

# Dr. Manash C. Das

## Contact Information

Lecturer (Senior Scale)

Department of Medical Laboratory Technology

Women's Polytechnic, Agartala, Tripura, India.

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## Research Interest

- Microbial structural biophysics.
- Nano-biotechnology.
- Immunology of host-pathogen interaction.

## Education

Qualification	University
Ph. D (Molecular Biology & Bioinformatics)	Tripura University, India
Master of Technology (Medical Biotechnology)	University of Hyderabad, India
Bachelor of Pharmacy	Tripura University, India

## Research Publications

1. **Das MC**, Sandhu P, Gupta P, Rudrapaul P, De UC, Tribedi P, Akhter Y, Bhattacharjee S; Attenuation of *Pseudomonas aeruginosa* biofilm formation by Vitexin: A combinatorial study with azithromycin and gentamicin. *Sci Rep* 2016; **6**: 23347. **IF: 3.998**
2. **Das MC**, Paul S, Gupta P, Tribedi P, Sarkar S, Manna D, Bhattacharjee S.; 3-Amino-4-aminoximidofurazan derivatives: small molecules possessing antimicrobial and antibiofilm activity against *Staphylococcus aureus* and *Pseudomonas aeruginosa*. *J Appl Microbiol* 2016; **120**: 842-859. **IF: 3.066**
3. Antu Das\*, **Manash C. Das\***, Padmani Sandhu, Niranjan Das, Prosun Tribedi, Utpal C. De, Yusuf Akhter and Surajit Bhattacharjee; Antibiofilm activity of *Parkia javanica* against *Pseudomonas aeruginosa*: a study with fruit extract; *RSC Adv.*, 2017,7, 5497-5513 (\*equal first author). **IF: 3.070**
4. Ghosh C, Bhowmik J, Ghosh R, **Das MC**, Sandhu P, Kumari M, Acharjee S, Daware AV, Akhter Y, Banerjee B, De UC, Bhattacharjee S. The anti-biofilm potential of triterpenoids isolated from *Sarcochlamys pulcherrima* (Roxb.) Gaud. *Microb Pathog.* 2020 Feb;139:103901. doi: 10.1016/j.micpath.2019.103901. **IF: 2.914**
5. Chinmoy Ghosh, Avik Sarkar, Kumari Anuja, **Manash C. Das**, Abhik Chakraborty, Junaid Jibran Jawed, Priya Gupta, Subrata Majumdar, Birendranath Banerjee, Surajit Bhattacharjee; Free radical stress induces DNA damage response in RAW264.7 macrophages during *Mycobacterium smegmatis* infection; *Arch. Microbiol.*, 2018 Nov 1, doi: 10.1007/s00203-018-1587-y. **IF: 1.607**
6. Tapas Das, **Manash C. Das**, Antu Das, Sukhen Bhowmik, Padmani Sandhu, Yusuf Akhter, Surajit Bhattacharjee, Utpal C. De; Modulation of *S. aureus* and *P. aeruginosa* biofilm: an *in vitro* study with new coumarin derivatives; *World J. Microbiol. Biotechnol.*, 2018, 8, 34(11), 170. **IF: 2.800**
7. Antu Das, Junaid Jibran Jawed, **Manash C. Das**, Padmani Sandhu, Utpal C. De, Biswanath Dinda, Yusuf Akhter, Surajit Bhattacharjee; Antileishmanial and immunomodulatory activity of

- lupeol a triterpene compound isolated from *Sterculia villosa*; **Int. J. of Antimicrob Agents**, 2017, 50, 512-522. **IF: 4.621**
8. Priya Gupta, Arpita Sarkar, Padmani Sandhu, Akshay Daware, **Manash C. Das**, Yusuf Akhter and Surajit Bhattacharjee; Potentiation of Antibiotic against *Pseudomonas aeruginosa* biofilm: A study with Plumbagin and Gentamicin; **J Appl Microbiol** 2017; **123**: 246-261. **IF: 3.066**
  9. Ghosh R\*, **Das MC\***, Sarkar A, Das A, Sandhu P, Dinda B, Akhter Y, Bhattacharjee S, De UC. Exploration of phytoconstituents from *Mussaenda roxburghii* and studies of their antibiofilm effect. **Chem Biodivers**. 2017 Jul 7. doi:10.1002/cbdv.201700165 (\*equal first author). **IF: 1.560**
  10. Das A, **Das MC**, Das N, Bhattacharjee S. Evaluation of the antileishmanial potency, toxicity and phytochemical constituents of methanol bark extract of *Sterculia villosa*. **Pharm Biol**. 2017; 55(1):998-1009. **IF: 1.241**
  11. Niranjana Das, Partha Sarathi Ghosh, **Manash Chandra Das**, Biswanath Dinda; A new biologically active triterpenoid saponin from the aerial parts of *Neanotis wightiana*; **Phytochem Letters**;2013, 6(2), 270–273. **IF: 1.459**
  12. Abhijit Bhattacharjee, Anamika Das, **Manash C. Das**, Antu Das and Surajit Bhattacharjee; Anti-biofilm potentiality of *alternanthera philoxeroides*: a study with methanolic plant extract; **Eur J Pharm Med Res**, 2016,3(12), 247-253. **IF: 6.222**
  13. Antu Das, Junaid Jibrán Jawed, **Manash C Das**, Akshay Daware, Chinmoy Ghosh, Shukdeb Acharjee, Surajit Bhattacharjee; Methanolic bark extract of *sterculia villosa* attenuate the intracellular leishmanial load through nitric oxide generation and immunomodulation; **Eur J Pharm Med Res**, 2016,3(12), 347-351. **IF: 6.222**
  14. **Manash C Das**, Aditi Biswas, Monalisa Chowdhury, Jaharlal Saha; Screening Antimicrobial Susceptibility of Gentamicin, Vancomycin, Azithromycin, Chloramphenicol and Cefotaxime Against Selected Gram Positive and Gram Negative Bacteria ; **Int. J. Pharma Res. and Health Sci.**, 2 (4), 2014, 324-331. **IF:**
  15. Niranjana Das, **Manash Chandra Das**, Biswanath Dinda; Enzyme Inhibitor & Antimicrobial Phytochemicals from Aerial Parts of *Sida glutinosa*; **Int. J. Pharmacog. and Phytochem. Res**. 2014; 6(1); 91-96. **IF: 1.18**
  16. **M. C. Das**, B. De, J. K. Gupta et. al ; Antimicrobial activities of Schiff's bases of 1-aminoethyl- 2,4- substituted imidazolin – 5 (4H) ones; **J. Inst. of Chemists (India)**, 77(1), 2005, 20-22. **IF:**
  17. B. De, **M. Das**, B. B. Goswami et. al.; Studies on some synthesized amino-pyrazolo carboxaldehydes; **J. Inst. of Chemists (India)**; 79 (2), 2007, 54-57. **IF:**
  18. **M. C. Das**, B. De, P. R. Bhattacharjee, S. Pal (Datta) et. al. ; In- vitro study of effect of normal saline, aspirin, atenolol and doxycycline on insulin; **J. Inst. of Chemists (India)**, 81(5), 2009, 141-149. **IF:**

### **Conference/Seminar/Workshop**

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Attended several international and national conference/seminar/symposia/workshops and presented research works.

### **Patent Filed**

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1. Patent (India) Application

Title: Non-Invasive Diagnostic Kit for Detection of Urinary Tract Infection (UTI).

Author: Surajit Bhattacharjee, **Manash Chandra Das**, Chinmoy Ghosh

## Popular Article

1. **Manash C. Das**, Biplab De, Manabendra Debnath; Stem cell therapy; **Pharma Times**; Vol: 38; No-9; Sept. 2006; p: 24-26.

## Teaching Experience

Position	Institute	Duration
Lecturer (Senior Scale)	Dept. of Medical Laboratory Technology, Women's Polytechnic, Agartala, Tripura, India.	21 <sup>st</sup> May 2016 to till date.
Lecturer	Dept. of Medical Laboratory Technology, Women's Polytechnic, Agartala, Tripura, India.	21 <sup>st</sup> May 2010 to 20 <sup>th</sup> May 2016.
Lecturer (Biochemistry)	Tripura Institute of Paramedical Sciences, Tripura, India.	September 2009 to 20 <sup>th</sup> May 2010.
Lecturer (contract)	Dept. of Medical Laboratory Technology, Women's Polytechnic, Agartala, Tripura, India.	June 2007 to August 2009.

## Industrial Experience

Position	Institute	Duration
Research Scientist (R&D)	Natco Pharma Limited Natco House, Road No-2, Banjara Hills, Hyderabad.	July 2006 – December 2006
Trainee Analytical Chemist	Pharma Dig-Medi Chemico (India) Malaynagar, Agartala, Tripura.	July 2003 – August 2004

## Honors and Awards

- Awarded gold medal by Tripura University for securing first class first position in Bachelor of Pharmacy.
- Awarded North-Eastern Council Scholarship (India) for pursuing M. Tech (Medical Biotechnology) degree.
- Awarded Indo-US Earn While Learn fellowship during M. Tech course in University of Hyderabad.

## Membership of professional bodies

- Life member, Society of Biological Chemist (India).
- Life member, Asian Federation of Biotechnology.
- Life member, Tripura Chemical Society, Tripura, India.

Agartala, Tripura, India

**Manash Chandra Das, Ph. D**