidrug resistant strains of *Mycobacterium tuberculosis*. *International journal of infectious diseases.*;73(supplement): 350. **[Elsevier; ISSN 1201-9712]. IF = 4.3**
 12. Zubair Shanib Bhat, Muzafar Ahmad Rather, Hafiz UL Lah, Aehtesham Hussain, **Mubashir Maqbool**, Syed Khalid Yousuf, Zuhra Jabeen, Mushtaq Ahmad Wani and Zahoor Ahmad (2020). *In vitro* bactericidal activity of 3-Cinnamoyl-4-hydroxy-6-methyl-2-pyrone (CHP) against drug-susceptible, drug-resistant and drug-tolerant isolates of *Mycobacterium tuberculosis*. *Journal of Global Antimicrobial Resistance.*; 22: 57-62. **[Elsevier; ISSN 2213-7173]. IF = 3.2**

13. Muzafar Ahmad Rather, Zubair Shanib Bhat, Ali Mohd Lone, **Mubashir Maqbool**, Bilal Ahmad Bhat and Zahoor Ahmad (2021). *In vitro* potency of 2-(((2-hydroxyphenyl)amino)methylene)-5,5-dimethylcyclohexane-1,3-dione against drug-resistant and non-replicating persisters of *Mycobacterium tuberculosis*. *Journal of Global Antimicrobial Resistance*; 25: 202-208. [Elsevier; ISSN 2213-7173]. IF = 3.2

ABSTRACTS (in Conferences)

1. **Mubashir Maqbool**, Muzafar Ahmad and Zahoor Ahmad. "Combating tuberculosis by application of Nanotechnology based drug delivery systems". Poster presentation at 8th JK Science congress held at University of Kashmir. September 17-19, 2012.
2. Muzafar Ahmad Rather, **Mubashir Maqbool** and Zahoor Ahmad. "Search for Potential Antibiotics with Novel Targets for Drug Resistant Tuberculosis". Poster presentation at 8th JK Science congress held at University of Kashmir. September 17-19, 2012.
3. **Mubashir Maqbool**, Muzafar Ahmad Rather, Zubair Shanib Bhat, Fayaz Ahmad and Zahoor Ahmad. "In vitro characterization of Albumin nanoparticles encapsulating antituberculosis drug Rifampin". Oral presentation at National Inter-disciplinary Science Conference-2015 (NISCON 2015) held at Sri Pratap College Srinagar. August 18-19, 2015. **(Best presentation Award)**
4. Muzafar Ahmad Rather, **Mubashir Maqbool**, Prem Narayan Gupta, Shajrul Amin, and Zahoor Ahmad. "Levofloxacin loaded Albumin nanoparticles for Multidrug Resistant Tuberculosis: *in vitro* characterization". Oral presentation at National Inter-disciplinary Science Conference-2015 (NISCON 2015) held at Sri Pratap College Srinagar. August 18-19, 2015.
5. Muzafar Ahmad Rather, Ali Mohd Lone, Bashir Ahmad Shairgojrey, Zubair Shanib Bhat, **Mubashir Maqbool**, Shajrul Amin, Syed Khalid Yusuf, Bilal Ahmad Bhat and Zahoor Ahmad. "Exploring Phenylimino-methyl-cyclohexadiones as new generation antituberculosis drugs by evaluating them against experimental tuberculosis with special reference to MDR/XDR-TB". Clinical Chemistry Update-2015.
6. **Mubashir Maqbool**, Muzafar Ahmad Rather, Zubair Shanib Bhat, Fayaz Ahmad and Zahoor Ahmad. "Optimisation of the preparation process for Albumin Nanoparticles encapsulating Rifampin". Oral presentation at 11th JK Science congress held at University of Kashmir. October 12-14, 2015.
7. Muzafar Ahmad Rather, **Mubashir Maqbool**, Shajrul Amin, Prem Narayan Gupta, and Zahoor Ahmad. "Preparation and *in vitro* characterization of levofloxacin loaded albumin nanoparticles for Multidrug resistant tuberculosis". Oral presentation at 11th JK Science congress held at University of Kashmir. October 12-14, 2015.

8. Muzafar Ahmad Rather, Ali Mohd Lone, Bashir Ahmad Shairgojrey, Zubair Shanib Bhat, **Mubashir Maqbool**, Shajrul Amin, Syed Khalid Yusuf, Bilal Ahmad Bhat and Zahoor Ahmad. "Phenylimino-methyl-cyclohexadiones as Novel Anti-tuberculosis agent with Special Reference to MDR/XDR-TB". Oral presentation at 11th JK Science congress held at University of Kashmir. October 12-14, 2015.
9. Zubair Shanib Bhat, Muzafar Ahmad Rather, Hafiz ul Lah Dar, Faheem Rasool, **Mubashir Maqbool**, Syed Khalid Yusuf, Zahoor Ahmad. "Pyran-2-one based scaffolds as new generation anti-TB Drugs for possible use in HIV-TB co-therapeutics". Oral presentation at 11th JK Science congress held at University of Kashmir. October 12-14, 2015.

CONFERENCES AND WORKSHOPS ATTENDED (Chronological):

1. Participated in the 2nd International Conference on "**Open Source for Computer Aided Translational medicine (OSCAT)**", organized by **Open Source Drug Discovery (OSDD)** at CSIR- Institute of Microbial Technology (IMTECH), Chandigarh, India from 22nd - 25th Feb. 2012.
2. Participated in the 1st "**National Symposium cum Workshop on Experimental Research and Alternatives (NSWERA)**" held at PGIMER, Chandigarh, India on 3rd March 2012.
3. Received two months training on HPLC & HPLC-MS at Indian Institute of Integrative Medicine (IIIM), Jammu.
4. Participated and presented papers in the 8th **JK Science Congress** held at University of Kashmir; September 17-19, 2012.
5. Participated in the "**Science Communication Workshop**" organized by **The Wellcome Trust/DBT India Alliance** at University of Kashmir, Srinagar; 11-12 May 2015.
6. Participated and presented papers in National Inter-disciplinary Science Conference-2015 (**NISCON 2015**) held at Sri Pratap College Srinagar. August 18-19, 2015.
7. Participated and presented papers in the 11th **JK Science Congress** held at University of Kashmir; October 12-14, 2015.
8. Participated in "**Three week Orientation Programme for newly recruited Assistant Professors in Higher Education**" organized by **Institute of Advanced Studies in Education, M.A. Road Srinagar (Cluster University Srinagar)**; 26 April – 20 May 2017.
9. Participated in 2-day workshop on "**Advances in Cell and Molecular Biology**" organized by **Govt. College for Women M.A. Road Srinagar (Cluster University Srinagar)**; 27-28 September 2017.

10. Participated in one day seminar on **“Learning Outcomes-based Curriculum Framework (LOCF) for undergraduate education in Food Science and Technology”** organized by **Govt. College for Women M.A. Road Srinagar (Cluster University Srinagar)**; 3rd March 2020.
11. Participated in One week online Faculty Development Programme (FDP) on **“ICT Enhanced Teaching Learning and Creating MOOCs”** organized by **Teaching Learning Centre, Ramanujan College, University of Delhi**; 18 August – 25 August 2020.
12. Participated in One week online Faculty Development Programme (FDP) on **“E-learning and Governance”** organized by **Teaching Learning Centre, Ramanujan College, University of Delhi**; 21 February – 27 February 2022.
13. Completed the **“Two week Refresher Course in Artificial Intelligence and Machine Learning (Interdisciplinary)”** organized by UGC-MMTTC, University of Kashmir, Srinagar from 16th to 30th September 2025.