

List of 10 best papers highlighting the important discoveries

1. Dey DK, Kang SC. Aflatoxin B1 induces reactive oxygen species-dependent caspase-mediated apoptosis in normal human cells, inhibits *Allium cepa* root cell division, and triggers inflammatory response in zebrafish larvae. *Sci Total Environ.* 2020 Oct 1;737:139704. doi: 10.1016/j.scitotenv.2020.139704. Epub 2020 May 26. PMID: 32512299.
2. Dey DK, Chang SN, Kang SC. The inflammation response and risk associated with aflatoxin B1 contamination was minimized by insect peptide CopA3 treatment and act towards the beneficial health outcomes. *Environ Pollut.* 2021 Jan 1;268(Pt B):115713. doi: 10.1016/j.envpol.2020.115713. Epub 2020 Oct 5. PMID: 33038573.
3. Dey DK, Kang JI, Bajpai VK, Kim K, Lee H, Sonwal S, Simal-Gandara J, Xiao J, Ali S, Huh YS, Han YK, Shukla S. Mycotoxins in food and feed: toxicity, preventive challenges, and advanced detection techniques for associated diseases. *Crit Rev Food Sci Nutr.* 2022 Apr 21:1-22. doi: 10.1080/10408398.2022.2059650. Epub ahead of print. PMID: 35445609.
4. Dey DK, Kang SC. CopA3 peptide induces permanent cell-cycle arrest in colorectal cancer cells. *Mech Ageing Dev.* 2021 Jun;196:111497. doi: 10.1016/j.mad.2021.111497. Epub 2021 May 3. PMID: 33957217.
5. Dey DK, Sharma C, Vadlamudi Y, Kang SC. CopA3 peptide inhibits MDM2-p53 complex stability in colorectal cancers and activates p53 mediated cell death machinery. *Life Sci.* 2023 Apr 1;318:121476. doi: 10.1016/j.lfs.2023.121476. Epub 2023 Feb 8. PMID: 36758667.
6. Dey DK, Gahlot H, Chang SN, Kang SC. CopA3 treatment suppressed multidrug resistivity in HCT-116 cell line by p53-induced degradation of hypoxia-inducible factor 1 α . *Life Sci.* 2023 Sep 15;329:121933. doi: 10.1016/j.lfs.2023.121933. Epub 2023 Jul 12. PMID: 37451396.
7. Dey DK, Chang SN, Vadlamudi Y, Park JG, Kang SC. Synergistic therapy with tangeretin and 5-fluorouracil accelerates the ROS/JNK mediated apoptotic pathway in human colorectal cancer cell. *Food Chem Toxicol.* 2020 Sep;143:111529. doi: 10.1016/j.fct.2020.111529. Epub 2020 Jun 30. PMID: 32619557.
8. Lee H, Dey DK, Kim K, Kim SM, Kim EK, Kang SC, Bajpai VK, Huh YS. Hypoxia-responsive nanomedicine to overcome tumor microenvironment-mediated resistance to chemo-photodynamic therapy. *Materials Today Advances.* 2022, Volume 14, 100218. *First Equal Author.*
9. Rai R, Dey DK, Benbrook DM, Chandra V. Niclosamide causes lysosome-dependent cell death in endometrial cancer cells and tumors. *Biomed Pharmacother.* 2023 May;161:114422. doi: 10.1016/j.biopha.2023.114422. Epub 2023 Feb 23. PMID: 36841028. *First Equal Author.*
10. Chang SN, Dey DK, Oh ST, Kong WH, Cho KH, Al-Olayan EM, Hwang BS, Kang SC, Park JG. Phorbol 12-Myristate 13-Acetate Induced Toxicity Study and the Role of Tangeretin in Abrogating HIF-1 α -NF- κ B Crosstalk In Vitro and In Vivo. *Int J Mol Sci.* 2020 Dec 4;21(23):9261. doi: 10.3390/ijms21239261. PMID: 33291656; PMCID: PMC7729754. *First Equal Author.*