

## Publications

- Yadav S, Dwivedi A, **Tripathi A\***. Biology of macrophage fate decision: Implication in inflammatory disorders. *Cell Biol Int.* 2022 Jul 16. doi: 10.1002/cbin.11854. Epub ahead of print. PMID: 35842768.
- Yadav S, Singh S, Mandal P, **Tripathi A\***. Immunotherapies in the treatment of immunoglobulin E-mediated allergy: Challenges and scope for innovation (Review). *Int J Mol Med.* 2022 Jul;50(1):95. doi: 10.3892/ijmm.2022.5151. Epub 2022 May 26. PMID: 35616144.
- Shukla V, Asthana S, Singh S, **Anurag Tripathi\***. Role of anthraquinones in Cassia occidentalis induced hepato-myo-encephalopathy. *J Ethnopharmacol.* 2021 Mar 1;267:113431. doi: 10.1016/j.jep.2020.113431. Epub 2020 Oct 1. PMID: 33011371.
- Shukla V, Asthana S, Yadav S, Rajput VS, **Tripathi A\***. Emodin inhibited NADPH-quinone reductase competitively and induced cytotoxicity in rat primary hepatocytes. *Toxicon.* 2020 Dec;188:117-121. doi: 10.1016/j.toxicon.2020.10.018. Epub 2020 Oct 22. PMID: 33122156.
- Mishra S, Srivastava S, Divakar A, et al. Celecoxib reduces Deoxynivalenol induced proliferation, inflammation and protein kinase C translocation via modulating downstream targets in mouse skin. *Chem Biol Interact.* 2020;326:109128. doi:10.1016/j.cbi.2020.109128.
- Serhan CN, Gupta SK, Perretti M, Godson C, Brennan E, Li Y, Soehnlein O, Shimizu T, Werz O, Chiurchiù V, Azzi A, Dubourdeau M, Gupta SS, Schopohl P, Hoch M, Gjordevikj D, Khan FM, Brauer D, Tripathi A, Cesnulevicius K, Lescheid D, Schultz M, Särndahl E, Repsilber D, Kruse R, Sala A, Haeggström JZ, Levy BD, Filep JG, Wolkenhauer O. The Atlas of Inflammation Resolution (AIR). *Mol Aspects Med.* 2020 Aug;74:100894. doi: 10.1016/j.mam.2020.100894. Epub 2020 Sep 3. PMID: 32893032; PMCID: PMC7733955.
- Rai A, Das M, **Tripathi A\***. Occurrence and toxicity of a fusarium mycotoxin, zearalenone [published online ahead of print, 2019 Aug 26]. *Crit Rev Food Sci Nutr.* 2019;1-20. doi:10.1080/10408398.2019.1655388.
- Rai A, Dixit S, Singh SP, Gautam NK, Das M, **Tripathi A\***. Presence of Zearalenone in Cereal Grains and Its Exposure Risk Assessment in Indian Population. *J Food Sci.* 2018 Dec; 83(12):3126-3133.
- Asthana S, Dixit S, Srivastava A, Kumar A, Singh SP, **Tripathi A\***, Das M. Methylenecyclopropyl glycine, not pesticide exposure as the primary etiological factor underlying hypoglycemic encephalopathy in Muzaffarpur, India. *Toxicol Lett.* 2019 Feb;301:34-41.
- Kushwaha V, Tewari P, Mandal P, Tripathi A, Murthy PK. Troponin 1 of human filarial parasite Brugia malayi: cDNA cloning, expression, purification, and its immunoprophylactic potential. *Parasitol Res.* 2019 Jun;118(6):1849-1863.
- Mandal P, Tewari P, Kumar S, Yadav S, Ayanur A, Chaturvedi RK, Das M, **Tripathi A\***. Argemone oil, an edible oil adulterant, induces systemic immunosuppression in Balb/c mice in an oral 28 days repeated dose toxicity study. *Chem Biol Interact.* 2018

Apr 12. pii: S0009-2797(18)30051-6. doi: 10.1016/j.cbi.2018.04.013. PubMed PMID: 29655912.

- Panigrahi GK, Verma N, Singh N, Asthana S, Gupta SK, Tripathi A, Das M. Interaction of anthraquinones of *Cassia occidentalis* seeds with DNA and Glutathione. *Toxicology reports*. 2018; 5, 164-172.
- Singh J, Srivastva AK, Mandal P, Chandra S, Dubey D, Dwivedi A, Chopra D, Tripathi A, Ray RS. Under ambient UVA exposure, pefloxacin exhibits both immunomodulatory and genotoxic effects via multiple mechanisms. *J Photochem Photobiol B*. 2017 Dec 15;178:593-605.
- Tewari P, Mandal P, Roy R, Asthana S, Dwivedi PD, Das M, **Tripathi A\***. A novel function of TLR4 in mediating the immunomodulatory effect of Benzanthrone, an environmental pollutant. *Toxicol Lett*. 2017 Jul 5;276:69-84.
- Gupta RK, Raghav A, Sharma A, Gupta K, Neelabh, Mandal P, Tripathi A, Ansari IA, Das M, Dwivedi PD. Glycation of clinically relevant chickpea allergen attenuates its allergic immune response in Balb/c mice. *Food Chem*. 2017 Nov 15;235:244-256.
- Panigrahi GK, Yadav A, Mandal P, **Tripathi A\***, Das M. Immunomodulatory potential of Rhein, an anthraquinone moiety of Cassia occidentalis seeds. *Toxicol Lett*. 2016 Mar 14; 245:15-23.
- Yadav A, Kumar A, Das M, **Tripathi A\***. Sodium benzoate, a food preservative, affects the functional and activation status of splenocytes at non cytotoxic dose. *Food Chem Toxicol*. 2016 Feb; 88:40-7.
- Arora D, Siddiqui MH, Sharma PK, Singh SP, Tripathi A, Mandal P, Singh US, Singh PK, Shukla Y. Evaluation and physiological correlation of plasma proteomic fingerprints for deltamethrin-induced hepatotoxicity in Wistar rats. *Life Sci*. 2016 Apr 30. pii: S0024-3205(16)30239-9.
- GK Panigrahi, MK Suthar, N Verma, S Asthana, A Tripathi, Shailendra K Gupta, Jitendra K Saxena, S Raisuddin, Mukul Das. Investigation of the interaction of anthraquinones of Cassia occidentalis seeds with bovine serum albumin by molecular docking and spectroscopic analysis: Correlation to their in vitro cytotoxic potential. *Food Research International*. 2015; 77, 368-377.
- M Das, S Asthana, SP Singh, S Dixit, A Tripathi, TJ John. Litchi fruit contains methylene cyclopropyl-glycine. *Current Science*. 2015 Nov; 109 (12), 2195-2197.
- Tiwari SK, Agarwal S, Tripathi A, Chaturvedi RK. Bisphenol-A Mediated Inhibition of Hippocampal Neurogenesis Attenuated by Curcumin via anonical Wnt Pathway. *Mol Neurobiol*. 2015 May 12. [Epub ahead of print] PubMed PMID: 25963729.
- Panigrahi GK, Yadav A, Srivastava A, Tripathi A, Raisuddin S, Das M. Mechanism of Rhein-Induced Apoptosis in Rat Primary Hepatocytes:Beneficial Effect of Cyclosporine A. *Chem Res Toxicol*. 2015 May 8. [Epub ahead of print] PubMed PMID:25915446.
- Roy R, Kumar D, Sharma A, Gupta P, Chaudhari BP, Tripathi A, Das M, Dwivedi PD. ZnO nanoparticles induced adjuvant effect via toll-like receptors and Src signaling in Balb/c mice. *Toxicol Lett*. 2014 Nov 4;230(3):421-33. doi:10.1016/j.toxlet.2014.08.008. Epub 2014 Aug 13. PubMed PMID: 25127755.

- Rastogi SD, Dixit S, **Tripathi A\***, Das M. Simultaneous Determination of Acetaminophen and Synthetic Color(s) by Derivative Spectroscopy in Syrup Formulations and Validation by HPLC: Exposure Risk of Colors to Children. *AAPS PharmSciTech*. 2014 Nov 6. [Epub ahead of print] PubMed PMID: 25374343.
- Tewari P, Roy R, Mishra S, Mandal P, Yadav A, Chaudhari BP, Chaturvedi RK, Dwivedi PD, **Tripathi A\***, Das M. Benzanthrone induced immunotoxicity via oxidative stress and inflammatory mediators in Balb/c mice. *Immunobiology*. 2015 Mar;220(3):369-81. doi: 10.1016/j.imbio.2014.10.011. Epub 2014 Oct 18. PubMed PMID: 25454808.
- Mishra S, Tripathi A, Chaudhari BP, Dwivedi PD, Pandey HP, Das M. Deoxynivalenol induced mouse skin cell proliferation and inflammation via MAPKs pathway. *Toxicol Appl Pharmacol*. 2014 Jun 14. pii: S0041-008X(14)00226-9. doi:10.1016/j.taap.2014.06.003.
- Ruchi Roy, L.K.S Chauhan, Mukul Das, **Anurag Tripathi\***, Premendra D Dwivedi. Phagocytic cells internalize ZnO particles by Fc $\gamma$ II/III-receptor pathway. *Immunobiology*. 2014 (<http://dx.doi.org/10.1016/j.imbio.2014.06.002>)
- Dinesh Kumar, Sandeep Kumar, Alok K. Verma, Akanksha Sharma, Anurag Tripathi, Bhushan P. Chaudhari, Surya Kant, Mukul Das, Swatantra K. Jain, Premendra D. Dwivedi. Hypersensitivity linked to exposure of Broad bean protein(s) in allergic patients and BALB/c mice. <http://dx.doi.org/10.1016/j.nut.2013.11.024>.
- Sandeep Kumar, Akanksha Sharma, Neelabh, Gulshan Singh, Alok K. Verma, Ruchi Roy, Rinkesh Gupta, Amita Misra, Anurag Tripathi, Kausar M. Ansari, Mukul Das, Rishi Shanker, Premendra D. Dwivedi. March 2014. Allergenic responses of green gram (*Vigna radiata* L. Millsp) proteins can be vitiated by induction of oral tolerance due to single acute dose in BALB/c mice. *Food Research International*. 57, (130-141).
- Roy R, Singh SK, Chauhan LK, Das M, **Tripathi A\***, Dwivedi PD. Zinc oxide nanoparticles induce apoptosis by enhancement of autophagy via PI3K/Akt/mTOR inhibition. *Toxicol Lett*. 2014 Mar 12;227(1):29-40. doi: 10.1016/j.toxlet.2014.02.024. [Epub ahead of print] PubMed PMID: 24614525.
- Roy R, Singh SK, Das M, **Tripathi A\***, Dwivedi PD. Toll-like receptor 6 mediated inflammatory and functional responses of Zinc Oxide nanoparticles primed macrophages. *Immunology*. 2014 Jul;142(3):453-64. doi: 10.1111/imm.12276. PubMed PMID: 24593842
- Kumar S, Verma AK, Sharma A, Roy R, Kumar D, Bh G, Tripathi A, Chaudhari BP, Das M, Jain SK, Dwivedi PD. Phaseolin: a 47.5kDa protein of red kidney bean (*Phaseolus vulgaris* L.) plays a pivotal role in hypersensitivity induction. *Int Immunopharmacol*. 2014 Mar;19(1):178-90. doi: 10.1016/j.intimp.2014.01.014. Epub 2014 Jan 24. PubMed PMID: 24468678.
- Tiwari SK, Agarwal S, Seth B, Yadav A, Nair S, Bhatnagar P, Karmakar M, Kumari M, Chauhan LK, Patel DK, Srivastava V, Singh D, Gupta SK, Tripathi A, Chaturvedi RK, Gupta KC. Curcumin-loaded nanoparticles potently induce adult neurogenesis and reverse cognitive deficits in Alzheimer's disease model via canonical Wnt/ $\beta$ -

catenin pathway. ACS Nano. 2014 Jan 28;8(1):76-103. doi: 10.1021/nn405077y. Epub 2013 Dec 10. PubMed PMID: 24467380.

- Roy R, Parashar V, Chauhan LK, Shanker R, Das M, **Tripathi A\***, Dwivedi PD. Mechanism of uptake of ZnO nanoparticles and inflammatory responses in macrophages require PI3K mediated MAPKs signaling. Toxicol In Vitro. 2014 Apr;28(3):457-67. doi: 10.1016/j.tiv.2013.12.004. Epub 2013 Dec 22. PubMed PMID: 24368203.
- Roy R, Kumar S, Tripathi A, Das M, Dwivedi PD. Interactive threats of nanoparticles to the biological system. Immunol Lett. 2014 March April;158(1-2):79-87. doi: 10.1016/j.imlet.2013.11.019. Epub 2013 Dec 4. Review. PubMed PMID: 24316409.
- Roy R, Kumar S, Verma AK, Sharma A, Chaudhari BP, Tripathi A, Das M, Dwivedi PD. Zinc oxide nanoparticles provide an adjuvant effect to ovalbumin via a Th2 response in Balb/c mice. Int Immunol. 2014 Mar;26(3):159-72. doi: 10.1093/intimm/dxt053. Epub 2013 Nov 13. PubMed PMID: 24225181.
- Kumar S, Verma AK, Sharma A, Kumar D, Tripathi A, Chaudhari BP, Das M, Jain SK, Dwivedi PD. Phytohemagglutinins augment red kidney bean (*Phaseolus vulgaris* L.) induced allergic manifestations. J Proteomics. 2013 Nov 20;93:50-64.
- Kumar S, Dwivedi PD, Das M, **Tripathi A\***. Macrophages in food allergy: An enigma. Mol Immunol. 2013 Jul 31;56(4):612-618.
- Yadav A, Kumar A, **Tripathi A\***, Das M. Sunset yellow FCF, a permitted food dye, alters functional responses of splenocytes at non-cytotoxic dose. Toxicol Lett. 2013 Mar 13;217(3):197-204.
- Verma AK, Kumar S, Tripathi A, Chaudhari BP, Das M, Dwivedi PD. Chickpea (*Cicer arietinum*) proteins induce allergic responses in nasobronchial allergic patients and BALB/c mice. Toxicol Lett. 2012 Apr 5;210(1):24-33.
- Yadav A, Kumar A, Dwivedi PD, **Tripathi A\***, Das M. *In vitro* studies on immunotoxic potential of Orange II in splenocytes. Toxicol Lett. 2012. 208(3):239-45.
- Kumar S, Mishra A, Verma A K, Roy R, Tripathi A, Ansari K M, Das M and Dwivedi P D. Bt Brinjal in India: A long way to go. GM Crops. 2011 Apr 1;2(2).
- Kumar S, Verma A K, Misra A, Tripathi A, Chaudhari B P, Prasad R, Jain S K, Das M, Dwivedi P D. Allergenic responses of red kidney bean (*Phaseolus vulgaris* cv chitra) polypeptides in BALB/c mice recognized by bronchial asthma and allergic rhinitis patients. Food Res. International. 2011 44(9):2868–2879.
- Misra A, Kumar R, Mishra V, Chaudhari BP, Tripathi A, Das M, Dwivedi PD. Partial characterization of red gram (*Cajanus cajan* L. Millsp) polypeptides recognized by patients exhibiting rhinitis and bronchial asthma. Food Chem Toxicol. 2010 Oct;48(10):2725-36. Epub 2010 Jul 3. PubMed PMID: 20600518.
- Das M, Ansari KM, **Tripathi A**, Dwivedi PD. Need for safety of nanoparticles used in food industry. J Biomed Nanotechnol. 2011 Feb;7(1):13-4. PubMed PMID: 21485778.
- Roy R, **Tripathi A\***, Das M, Dwivedi PD. Cytotoxicity and uptake of zinc oxide nanoparticles leading to enhanced inflammatory cytokines levels in murine

macrophages: comparison with bulk zinc oxide. J Biomed Nanotechnol. 2011 Feb;7(1):110-1. PubMed PMID: 21485828.

- Dwivedi PD, **Tripathi A\***, Ansari KM, Shanker R, Das M. Impact of nanoparticles on the immune system. J Biomed Nanotechnol. 2011 Feb;7(1):193-4. PubMed PMID: 21485866.

## Books Edited

- Skin cancer: Pathogenesis and Diagnosis. 2021. ISBN. 978-981-16-0363-1. Springer nature publication. Editors: Dwivedi, A., Tripathi, A., Ray, R.S., Singh, A.K. (Eds.)

## Book chapters

1. Bhupender Singh, Arun Karnwal, Anurag Tripathi and Atul Kumar Upadhyay. 2021. Food Allergens and Related Computational Biology Approaches: A Requisite for a Healthy Life. Bioinformatics for agriculture: High-throughput approaches Pg 145. Springer nature press. Editors: Atul Kumar Upadhyay, R. Sowdhamini, Virupaksh U. Patil.
2. Payal Mandal, Ankita Rai, Sakshi Mishra, Anurag Tripathi and Mukul Das. 2017. Mutagens in food. Mutagenicity: Assays and Applications, Pg 133-160. Elsevier press. Editors: Ashutosh Kumar, Vasily N. Dobrovolsky, Alok Dhawan, Rishi Shanker.
3. Vibha Shukla, Somya Asthana, Parul Gupta , Anurag Tripathi, Premendra D. Dwivedi and Mukul Das. 2017. Toxicity of naturally Occuring Anthraquinones. Advances in Molecular Toxicology. Vol. 11, pg 1-37. Elsevier press. Editors: James Fishbein and Jacqueline Heilman.
4. Asthana, S, Tripathi, A, Dwivedi PD, Kumar A and Das, M. 2017 Methylene-Cyclo-Propyl Glycine In Sapindaceae Family. Horticultural Sciences: Perspectives and Applications. Vol II, pg 281-294. Brillion Publishing (New York). Editor: K. V. Peter.