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**Specialization:** Endocrinology & Reproductive Physiology

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### Publications:

1. Pal, S., **Bhattacharjee, A.**, Mukherjee, S., Bhattacharya, K. and Khowala, S., 2014. Antioxidant and hepatoprotective activity of ethanolic extract of *Alocasia indica* tuber. American Journal of Phytomedicine and Clinical Therapeutics, 2(2), pp.191-208.
2. Pal, S., **Bhattacharjee, A.**, Mukherjee, S., Bhattacharya, K., Mukherjee, S. and Khowala, S., 2014. Effect of *Alocasia indica* tuber extract on reducing hepatotoxicity and liver apoptosis in alcohol intoxicated rats. BioMed research international, 2014.
3. Prasad, S.K., **Bhattacharjee, A.**, Bandyopadhyay, P., Pal, S., Syamal, A.K. and Mukherjee, S., 2014. Erythrocyte functional status and lipid profile of coal mine workers of West Bengal, India. Progress in Health Sciences, 4(2), pp.14-21.
4. **Bhattacharjee, A.**, Prasad, S.K., Pal, S., Maji, B., Syamal, A.K., Banerjee, A. and Mukherjee, S., 2015. Protective efficacy of folic acid and vitamin B12 against nicotine-induced toxicity in pancreatic islets of the rat. Interdisciplinary toxicology, 8(2), pp.103-111.
5. **Bhattacharjee, A.**, Prasad, S.K., Pal, S., Maji, B., Syamal, A.K. and Mukherjee, S., 2016. Synergistic protective effect of folic acid and vitamin B12 against nicotine-induced oxidative stress and apoptosis in pancreatic islets of the rat. Pharmaceutical biology, 54(3), pp.433-444.
6. **Bhattacharjee, A.**, Prasad, S.K., Pal, S., Maji, B., Banerjee, A., Das, D., Bose, A., Chatterjee, N. and Mukherjee, S., 2016. Possible involvement of iNOS and TNF- $\alpha$  in nutritional intervention against nicotine-induced pancreatic islet cell damage. Biomedicine & Pharmacotherapy, 84, pp.1727-1738.
7. Chatterjee, P., **Bhattacharjee, A.**, Banerjee, A., Bandyopadhyay, S. and Bandyopadhyay, A., 2017. Some important metabolic markers in blood of trained endomorph, mesomorph and ectomorph male athletes. International Journal of Physiology, Nutrition and Physical Education, 2(1), p.335.
8. **Bhattacharjee, A.**, Prasad, S.K., Banerjee, O., Singh, S., Banerjee, A., Bose, A., Pal, S., Maji, B.K. and Mukherjee, S., 2018. Targeting mitochondria with folic acid and vitamin B12 ameliorates nicotine mediated islet cell dysfunction. Environmental toxicology, 33(9), pp.988-1000.
9. Banerjee, O., Singh, S., Prasad, S.K., **Bhattacharjee, A.**, Banerjee, A., Banerjee, A., Saha, A., Maji, B.K. and Mukherjee, S., 2018. Inhibition of catalase activity with 3-amino-1, 2, 4-triazole intensifies bisphenol A (BPA)-induced toxicity in granulosa cells of female albino rats. Toxicology and industrial health, 34(11), pp.787-797.
10. Saha, A., Mukherjee, S., **Bhattacharjee, A.**, Sarkar, D., Chakraborty, A., Banerjee, A. and Chandra, A.K., 2019. Excess iodine-induced lymphocytic impairment in adult rats. Toxicology Mechanisms and Methods, 29(2), pp.110-118.



11. Kumari Prasad, S., Singh, S., Bose, A., Prasad, B., Banerjee, O., **Bhattacharjee, A.**, Kumar Maji, B., Samanta, A. and Mukherjee, S., 2019. Combined effect of coal dust exposure and smoking on the prevalence of respiratory impairment among coal miners of West Bengal, India. *Archives of Environmental & Occupational Health*, 74(6), pp.350-357.
12. Prasad, S.K., Bose, A., **Bhattacharjee, A.**, Banerjee, O., Singh, S., Mukherjee, S. and Pal, S., 2019. Radioprotective effect of ethanolic extract of *Alocasia indica* on  $\gamma$ -irradiation-induced reproductive alterations in ovary and uterus. *International Journal of Radiation Biology*, 95(11), pp.1529-1542.
13. Ray, D., **Bhattacharjee, A.**, Banerjee, O., Prasad, S.K., Singh, S., Maji, B.K., Samanta, A., Mondal, A.C. and Mukherjee, S., 2019. Folic acid and vitamin B12 ameliorate nicotine-induced testicular toxicity in rats. *Biomedicine*, 39(2), pp.353-368.
14. Singh, S., Nandi, A., Banerjee, O., **Bhattacharjee, A.**, Prasad, S.K., Maji, B.K., Saha, A. and Mukherjee, S., 2020. Cold stress modulates redox signalling in murine fresh bone marrow cells and promotes osteoclast transformation. *Archives of Physiology and Biochemistry*, 126(4), pp.348-355.
15. Singh, S., Banerjee, O., **Bhattacharjee, A.**, Prasad, S.K., Bose, A., Maji, B.K. and Mukherjee, S., 2020. Effect of individual and combined supplementation of phytoene, phytofluene, and lycopene against nicotine-induced pancreatic islet cell dysfunction. *Toxicology and Environmental Health Sciences*, 12, pp.11-22.
16. Banerjee, A., Das, D., Paul, R., Roy, S., **Bhattacharjee, A.**, Prasad, S.K., Banerjee, O., Mukherjee, S. and Maji, B.K., 2020. Altered composition of high-lipid diet may generate reactive oxygen species by disturbing the balance of antioxidant and free radicals. *Journal of basic and clinical physiology and pharmacology*, 31(3).
17. Prasad, S.K., Singh, S., Bose, A., Prasad, B., Banerjee, O., **Bhattacharjee, A.**, Maji, B.K., Samanta, A. and Mukherjee, S., 2021. Association between duration of coal dust exposure and respiratory impairment in coal miners of West Bengal, India. *International Journal of Occupational Safety and Ergonomics*, 27(3), pp.794-804.
18. Pal, S., **Bhattacharjee, A.**, Banerjee, O., Prasad, S.K., Singh, S. and Mukherjee, S., 2021. Amelioration of ethanol intoxicated ovarian dysfunction by *Alocasia indica* tuber: possible involvement of nuclear factor kappa B. *Environmental and Experimental Biology*, 19(3), pp.173-183.
19. Das, D., Banerjee, A., **Bhattacharjee, A.**, Mukherjee, S. and Maji, B.K., 2022. Dietary food additive monosodium glutamate with or without high-lipid diet induces spleen anomaly: A mechanistic approach on rat model. *Open Life Sciences*, 17(1), pp.22-31.