



Dr. Subhasis Banerjee, M. Pharm, PhD, FIC
Associate Professor

Dr. Banerjee is an M. Pharm (Pharmaceutical Chemistry) from BIT, Mesra and has been awarded PhD from BIT, Mesra. He received National Young Scientist award in the year 2006 from Indian Council of Chemist. He is having 12 years of teaching and research experience. He qualified GATE in the year 2005. He is a member of Indian Pharmaceutical Association. He has successfully guided several post graduate students.

Area of Research: Insilico drug design and synthesis of organic biomolecules.

Publication Details:

1. Swastika Ganguly, **Subhasis Banerjee**. Synthesis, antifungal activity and molecular modeling studies of some novel 1-substituted 2-methylimidazole analogs. *Journal of Indian Council of Chemists*. **2007**; 24(1):178-81.
2. Swastika Ganguly, **Subhasis Banerjee**. 3D-QSAR studies of imidazole derivatives as *Candida albicans* P-450-demethylase inhibitors. *Asian Journal of Chemistry*. **2008**; 20(6): 4595-4608.
3. Supriyo Saha, **Subhasis Banerjee**, Swastika Ganguly. Molecular docking studies of some novel hydroxamic acid derivatives. *International Journal of Chem Tech Research*. **2010**; 2(2):932-36.
4. SM Firdous, S Banerjee, R Koneri. Antihyperlipidemic activity of *Momordica dioica* Roxb. *International Journal of Drug Development & Research*. **2010**; 2(1):108-112.
5. **Subhasis Banerjee**, Supriyo Saha, Sujoy Dawn. Design strategy of some novel tetrahydroquinoline analogs as potential non-nucleoside reverse transcriptase inhibitors. *Der Pharmacia Lettre*. **2010**; 2(3):154-62.
6. Bibek Pati, **Subhasis Banerjee**. Molecular docking based virtual design of polysubstituted triazoles as cytochrome P-450 -14-alpha-sterol demethylase (Cyp 51) inhibitor. *Journal of PharmaSciTech*. **2011**; 1(2): 46-51.
7. Sourav De, **Subhasis Banerjee**. Structure based design of few substituted piperidones as dipeptidyl peptidase inhibitors. *International Journal of Pharmacy and Pharmaceutical Sciences*. **2012**; 4(5):163-70.
8. Bibek Pati, **Subhasis Banerjee**. Importance of piperidine moiety in medicinal chemistry research: A review. *Journal of Pharmacy Research*. **2012**; 5(12):5493-5509.

9. **Subhasis Banerjee**, Swastika Ganguly, Kalyan Kumar Sen. Denovo *insilico* design of triazole analogs as reverse transcriptase inhibitors. *Der Pharmacia Lettre*. **2012**; 4(6):1888-1900.10.
10. Subhasis Banerjee, Swastika Ganguly, Kalyan Kumar Sen. Synthesis and biological evaluation of some novel triazole derivatives. *Int J Pharm Appl*. 2013; 4(2):49-62.
11. **Subhasis Banerjee**, Swastika Ganguly, Kalyan Kumar Sen. A Review on 1,2,4-Triazoles. *J Adv Pharm Edu Res*. **2013**; 3(3):102-115.
12. **Subhasis Banerjee**, Swastika Ganguly, Kalyan Kumar Sen, Choowongkamon. K, Seetaha S. Synthesis, evaluation and binding mode analysis of some novel triazole derivatives as antimicrobials. *J Adv Pharm Edu Res*. **2013**; 3(4):494-511.
13. Bibek Pati, **Subhasis Banerjee**. Quinazolines: An Illustrated Review. *Journal of Advanced Pharmacy Education & Research*. **2013**; 3(3):136-51.
14. Sankhadip Bose, Bibek Laha, **Subhasis Banerjee**. Anti-inflammatory activity of isolated allicin from garlic with post-acoustic waves and microwave radiation. *J Adv Pharm Edu & Res*. **2013**; 3(4):512-15.
15. Sankhadip Bose, Bibek Laha, **Subhasis Banerjee**. Quantification of allicin by high performance liquid chromatography-ultraviolet analysis with effect of post-ultrasonic sound and microwave radiation on fresh garlic cloves. *Pharmacognosy Magazine*. **2014**; 10(38):288-93.
16. Bibek Pati, **Subhasis Banerjee**. Indispensability of quinoline moiety in the field of medicinal chemistry research-A review. *Journal of Pharma SciTech*. **2014**; 3(2):59-67.
17. Subhadip Ball, Subhasis Banerjee, Amrita Choudhury. Docking Based De novo Design of Few Tolcapone Derivatives as Catechol-oMethyl Transferase (Comt) Inhibitors. *Der Pharmacia Lettre*. **2016**; 8 (15):46-56.
18. Sourav De, **S. Banerjee**, M. Niranjana Babu, B. Mohana Lakshmi, T. M. Suneel Babu. Review on Cardiac Glycosides in Cancer Research and Cancer Therapy, *Indo American Journal of Pharmaceutical Research*, **2016**; 6:5391-5400.
19. **Subhasis Banerjee**, Subhadeep Ball S, Sankhadip Bose. *Insilico Design of Few Allicin Derivatives*, *Journal of PharmaSciTech*. **2016**; 5(2):71-77.
20. Chiranjit Jana, **Subhasis Banerjee**. A brief insight into isoxazole analogues. *Der Pharmacia Lettre*. **2016**; 8(7):209-24.
21. Priyanka Banerjee, **Subhasis Banerjee**. In silico Design of some novel perfusion RSV F glycoprotein inhibitors. *Journal of Innovation in Pharmaceutical Sciences*. **2017**; 1(2):49-54.
22. Sourav De, Sunisha Kottukulam Subran, Selva kumar Ramasamy, **Subhasis Banerjee**, Priyanka Paira, Ashok Kumar Somanahalli Kalleshappa. Luminescent Anticancer Acenaphtho[1,2-b]quinoxaline: Green Synthesis, DFT and Molecular Docking Studies, Live-Cell Imaging and Reactivity towards Nucleic Acid and Protein BSA. *Chemistry Select*, Wiley Online Library. **2018**; 3(19):5421-30.
23. Sourav De, **Subhasis Banerjee**, Priyanka Paira, S K Ashok Kumar. Critical role of Dipeptidyl Peptidase IV: A therapeutic target for cancer & diabetes. *Mini-Rev Med Chem*. **2018**; 19(2):88-97.

24. **Subhasis Banerjee**, Shalini Das. Target based design of few tau protein inhibitors as antialzheimers. Journal of Innovation in Pharmaceutical Sciences. **2018**; 2(1):1-7.
25. Priyobrata Nath, Sougata Mukherjee, Agnish Mukherjee, **Subhasis Banerjee**. Virtual screening of tricyclic compounds as DNA intercalators. Der Pharmacia Lettre. **2018**; 10 (9):32-46.
26. Sourav De, B. Sarkar, G. R. Jadhav, R. Selvakumar, **S. Banerjee**, M. Anbalagan, P. Paira and S K Ashok Kumar, Experimental and Theoretical Study on the Biomolecular Interaction of Novel Acenaphtho quinoxaline and Dipyridophenazine analogues, Chemistry Select, **2018**; 3:10593-10602.
27. Sourav De, S. R. Chaudhuri, A. Panda, G. R. Jadhav, R. Selva Kumar, M. Prasanth, N. Ramesh, A. Mondal, M. Anbalagan, **S. Banerjee**, P. Paira, S. K. Ashok Kumar, Synthesis, characterisation, molecular docking, biomolecular interaction and cytotoxicity studies of novel Ruthenium(II)-arene-2heteroarylbenzoxazole complexes, New J. Chem, **2019**, DOI- [10.1039/C8NJ04999H](https://doi.org/10.1039/C8NJ04999H)
28. M Das, B Das, A De, **S Banerjee**, A Samanta, Antimicrobial investigation and binding mode analysis of some newly synthesized 4-amino-5-((aryl substituted)-4H-1, 2, 4-triazole-3-yl)-thio linked hydroxamic acid derivatives. Asian Journal of Pharmaceutical and Clinical Research, **2019**; 12(3):469-7.
29. Ali, SA., Nayak, AK., **Banerjee, S.**, Sen, KK., Prabhakar, T. In silico molecular docking of vetiver oil and formulation of vetiver oil-encapsulated gellan gum-based microcapsules for antidepressant activity. Research Journal of Pharmacy and Technology, **2020**; 13(7):3135-3142.
30. Banerjee, S., **Banerjee, S.**, Jha, G., Bose, S. Conspectus of phytoconstituents and pharmacological activities of *Barleria lupulina* Lindl.: A Review. Current Traditional Medicine. **2020**; 06. 10.2174/2215083806666200312150825.
31. Banerjee, S., **Banerjee, S.**, Jha, G., Bose, S. *Barleria Prionitis* L.: An illustrative traditional, phytochemical & pharmacological review. The Natural Products Journal. **2020**; 10.10.2174/2210315510666200131114525.
32. Das, A., Nandi, S., Das, K., **Banerjee, S.** Virtual screening of few novel sulindac derivatives as multi-targeted agents. Drug Discovery. **2020**; 14(33):33-43.
33. Nath, P., Mukherjee, A., Mukherjee, S., Banerjee, S., Das, S., **Banerjee, S.** Isatin: A scaffold with innumerable biodiversity. Mini Review in Medicinal Chemistry. **2020**; 10.2174/2211536609666201125115559.
34. Sourav De, S K Ashok Kumar, P. Paira, G. Ashna, A. Moorthy, **S. Banerjee**, Luminescent ruthenium(II)-para-cymene complexes of aryl substituted imidazo-1,10-phenanthroline as anticancer agents and the effect of remote substituents on cytotoxic activities, Inorganica Chimica Acta. **2021**; 515 120066.35.
35. Sabyasachi Banerjee, **Subhasis Banerjee**, Metal-based Complexes as Potential Anti-cancer Agents, Anti-Cancer Agents in Medicinal Chemistry. **2022**; 22(15):2684-2707. 10.2174/1871520622666220331085144
36. Anbalagan Moorthy, Arjita Ghosh, Pravinkumar Selvam, Priyanka Paira, S. K. Ashok Kumar, Selva Kumar R, Shantha Kumar Jenifer, Sourav De, **Subhasis Banerjee**, Yung-Chih Kuo, In vitro studies on the selective cytotoxic effect of luminescent Ru(ii)-p-cymene complexes of imidazo-pyridine and imidazo quinoline ligands, Dalton Trans. **2022**; 51:17263-17276. <https://doi.org/10.1039/D2DT02237K>

37. De Sourav, K Ashok, Shah Suraj, Kazi Sabnaz, Sarkar Nandan, **Banerjee Subhasis**, Dey Sanjay. (2022).

Pyridine: The scaffolds with significant clinical diversity. RSC Advances. 12. 15385-15406.

10.1039/D2RA01571D.

Book Published

1. Study of few polysubstituted piperidone analogs. Sourav De, Subhasis Banerjee. Publisher: LAP Lambert Academic Publishing AG & Co KG. ISBN-978-3-848-40497-1 Published 27/12/2012

2. A Scientific insight into Pyrazole Discovery. Mousumi Shyam, Subhasis Banerjee. Publisher: LAP Lambert Academic Publishing AG & Co KG. ISBN-978-3-659-92036-3. Published 22/07/2016

3. Bipul Ranjan Mishra, Subhasis Banerjee. A Scientific Illustration on Schiff Bases LAP LAMBERT Academic Publishing (2017-09-14). ISBN-13: 978-620-2-01681-0

Book Chapter Published

1. Souvik Mukherjee, Gaurav Kaithwas, Manjari Singh and **Subhasis Banerjee** Therapeutic Platform of Bioactive Lipids Focus on Cancer. Chapter 13. Role of Omega-3 Polyunsaturated Fatty Acids-Derived Lipid Metabolites on Cancer Hacks. 2022. CRC Press: Taylor and Francis Group. ISBN: 9781774910849

2. Sabyasachi Banerjee, Utsab Chakraborty, **Subhasis Banerjee**, Sankhadip Bose, Arijit Mondal, Anupam Bishayee, Chapter 16 - Regulatory aspects: Toxicity and safety, Advances in Nanotechnology-Based Drug Delivery Systems, Elsevier, 2022, Pages 423-448, ISBN 9780323884501, <https://doi.org/10.1016/B978-0-323-88450-1.00015-6>.

Number of Students Guided in Post Graduation & Doctoral Programme

Sixteen (16) completed till 2022 and **Two (02)** currently in progress

Seminars/Workshops Attended (Participant/Speaker)

1. "ICC Silver Jubilee Conference" 27th -29th Dec 2006 at Nanotechnology Research Centre, Kalyan , Mumbai.
2. One Day Seminar-cum-Workshop on "Quality Assurance and GMP in Pharmaceuticals" held on 2nd December, 2010 at Gupta college of Technological Sciences, Ashram More, G.T. Road, Asansol713301, West Bengal.
3. National seminar on Recent Trends in drug Discovery and Drug Development, Dated Sept 24th, 2011 at Gupta College of Technological sciences, W.B.
4. AICTE sponsored "National Conference on Biopolymers, Bioactive agents & Delivery strategies", April 7th-8th 2012" organized by-Trinity trust, Gupta College of technological sciences, Asansol.

5. Seminar and Workshop on “Industry-Entrepreneurship Development Programme, 8th – 10th September, 2012” organized by-Trinity trust, Gupta College of Technological sciences, Asansol.
6. Trinity Trust, Gupta College of Technological Sciences, Asansol in collaboration with APTI organized “National Seminar on Strategies to Combat Diseases Threatening the Nation’s Health”, September 5th 2013.
7. A Seminar on “High Throughput & Molecular Targeted Screening in Anticancer drug Discovery” held on 11th November, 2013 at AJC BOSE HALL, Gupta college of Technological Sciences, Ashram More, G.T. Road, Asansol-713301, West Bengal.
8. AICTE sponsored “National Conference on Complex Diseases, Novel Therapeutics & Delivery Challenges, 23rd-24th January, 2014” organized by-Trinity trust, Gupta College of Technological sciences, Asansol.
9. National Conference on “Pharma Innovations & Regulatory Considerations, 4th September, 2016” organized by Trinity trust, Gupta College of Technological sciences, Asansol in collaboration with Society of Pharmaceutical Education & Technology (SPET).
10. National Conference on "Advances in Pharmaceutical Technology & Regulatory Affairs" (APTRI2017) on 21st May, 2017.
11. National Conference on “Recent Trends in Drug Discovery and Development” (RTD3-2017) on November 4th, 2017.
12. National Conference on “Present Scenario, Challenges and Future Perspective of Drug Discovery and Smart Delivery System Development” on 6th April 2019.
13. 2 days Workshop on “Insilico Drug Design” organized by CIPT, Uluberia on 3rd and 4th May, 2019.