

Bio-data



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Academic Qualification: M.Sc, B.Ed, Ph.D

Research Area and Area of Interest : Immunology

Research Guidance: NIL

Awards : NIL

Projects : NIL

Publications :

1. Shelly, A., **Banerjee, C.**, Saurav, G.K., Ray, A., Rana, V.S., Raman, R., Mazumder, S. *Aeromonas hydrophila*-induced alterations in cytosolic calcium activate pro-apoptotic cPKC-MEK1/2-TNF α axis in infected headkidney macrophages of *Clarias gariepinus*. *Developmental and Comparative Immunology* (Elsevier), 76, 392-402 (2017).
2. Singh, R., **Banerjee, C.**, Ray, A., Raamani, P., Mazumder, S. Fluoride-induced headkidney macrophage cell apoptosis involves activation of the CaMKII γ -ERK 1/2-caspase-8 axis: the role of superoxide in initiating the apoptotic cascade. *Toxicology Research* (RSC Publishing), 5, 1477-1489 (2016).
3. Datta, D., Khatri, P., **Banerjee, C.**, Singh, A., Meena, R., Saha, D.R., Raman, R., Rajamani, P., Mitra, A., Mazumder, S. Calcium and superoxide-mediated pathways converge to induce nitric oxide-dependent apoptosis in *Mycobacterium fortuitum*-infected fish macrophages. *PLOS One*, 10.1371/journal.pone.0146554 (2016).
4. **Banerjee, C.**, Singh, A., Das, T. K., Raman, R., Srivastava, A., Mazumder, S. Ameliorating ER-stress attenuates *Aeromonas hydrophila*-induced mitochondrial dysfunctioning and caspase mediated HKM apoptosis in *Clarias batrachus*. *Scientific Reports* (Nature), 10: 1038/srep05820 (2014).
5. **Banerjee, C.**, Khatri, P., Raman, R., Bhatia, H., Datta, M., Mazumder, S. Role of calmodulin-calmodulin kinase II, cAMP/Protein Kinase A and ERK 1/2 on *Aeromonas hydrophila*-induced apoptosis of head kidney macrophages. *PLoS Pathogens* (PLoS), 10: e1004018 (2014).
6. **Banerjee, C.**, Singh, A., Raman, R. Mazumder, S. Calmodulin-CaMKII mediated alteration of oxidative stress: interplay of the cAMP/PKA-ERK 1/2-NF- κ B-NO axis on arsenic-induced head kidney macrophage apoptosis. *Toxicology Research* (Royal Society of Chemistry), 2, 413 (2013).
7. **Banerjee, C.**, Goswami, R., Verma, G., Datta, M., Mazumder, S. *Aeromonas hydrophila*-induced head kidney macrophage apoptosis in *Clarias batrachus* involves the activation of calpain and is caspase-3 mediated. *Developmental and Comparative Immunology* (Elsevier), 37, 323-333 (2012).
8. **Banerjee, C.**, Goswami, R., Datta, S., Rajagopal, R., Mazumder, S. Arsenic-induced alteration in intracellular calcium homeostasis induces head kidney macrophage apoptosis involving the activation of calpain-2 and ERK in *Clarias batrachus*. *Toxicology and Applied Pharmacology* (Elsevier), 256, 44-51 (2011)