Dr. SONJIT DAS
Ph.D., M.Pharm (Pharmacognosy)
Assistant Professor
Regional Institute of Paramedical and Nursing Sciences (RIPANS)
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Research Interests:

Herbal technology, Molecular biology, toxicology, plant tissue culture, green synthesis

Educational Qualifications

- ***Ph.D.in Pharmaceutical Sciences (2014-2019):*** Advanced Pharmacognosy Research Laboratory, Department of Pharmaceutical Technology, Jadavpur University, Kolkatata-700032, West Bengal, India.
- *M. Pharm. in Pharmacognosy (2011-2013):* Department of Pharmaceutical Sciences, Dibrugarh University, Assam, India.
- *B. Pharm. (2006-2010):* Regional Institute of Paramedical and Nursing Science (RIPANS), Mizoram University, Mizoram, India.

Professional Experience

- Assistant Professor: 2nd September, 2019 to30thOctober 2021atBharatTechnology Jaduberia, Uluberia, Howrah, W.B, India
- AssociateProfessor:1stNovember 2021 to 6thDecember 2023 at Bharat Technology Jaduberia, Uluberia, Howrah, W.B, India
- AssistantProfessor:19thDecember2023to till now at Regional Institute of Paramedical and Nursing Sciences (RIPANS)

Doctoral Research Experience

- Senior Research Fellow: December 2017-November 2019, Jadavpur University
- Junior Research Fellow: December2014-August 2017, Jadavpur university

Awards

- Rajiv Gandhi National Fellowship award (2014)
- GPAT 2010 qualified & 2011 qualified

Publications

1. Chakroborty, H., **Das, S.**, Ghosh, A., Jana, K., Sahu, S., Debnath, B., (2023).Heavy metal Havoc: Deciphering the cellular Mechanisms of Cadmium Toxicity. JCHR. 13(4), 1875-1890
2. Jana, K., Ghosh, A., Debnath, B., **Das., S, (2023)**. GC-MS analysis of Phytocomponent of methanolic bark extract of *Sterculia foetida***.** ResearchJ.Pharm. and Tech. 16(12), 1-7
3. **Das, S.,** Dewanjee , S., Dua, T.K., Joardar, S., Chakraborty, P., Bhowmick. S., Saha, A., Bhattacharjee, S., De Feo, V., (2019). Carnosic Acid Attenuates cadmium induced nephrotoxicity by inhibiting oxidative stress, promoting Nrf2/HO-1 signalling and impairing TGF-β1/Smad/Collagen IV Signalling. Molecules. 24(22). pii: E4176. doi: 10.3390/molecules24224176. (**Impact factor: 4.927**) (**Ph.D Work**)
4. Joardar, S., Dewanjee, S., Bhowmick, S., Dua, T.K., **Das, S.,** Saha, A., De Feo, V., (2019). Rosmarinic acid attenuates cadmium-induced nephrotoxicity via inhibition of oxidative stress, apoptosis, inflammation and fibrosis. International Journal of Molecular Sciences. 20(8), pii: E2027. doi: 10.3390/ijms20082027. (Impact factor: **6.208)**; PMID: 31022990)
5. Sahu, R., Dua, T.K., **Das, S.,** De Feo, V., Dewanjee, S., (2019). Wheat phenolicssuppress doxorubicin-induced cardiotoxicity via inhibition of oxidative stress, MAP kinase activation, NF-κB pathway, PI3K/Akt/mTOR impairment, and cardiac apoptosis. Food and Chemical Toxicology.125, 503-519. (Impact factor**: 5.572**; PMID: 30735749)
6. **Das, S.,** Joardar, S., Manna, P., Dua, T.K., Bhattacharjee, N., Khanra, R., Bhowmick, S., Kalita, J., Manna, P., (2018). Carnosic acid, a natural diterpene, attenuates arsenic-induced hepatotoxicity via reducing oxidative stress, MAPK activation, and apoptotic cell death pathway. Oxidative Medicine and Cellular Longevity. 2018, art no: 1421438. doi: 10.1155/2018/1421438. [Impact factor: **7.31**,] (**Ph.D Work**)
7. Dewanjee, S., **Das, S.,** Das, A.K, Bhattacharjee, N., Dihingia, A., Dua, T.K., Kalita, J., Saha, A., Ray, S., De Feo, V., (2018). Molecular mechanism of diabetic neuropathy and its pharmacotherapeutic targets. EuropeanJournal of Pharmacology. 2018;833,472-523. (Impact factor: **5.195**; PMID: 29966615).
8. Mondal, P., **Das, S.,** Junejo, J.A., Borah, S., Zaman, K., (2016) Evaluation of anti-diabetic potential of the hydro-alcoholic extract of the stem bark of Plumeria rubra a traditionally used medicinal source in north-east India. International Journal of Green Pharmacy. 10(4), 252- 260.

9. **Das, S**., Mondal, P., Zaman, M.K., (2013). *Curcuma caesia* Roxb. and its medicinal uses: A review. International Journal of Research in Pharmacy and Chemistry. 3(2), 370-375.
10. Mondal, P., Sharan, S.B., Zaman, M.K., Bhuyan, N., **Das, S.,** (2013) Pharmacognostical studies and phytochemical evaluation of the stem bark of *Embelica officinalis* Gaertn. Indo Global Journal of Pharmaceutical Sciences. 3(1), 58-66 11.
11. Borah, S., Kakoti, B., Kumar, M., Mahato, K., **Das, S.,** Mondal, P. 2014. Anti-arthritic potential of leaves of Lasia spinosa thwaites - an ethnomedicinal plant of Assam in complete freund's adjuvant induced arthritic rats. Indian Journal of Pharmacology. 46:S64-S64
12. Mondal, P., **Das, S**., Mahato, K., Borah, S., Junejo, J.A., Zaman, M.K. 2016. Evaluation of anti-arthritic potential of the hydro-alcoholic extract of the stem bark of *Plumeria rubra* in freund's complete adjuvant-induced arthritis in rats. Internation Journal of Pharmaceutical Science and Research . 7(9): 3675-3688.
13. Mondal, P., Kumar, M., **S, Das**., Zaman, M.K., S, Borah., Mahato, K., 2013. Pharmacognostical characterization of the bark of the plant Plumeria rubra. International Journal of Pharmaceutical Research and Development. 5 (3), 59-67.
14. S, Borah., Mondal, P., Mahato, K., **Das, S.,** 2012. Herbal Medicines useful for the treatment of Diabetes in North- East India: A Review. International Journal of Pharmacy and Biological Sciences 3(1):575-589

Book Chapter

1. Dewanjee, S., **Das, S**., Joardar, S., Bhattacharjee, S., Chakraborty, P. (2021). Carotenoids as anticancer agents. In: Carotenoids: Structure and Function in the Human Body. M. ZiaUl-Haq, S. Dewanjee, M. Riaz. (Eds.). Springer.

Patent:

1. "Preparation for various bodily disorders like obesity, hyperlipidaemia and immunosuppression" Indian Patent Application No.202211022422 A

2. "Polyherbal Formulation For Improving Fertility" German Utility Model Utility Patent Application No: 202022102391.3

Abstracts published in seminar/conferences

1. **Das S,** Dewanjee S. Prophylactic role of carnosic acid against cadmium-induced neprhrotoxicity via inhibition of oxidative stress and associated signal transduction. Poster presented in the national seminar entitled " Pharmacy & Healthcare: Traditional Knowledge to Modern Techniques". Jadavpur University. Kolkata, West Bengal held on September 14, 2018, Abstract book pp. 121.
2. **Das, S**., Dewanjee, S. Prophylactic role of carnosic acid against NaAsO2 induced hepatotoxicity. National Seminar on "Recent Advances and Scope in Herbal Technology: Challenges and Prospect" 09-10 December, 2016, Department of Pharmaceutical Sciences, Assam University, Silchar, Assam.

3. **Das, S.,** Dewanjee, S. Cytoprotective and antioxidant role of carnosic acid against CdCl2 induced hepatotoxicity. North East Pharmaceutical convention. 06-07 May, 2017, Maniram Dewan Trade Center, Guwahati, Assam.

Seminar/Conference/Workshops Participated

1. International Symposium on Sustainable Public Health Practice For Good Health, Peace, and Prosperity, 24th February, 2012, Department of Pharmaceutical Sciences, Dibrugarh University, Dibrugarh. 2. Workshop on "Drug Discovery Technology" 1-2 September, 2012, Indian Institute of Technology Guwahati, Guwahati.
2. Workshop on "Intenllectual Property, Technology Management and Entrepeurship" 18th February, 2013, Department of Pharmaceutical, Dibrugarh.
3. JU IAPST National Seminar on "Drug and Diseases: Role of Pharmacists and Doctors" 16th January, 2016, Jadavpur University, Kolkata.

Technical expertise

Acquainted with the operation of HPLC, HPTLC, High Speed Homogenizer, Rotary Evaporator, Cold Centrifuge, UV-Visible Spectrophotometer, Western blot, animal cell culture, IR, plant Tissue culture

Personal Details

Name: Dr. Sonjit Das

Date of birth: 01/01/1984

Spouse: Alaka Das

Son: Vihaan Kashyap

Father's name: Ananda Das

Mother's name: Renu Das

Siblings: Brothers- 3 and Sister- 2

Nationality: Indian

Languages known: Assamese, Bengali, Hindi, English

Hobbies and interests: Community service, Cooking and playing flute

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Signature

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