

List of publications

1. **Gulshan Singh**, Poornima Vajpayee, Saurabh Bhatti, Nirmala Ronnie, Nimish Shah , Peter McClure and Rishi Shanker. Determination of viable *Salmonellae* from potable and natural source water through PMA assisted qPCR. **(2013)**, *Ecotoxicology & Environmental Safety*, 93(2013)121–127.
2. Anurag Jyoti, **Gulshan Singh**, Poornima Vajpayee and Rishi Shanker. Toxicity and Safety assessment of bio-contaminants: Molecular Beacon based detection of *Salmonellae* in street food. *Journal of Translational Toxicology* **(2014)** (accepted in press).
3. **Gulshan Singh**, Poornima Vajpayee, Neetika Rani, Anurag Jyoti, Kailash C Gupta, and Rishi Shanker. Bio-capture of *S. Typhimurium* from surface water by aptamer for Culture-free quantification. **(2012)**, *Ecotoxicology & Environmental Safety* 78.320–326.
4. *Anurag Jyoti, Poornima Vajpayee, **Gulshan Singh**, Chandra Bali Patel, Kailash Chand Gupta, and Rishi Shanker. Identification of Environmental Reservoirs of Nontyphoidal Salmonellosis: Aptamer-Assisted Bioconcentration and Subsequent Detection of *Salmonella Typhimurium* by Quantitative Polymerase Chain Reaction **(2011)** *Environmental Science & Technology*, 45.8996–9002.
5. ***Gulshan Singh**, Poornima Vajpayee, Siya Ram and Rishi Shanker (2010). Environmental Reservoirs for Enterotoxigenic *Escherichia coli* in South Asian Gangetic Riverine System **(2010)**. *Environmental Science & Technology*, 44, 6475–6480.
6. Anurag Jyoti, Siya Ram, Poornima Vajpayee, **Gulshan Singh**, Premendra D. Dwivedi, Swatantra K.Jain, Rishi Shanker. Contamination of surface and potable water in South Asia by *Salmonellae*: Culture-independent quantification with molecular beacon real-time PCR. **(2010)** *Science of Total Environment*. 408, 1256-63.
7. C B Patel, P Vajpayee, **G Singh**, A Jyoti, R S Upadhyay and R Shanker. Computation and in- Silico. Validation of a Real-Time PCR Array for Quantitative Detection of Fecal Coliforms in Surface and Potable Water. **(2011)** *International Journal of Biotechnology and Biosciences* 2,185-194.
8. Patel CB, Vajpayee P, **Singh G**, Upadhyay RS, Shanker R. Contamination of potable water by Enterotoxigenic *Escherichia coli*: qPCR based culture-free detection and quantification. **(2011)**, *Ecotoxicology & Environmental Safety* 74,2292-8.
9. **Gulshan Singh**, Poornima Vajpayee, Imrana Khatoon, Anurag Jyoti, Alok Dhawan, K. C. Gupta, and Rishi Shanker. Chromium Oxide Nano-Particles Induce Stress in Bacteria: Probing Cell Viability **(2011)**, *Journal of Biomedical Nanotechnology* 7, 166-167.

10. Poornima Vajpayee, Imrana Khatoon, Chandra Bali Patel, **Gulshan Singh**, Kailash Chand Gupta, and Rishi Shanker . Adverse Effects of Chromium Oxide Nano-Particles on Seed Germination and Growth in *Triticum aestivum* L. (2011) *Journal of Biomedical Nanotechnology*. 7, 205-206.
11. Imrana Khatoon, Poornima Vajpayee, **Gulshan Singh**, Alok K. Pandey, Alok Dhawan, K. C. Gupta, and Rishi Shanker. Determination of Internalization of Chromium Oxide Nano-Particles in *Escherichia coli* by Flow Cytometry. (2011)*Journal of Biomedical Nanotechnology*. 7, 168-169.
12. Sandeep Kumar, Akanksha Sharma, Neelabh, **Gulshan Singh**, Alok K. Verma, Ruchi Roy, Anurag Tripathi, Mukul Das, Rishi Shanker, Premendra D. Dwivedi. 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 (2014) 130–14.

Research Papers under Communication

- **Gulshan Singh**, Poornima Vajpayee and Rishi Shanker. Molecular Signatures of antimicrobial resistance in *Escherichia coli* retrieved from surface water of sewage impacted rivers of Indian subcontinent.
- **Gulshan Singh**, Poornima Vajpayee, Neetika Rani, and Rishi Shanker . Prevalence of environmental reservoirs of β -lactamase resistance in Indo-Gangetic region.
- **Gulshan Singh**, Poornima Vajpayee and Rishi Shanker. Development of quantitative PCR Array for Simultaneous Detection of water and food borne Pathogens and applicability in Propidium monoazide based viable qPCR.

Book Chapter

- Rishi Shanker, *Gulshan Singh*, Anurag Jyoti, P.Dhar Dwivedi and Surinder Pal Singh. Nanotechnology and Detection of Microbial Pathogens. *Animal Biotechnology: Models in Discovery and Translation*, American Press, Edited by; Ashish S Verma and Anchal Singh. ISBN: 978-0-12-416002-6 pages 525-539, 2014.