

Curriculum Vitae

Dr. Tarun Kumar Dua

Designation Assistant Professor

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Subject Specialization: Pharmacognosy

Academic qualification:

2007: B. Pharm, Jadavpur University, India

2010: M. Pharm, Jadavpur University, India

2018: Ph.D in Pharmacy, Jadavpur University, India

Professional experiences:

Teaching Experience:4 years

February 08, 2019 to till date Assistant Professor, Department of Pharmaceutical Technology, University of North Bengal, Darjeeling, W.B., India

February 01, 2011 to April 13, 2013 Lecturer at GRY Institute of Pharmacy, Borawan, Madhya Pradesh, India

Research Experience:5.5 years

April 17, 2013- April 16, 2017 CSIR-Senior Research Fellow (SRF)

June 02, 2017- February 07, 2019 Research Associate (RA) in a CSIR funded research scheme

Areas of Research Interest: Phytochemistry, Phytotherapy, Toxicology, Molecular Biology.

No. of Ph.D students: (a) Supervised:Nil (b) Ongoing:Nil

No. of M.Pharm students: (a) Supervised:Nil (b) Ongoing:01.

No. of Publications:(a) Journal(s):25(b) Book(s):00(c) Book chapter(s):02

List of Publications:

Research papers:

1. Das, S., Dewanjee, S., **Dua, T.K.**, Joardar, S., Chakraborty, P., Bhowmick, S., Saha, A., Bhattacharjee, S. and De Feo, V., (2019) Carnosic Acid Attenuates Cadmium Induced Nephrotoxicity by Inhibiting Oxidative Stress, Promoting Nrf2/HO-1 Signalling and Impairing TGF- β 1/Smad/Collagen IV Signalling. *Molecules*, 24(22), p.4176. <https://doi.org/10.3390/molecules24224176> [Impact factor: 3.267]
2. Joardar, S., Dewanjee, S., Bhowmick, S., **Dua, T.K.**, Das, S., Saha, A. and 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), p.2027. <https://doi.org/10.3390/ijms20082027> [Impact factor: 4.556]
3. Sahu, R., **Dua, T.K.**, Das, S., De Feo, V., Dewanjee, S. (2019) Wheat phenolics suppress doxorubicin-induced cardiotoxicity via inhibition of oxidative stress, MAP kinase activation, NF- κ B pathway, PI3K/Akt/mTOR impairment, and cardiac apoptosis. *Food and Chemical Toxicology*. 125, 503-519. <https://doi.org/10.1016/j.fct.2019.01.034> [Impact factor: 4.679]
4. Dewanjee, S., Das, S., Das, A.K., Bhattacharjee, N., Dihingia, A., **Dua, T.K.**, Kalita, J., Manna, P. (2018) Molecular mechanism of diabetic neuropathy and its pharmacotherapeutic targets. *European Journal of Pharmacology*. 15, 472-523. <https://doi.org/10.1016/j.ejphar.2018.06.034> [Impact factor: 3.263]
5. Das, S., Joardar, S., Manna, P., **Dua, T.K.**, Bhattacharjee, N., Khanra, R., Bhowmick, S., Kalita, J., Saha, A., Ray, S., De Feo, V., Dewanjee, S. (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*. 2018:1421438. <https://doi.org/10.1155/2018/1421438> [Impact factor: 4.936]
6. Khanra, R., Bhattacharjee, N., **Dua, T.K.**, Nandy, A., Saha, A., Kalita, J., Manna, P., Dewanjee, S. (2017) Taraxerol, a pentacyclitriterpenoid, from *Abroma augusta* leaf attenuates diabetic nephropathy in type 2 diabetic rats. *Biomedicine & Pharmacotherapy*. 9;94:726-741. <https://doi.org/10.1016/j.biopha.2017.07.112> [Impact factor: 4.545]
7. Dewanjee, S., Dua, T.K., Bhattacharjee, N., Das, A., Gangopadhyay, M., Khanra, R., Joardar, S., Riaz, M., De Feo, V., Zia-Ul-Haq, M. (2017). Natural products as alternative choice for P-glycoprotein (P-gp) inhibition. *Molecules*. 22(6). <https://doi.org/10.3390/molecules22060871> [Impact factor: 3.267]
8. Dewanjee, S., Joardar, S., Bhattacharjee, N., **Dua, T.K.**, Das, S., Kalita, J., Manna, P. (2017). Edible leaf extract of *Ipomoea aquatica* Forssk. (Convolvulaceae) attenuates doxorubicin-induced liver injury via inhibiting oxidative impairment, MAPK activation and intrinsic pathway of apoptosis. *Food and Chemical Toxicology*. 105, 322-336. <https://doi.org/10.1016/j.fct.2017.05.002> [Impact factor: 4.679]
9. Bhattacharjee, N., **Dua, T.K.**, Khanra, R., Joardar, S., Nandy, A., Saha, A., De Feo, V., Dewanjee, S. (2017). Protocatechuic acid, a phenolic from *Sansevieria roxburghiana* leaves, suppresses diabetic cardiomyopathy via stimulating glucose metabolism, ameliorating oxidative stress and inhibiting inflammation. *Frontier in Pharmacology*. 8, 251 <https://doi.org/10.3389/fphar.2017.00251> [Impact factor: 4.225]
10. Khanra, R., Dewanjee, S., **Dua, T.K.**, Bhattacharjee, N. (2017). Taraxerol, a pentacyclitriterpene from *Abroma augusta* leaf, attenuates acute inflammation via inhibition of NF- κ B signaling.

Biomedicine & Pharmacotherapy. 88, 918-923. <https://doi.org/10.1016/j.biopha.2017.01.132> [Impact factor: 4.545]

11. Bhattacharjee, N., Khanra, R., **Dua, T.K.**, Das, S., De, B., Zia-Ul-Haq, M., De Feo, V., Dewanjee, S. (2016). *Sansevieriaroxburghiana* Schult. & Schult. F. (family: Asparagaceae) attenuates type 2 diabetes and its associated cardiomyopathy. Plos One. 11(11),e0167131. <https://doi.org/10.1371/journal.pone.0167131> [Impact factor: 2.740]
12. **Dua, T.K.**, Dewanjee, S., Khanra, R., Joardar, S., Barma, S., Das, S., Zia-Ul-Haq, M., De Feo, V. (2016). Cytoprotective and antioxidant effects of an edible herb, *Enhydrafluctuans* Lour. (Asteraceae), against experimentally induced lead acetate intoxication. Plos One. 11(2),e0148757. <https://doi.org/10.1371/journal.pone.0148757> [Impact factor: 2.740]
13. **Dua, T.K.**, Dewanjee, S., Khanra, R. (2016). Prophylactic role of *Enhydrafluctuans* against arsenic-induced hepatotoxicity via anti-apoptotic and antioxidant mechanisms. Redox Report. 21, 147-154. <https://doi.org/10.1179/1351000215Y.0000000021> [Impact factor: 2.070]
14. **Dua, T.K.**, Dewanjee, S., Gangopadhyay, M., Khanra, R., Zia-Ul-Haq, M., De Feo, V. (2015). Ameliorative effect of water spinach, *Ipomoea aquatica* (Convolvulaceae), against experimentally induced arsenic toxicity. Journal of Translational Medicine. 13, 81. <https://doi.org/10.1186/s12967-015-0430-3> [Impact factor: 4.124]
15. Khanra, R., Dewanjee, S., **Dua, T.K.**, Sahu, R., Gangopadhyay, M., De Feo, V., Zia-Ul-Haq, M. (2015). *Abroma augusta* L. (Malvaceae) leaf extract attenuates diabetes induced nephropathy and cardiomyopathy via inhibition of oxidative stress and inflammatory response. Journal of Translational Medicine. 13, 6. <https://doi.org/10.1186/s12967-014-0364-1> [Impact factor: 4.124]
16. Dewanjee, S., Gangopadhyay, M., Bhaqtacharya, N., Khanra, R., **Dua, T.K.** (2015). Bioautography and its scope in the field of natural product chemistry. Journal of Pharmaceutical Analysis. 5, 75-84. <https://doi.org/10.1016/j.jpha.2014.06.002>. [Impact factor: 2.673]
17. **Dua, T.K.**, Dewanjee, S., Khanra, R., Bhattacharya, N., Bhaskar, B., Zia-Ul-Haq, M., De Feo, V. (2015). The effects of two common edible herbs, *Ipomoea aquatica* and *Enhydrafluctuans*, on cadmium-induced pathophysiology: a focus on oxidative defence and anti-apoptotic mechanism. Journal of Translational Medicine. 13, 245. <https://doi.org/10.1186/s12967-015-0598-6> [Impact factor: 4.124]
18. Dewanjee S., **Dua T.K.**, Khanra R., Das S., Barma S., Joardar S., Bhattacharjee N., Zia-Ul-Haq M., Jaafar H.Z. (2015). Water Spinach, *Ipomoea aquatica* (Convolvulaceae), Ameliorates Lead Toxicity by Inhibiting Oxidative Stress and Apoptosis. PLoS One. 10(10):e0139831 <https://doi.org/10.1371/journal.pone.0139831> [Impact factor: 2.740]
19. Dewanjee, S., **Dua, T.K.**, Sahu, R. (2013). Potential anti-Inflammatory effect of *Leeamacrophylla* Roxb. leaves: a wild edible plant. Food and Chemical Toxicology. 59, 514-520. <https://doi.org/10.1016/j.fct.2013.06.038> [Impact factor: 4.679]
20. Sahu, R., Dewanjee, S., **Dua, T.K.**, Gangopadhyay, M., Das, A.K., Dey, S.P. (2012). Dereplication coupled with in vitro antioxidant assay of two flavonoid glycosides from *Diospyros peregrina* fruit. Natural Product Research. 26, 454-459. <https://doi.org/10.1080/14786411003792199> [Impact factor: 2.158]
21. Dewanjee, S., Mandal, V., Sahu, R., **Dua, T.K.**, Manna, A., Mandal, S.C. (2011). Anti-inflammatory activity of a polyphenolic enriched extract of *Schima wallichi* bark. Natural Product Research. 25, 696-703. <https://doi.org/10.1080/14786410802560732> [Impact factor: 2.158]
22. Das, A.K., Sahu, R., **Dua, T.K.**, Bag, S., Gangopadhyay, M., Sinha, M.K., **Dewanjee, S.** (2010). Arsenic-induced myocardial injury: Protective role of *Corchorus solitorius* leaves. Food and

Chemical Toxicology. 48, 1210-1217. <https://doi.org/10.1016/j.fct.2010.02.012> [Impact factor: 4.679]

23. Das, A.K., Dewanjee, S., Sahu, R., **Dua, T.K.**, Gangopadhyay, M., Sinha, M.K. (2010). Protective effect of *Corchorusolitorius* leaves against arsenic induced oxidative stress in rat brain. Environmental Pharmacology and toxicology. 29, 64-69. <https://doi.org/10.1016/j.etap.2009.10.002> [Impact factor: 3.292]
24. Das, A.K., Bag, S., Sahu, R., **Dua, T.K.**, Sinha, M.K., Gangopadhyay, M., Zaman, K., Dewanjee, S. (2010). Protective effect of *Corchorusolitorius* leaves on sodium arsenite-induced toxicity in experimental rats. Food and Chemical Toxicology. 48, 326-335. <https://doi.org/10.1016/j.fct.2009.10.020> [Impact factor: 4.679]
25. Dewanjee, S., Maiti, A., Sahu, R., **Dua, T.K.**, Mandal, S.C. (2009). Study of anti-inflammatory and antinociceptive activity of hydroalcoholic extract of *Schimawallichii* bark. Pharmaceutical Biology. 47, 402-407. <https://doi.org/10.1080/13880200902758824> [Impact factor: 2.971]

Book or Book Chapters:

1. Dewanjee, S., Paul, P., Dua, T.K., Bhowmick, S. and Saha, A., 2020. Big Leaf Mahogany Seeds: *Swieteniamacrophylla* Seeds Offer Possible Phytotherapeutic Intervention Against Diabetic Pathophysiology. In Nuts and Seeds in Health and Disease Prevention (pp. 543-565). Academic Press.
2. Dua, T.K. and Paul, P., 2020. Naturally Occurring Coloring and Flavoring Agents. In Plant-derived Bioactives (pp. 549-569). Springer, Singapore.

Patent: Nil

Research Projects: Nil

Achievement & Awards:

1. Awarded CSIR-Senior Research Fellowships (SRF-Direct) in 2013.
2. Selected as Research Associate (RA) in a CSIR funded research scheme at Department of Pharmaceutical Technology, Jadavpur University, Kolkata.

Membership of Learned Societies:

1. Life Member of Association of Pharmaceutical Teachers of India (APTI)
2. Life Member of Indian Association of Pharmaceutical Scientists and Technologists (IAPST)