



Faculty name: **Dr. Ravi Kumar Rajan**

No. of publication: 9

**List of publication**

Research/Review/Conference/Book Chapters

1. **Rajan, R.K.,**Ramanathan, M. Identification and neuroprotective evaluation of a potential c-Jun N-terminal kinase 3 inhibitor through structure-based virtual screening and in-vitro assay. *J Comput Aided Mol Des* (2020). DOI: [10.1007/s10822-020-00297-y](https://doi.org/10.1007/s10822-020-00297-y).
2. **Rajan RK,** M SS, Balaji B. Soy isoflavones exert beneficial effects on letrozole-induced rat polycystic ovary syndrome (PCOS) model through anti-androgenic mechanism. *Pharmaceutical Biology*. 2016 Dec; 55(1):242-251. DOI: [10.1080/13880209.2016.1258425](https://doi.org/10.1080/13880209.2016.1258425).
3. UmaaKuppuswamy, **Ravi Kumar Rajan,** Arvinth Kumar, and MuthiahRamanathan. In-silico and in-vitro analysis of novel substituted benzimidazolyl derivatives for antimycobacterial potentials targeting enoyl acyl carrier protein reductase (InhA). *Futur J Pharm Sci* 8, 61 (2022). <https://doi.org/10.1186/s43094-022-00449-x>
4. Arjun H.A, **Ravi Kumar Rajan,** RamakrishnanElancheran, MuthiahRamanathan, AtanuBhattacharjee, SenthamaraiKannanKabilan. Crystal structure, Hirshfeld surface analysis, DFT and molecular docking studies on benzohydrazide derivatives as potential inhibitors of prostate cancer. *Chemical Data Collection*. Feb 2019. DOI: [10.1016/j.cdc.2020.100350](https://doi.org/10.1016/j.cdc.2020.100350).
5. ArjunanKarupppiah, **RavikumarRajan,** MuthiahRamanathan, ArumugamNagarajan. Cytotoxicity and Synergistic Effect of Biogenically Synthesized Ternary Therapeutic Nano Conjugates Comprising Plant Active Principle, Silver and Anticancer Drug on MDA-MB-453 Breast Cancer Cell Line. *Asian Pacific journal of cancer prevention*. 2020 Jan; 21(1): 195-204. DOI: [10.31557/APJCP.2020.21.1.195](https://doi.org/10.31557/APJCP.2020.21.1.195).
6. ArjunanKarupppaiah, Dinesh Babu, DivakarSelvaraj, TamilselvanNatrajan, **RavikumarRajan,** MrinmoyGautam, HariPrasadRanganathan, KarthikSiram, Jerry Nesamonyi, VeintramuthuSankar. Building and behavior of a pH-stimuli responsive chitosan nanoparticles loaded with folic acid conjugated gemcitabine silver colloids in MDA-MB-453 metastatic breast cancer cell line and pharmacokinetics in rats. *European Journal of Pharmaceutical Sciences* 165 (2021) 105938.
7. Marslin Gregory, Dinesh Kumar, ArjunanKarupppaiah, **RavikumarRajan,** SivaramHariharan, VeintramuthuSankar. Synthesis and characterization of folic acid conjugated Gemcitabine tethered silver nanoparticles (FA-GEM-AgNPs) for targeted delivery. *Current Pharmaceutical Design*. 2020. DOI: [10.2174/1381612826666200316143239](https://doi.org/10.2174/1381612826666200316143239).



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8. Arjun H. Ananth, Natarajan Manikandan, **Ravi Kumar Rajan**, RamakrishnanElancheran, KunasekaranLakshmithendral, MuthiahRamanathan, AtanuBhattacharjee, SenthamaraikannanKabilan. Design, Synthesis, and Biological Evaluation of 2-(2-Bromo-3-nitrophenyl)-5-phenyl-1,3,4-oxadiazole Derivatives as Possible Anti-Breast Cancer Agents. *Chemistry and Biodiversity*. 2020 Jan; 17: e1900659. DOI: [10.1002/cbdv.201900659](https://doi.org/10.1002/cbdv.201900659).
9. H.A. Arjun, **Ravi Kumar Rajan**, R. Elancheran, K. Lakshmithendral, M. Ramanathan, AtanuBhattacharjee, S. Kabilan. In-silico and in-vitro studies of Benzohydrazide analogues as potent androgen receptor antagonist. Book chapter in Conference on drug and discovery technologies. Royal society of chemistry. doi.org/10.1039/9781839160783-00103.



Faculty Name: **Bedanta Bhattacharjee**

No. of Publications: **15**

**List of publications**

Research/Review/Conference/Book chapters:

1. Asdaq SMB, Ikbal AMA, Sahu RK, **Bhattacharjee B**, Paul T, Deka B, Fattepur S, Widyowati R, Vijaya J, Al Mohaini M, Alsalman AJ, Imran M, Nagaraja S, Nair AB, Attimarad M, Venugopala KN. Nanotechnology Integration for SARS-CoV-2 Diagnosis and Treatment: An Approach to Preventing Pandemic. *Nanomaterials* (Basel). 2021 Jul 16;11(7):1841. [IF:5.719]
2. Sahu RK, Salem-Bekhit MM, **Bhattacharjee B**, Almoshari Y, Ikbal AMA, Alshamrani M, Bharali A, Salawi A, Widyowati R, Alshammari A, Elbagory I. Mucormycosis in Indian COVID-19 Patients: Insight into Its Patho-Genesis, Clinical Manifestation, and Management Strategies. *Antibiotics* (Basel). 2021 Sep 6;10(9):1079. [IF: 5.222]
3. Kumar A, Ladha A, Choudhury A, Ikbal AMA, **Bhattacharjee B**, Das T, Gupta G, Sharma C, Sarbajna A, Mandal SC, Choudhury MD, Ali N, Slama P, Rezaei N, Palit P, Tiwari ON. The chimera of S1 and N proteins of SARS-CoV-2: can it be a potential vaccine candidate for COVID-19? *Expert Rev Vaccines*. 2022 Aug;21(8):1071-1086. [IF:5.683]
4. Bezbaruah R, Chavda VP, Nongrang L, Alom S, Deka K, Kalita T, Ali F, **Bhattacharjee B**, Vora L. Nanoparticle-Based Delivery Systems for Vaccines. *Vaccines*. 2022; 10(11):1946. [IF:4.961]
5. **Bhattacharjee B**, Syeda AF, Rynjah D, Hussain SM, Chandra Bora S, Pegu P, Sahu RK, Khan J. Pharmacological impact of microRNAs in head and neck squamous cell carcinoma: Prevailing insights on molecular pathways, diagnosis, and nanomedicine treatment. *Front Pharmacol*. 2023 May 3;14:1174330. [IF- 5.98]
6. **Bhattacharjee, B.**, Ikbal, A.M.A., Farooqui, A. *et al.* Superior possibilities and upcoming horizons for nanoscience in COVID-19: noteworthy approach for effective diagnostics and management of SARS-CoV-2 outbreak. *Chem. Pap.* (2023).[IF- 2.41]
7. Bhattacharjee B, Das P, Ikbal AMA, Baidya R, Choudhury A. A Comprehensive Review on Brugada Syndrome: Etiology, Hormonal role, Current Treatment Regimen, and Role of Polyunsaturated Fatty Acids. *International Journal of Pharmaceutical Sciences and Drug Research*. 2021; 13(5), 589-599. [UGC-CARE LIST]
8. **Bhattacharjee B**, Ikbal AMA, Debnath B, Rynjah D, Rajkhowa A, Manna K. An Intensive Study on Aortic Regurgitation: A Case Report of Biventricular Failure and Congestive Cardiac Failure. *Int Case Rep Jour*. 2022;2(3):1-5.
9. Deka B, **Bhattacharjee B**, Ahmed A, Newar A, Sonowal B, Dey N, Barman D, Ikbal AMA, Rajkhowa A, Bharali A. Clinical Management of Allergic Rhinitis: A



- Comprehensive Review. *Res. J. Pharmacology and Pharmacodynamics*. 2021; 13(1):9-16.
10. **Bhattacharjee, B**, Bezbaruah, R, Rynjah, D, Newar, A, Sengupta, S, Pegu, P, Dey, N, Bora, SC, Barman, D. Cold Atmospheric Plasma: A Noteworthy Approach in Medical Science. *Sciences of Pharmacy*. 2023; 2(2):46-76.
  11. Deka B, **Bhattacharjee B**, Shakya A, Shivavedi N. Antiinflammatory therapy as a game-changer toward antiaging, Editor(s): Sandeep Kumar Singh, Chih-Li Lin, Shailendra Kumar Mishra, Anti-Aging Drug Discovery on the Basis of Hallmarks of Aging. Academic Press, 2022, pp. 325-351.
  12. Hazarika, H, Krishnatreyya H, **Bhattacharjee B**, Rynjah D, Gogoi D, Ahmed AB (2023). Liposomal Drug Delivery in Malaria. In: Shegokar, R., Pathak, Y. (eds) Malarial Drug Delivery Systems. Springer, Cham, pp.161-186.
  13. Deka B, **Bhattacharjee B**, Shivavedi N, Singh GK, Bhat HR, Ghosh SK, Shakya A (2023). Parkinson's disease: A Phytotherapeutic Prospective. In: Singh SP., Biral H., Keswani C, Traditional Medicine for neuronal health. Bentham Book, pp. 1-23.
  14. **Bhattacharjee B**, Deka B, Shivavedi N, Bhat HR, Sinha SK, Ghosh SK, Shakya A (2023). Neuroprotective Role of Medicinal Plants from North Eastern Region of India. In: Singh SP., Biral H., Keswani C, Traditional Medicine for neuronal health. Bentham Book, pp. 103-128.
  15. **Bhattacharjee B**, Dey N, Barman D, Karmakar A, Ahmed N. Understanding the drug delivery through nails: a comprehensive review. *JDDT*. 15Jul.2021 [cited 5Jun.2023];11(4):116-31.



**Faculty Name: Ms. Shahnaz Alom**

No. of Publications: 12

**List of publications**

Research/Review

1. **Alom, S.**, Ali, F., Bezbaruah, R., Kakoti, B. B. *Rosa alba* Linn.: A comprehensive review on plant profile, phytochemistry, traditional and pharmacological uses. World Journal of Pharmaceutical Research, 2020; 10(4):798-811
2. Ahmed A. **Alom, S.**, et al. The role of Pharmacists in optimizing Molecular Testing with Evolving Biomarkers and treatment for non-small cell lung cancer. European Journal of Molecular and Clinical medicine, 2020; 8(3): 2240-2259
3. **Alom, S.**, Ali, F., Zaman, K. A comprehensive review on mucormycosis (black fungus) and its association with COVID-19. Current Trends in Pharmaceutical Research, 2021; 8(1): 11-40
4. **Alom, S.**, Sadhu P, and Bezbaruah R. A comprehensive review on ethnobotanical and pharmacological uses of the tropical herb *Enydrafluctuans* Lour., Curr Trends Pharm Res, 2021; 8 (1): 119-137.
5. Ali, F., **Alom, S.**, Zaman, K. Berberine: A comprehensive review on its isolation, biosynthesis chemistry and pharmacology. Asian Journal of Chemistry, 2021; 33(11): 2548-2560
6. Ali, F., **Alom, S.**, Shakya, A., Ghosh, S. K., Singh, U. P., & Bhat, H. R. (2022). Implication of in silico studies in the search for novel inhibitors against SARS-CoV-2. Archiv der Pharmazie, 355(5): e2100360.
7. **Alom, S.**, Ali, F. et al. Phytochemistry and Pharmacological Properties of *Morus alba* Linn. with Reference to its SARS-CoV-2 Inhibiting Potential. Asian Journal of Chemistry; 2022; 34(8): 1983-1992
8. Ali, F., **Alom, S.**, Md. Kamaruz Zaman. Ethnobotany, phytochemistry and pharmacological Properties of *Zanthoxylum nitidum*: a systemic review. World Journal of Pharmaceutical Research, 2022; 11(11): 175-195



9. **Alom, S.**, Farak Ali et al. Phytochemistry, Ethnobotany and Pharmacological Uses of *Tinosporacordifolia* with Special Reference to SARS-COV-2. Asian Journal of Chemistry; 2022; 34(11): 2786-2796
10. Bezbaruah, R.; Chavda, V.P.; Nongrang, L.; **Alom, S.**; Deka, K.; Kalita, T.; Ali, F.; Bhattacharjee, B.; Vora, L. Nanoparticle-Based Delivery Systems for Vaccines. Vaccines 2022, 10, 1946.

### Book chapter

1. Gohain, A., **Alom, S.**, Choudhury D., Das K. A. Species of the Genus Selinum Found in the Western Himalayas. Immunity Boosting Medicinal Plants of the Western Himalayas. 2023. DOI: 10.1007/978-981-19-9501-9\_20
2. **Alom, S.**, Ali, F., Choudhury, D., Gohain, A., Ahmed, A.B., Zaman, K., Tuberculosis and Drug Delivery System: Clinical Trials in TB. Tuberculosis and Drug Delivery System, Springer Nature Publishers, 2023.

### Seminar attended

1. Presented in a National Seminar on “Emerging global trends in Pharmaceutical Nanotechnology” held in Dept. of Pharmaceutical Sciences, Dibrugarh University on 23<sup>rd</sup> & 24<sup>th</sup> Nov. 2018.
2. Presented in a National Seminar on “Current research in Drug discovery and development” held in Dept. of Pharmaceutical Sciences, Dibrugarh University on 13<sup>th</sup> & 14<sup>th</sup> Nov. 2019.
3. Attended a workshop on “Handling and Utility of Experimental Animals in Biomedical Research” held on the 24<sup>th</sup> and 25<sup>th</sup> of October, 2019. Conducted by Dept. of Pharmaceutical Sciences, Dibrugarh University, funded by UGC under UGC-SAP (DRS-I)
4. Presented an online seminar in International Virtual Conference on ‘Innovative Strategies in Chemical Sciences and Technology’ (ISCST 2020) held on 27<sup>th</sup> & 28<sup>th</sup> June, 2020. Conducted by Bhaktavatsalam Memorial College for Women, Chennai.
5. Participated in a “One-day workshop on Analytical cum semi-preparative HPLC systems on 29<sup>th</sup> January, 2021”. Conducted by Dept. of Pharmaceutical Sciences,



Dibrugarh University in collaboration with IPA, Assam State Branch and Spinco Biotech Pvt. Ltd.

6. Participated in five days' workshop of ATAL-FDP, on "Response effectiveness, organizing self, attitudinal shift, decision making (ROAD)", held in Girijananda Chowdhury Institute of Pharmaceutical Science- Guwahati (GIPS-Guwahati) on 6th to 10<sup>th</sup> December, 2021.
7. Presented in a National Seminar on "Recent discoveries in medical and aromatic plants research and its sustainability development in North East India", held in Dept. of Herbal Science and Technology, ADP College, Nagaon on 21<sup>st</sup> and 22<sup>nd</sup> January, 2022.
8. Participated in "IP awareness/ training program under National Intellectual Property Awareness Mission", organized by Intellectual Property office and MoEs Innovation Cell, India on 17<sup>th</sup> February, 2023.
9. Participated in five days' workshop of faculty development program (FDP), on "Advances in Research Methodology", held at Royal School of Pharmacy, Royal Global University, Guwahati, Assam on 22<sup>nd</sup> to 26<sup>th</sup> May, 2023.