

List of Publications

Research Articles

1. **Sharma et al.**, “Flow Injection Based Aptasensing for Quantification of Tetracycline in Milk Matrix integrated on Microfluidic Quartz Crystal Nanobalance”. (Submitted to **Analytica Chimica Acta**, 2018).
2. **Sharma et al.**, “Synthesis and Pharmacological Evaluation of Tricyclic Carbazole Annulated with Substituted Benzothiazole-2-Amine under Microwave Irradiation”, **Biomedical Journal of Scientific and Technical Research**, 2018 9 (2), 1-9.
3. **Sharma et al.**, “Disposable and portable aptamer functionalized impedimetric sensor for detection of kanamycin in milk sample”, **Sensors and Actuators B: Chemical**, 2017, 245, 507-515.
4. **Sharma et al.**, “Development of structure signaling aptamer assay for detection of aflatoxin M1 in milk sample”, **Talanta**, 2016, 158, 35-41.
5. **Sharma et al.**, “Design of fluorescence aptaswitch based on the aptamer modulated nano-surface impact on the fluorescence particles”, **RSC Advances**, 2016, 6, 65579-65587.
6. K. Yugender Goud and **Atul Sharma et al.** “TAMRA Quenching Based Aptasensing Platform for Aflatoxin B1: Analytical performance comparison of two aptamers”, **Analytical Biochemistry**, 2016, 508, 19-24.
7. **Sharma et al.**, “Titanium Dioxide Nanoparticles (TiO₂) Quenching Based Aptasensing Platform: Application to Ochratoxin A Detection”, **Toxins**, 2015, 7, 3771- 3784.
8. **Sharma et al.**, “Ultrasensitive detection of Streptomycin using Flow Injection Analysis Electrochemical quartz crystal Nanobalance (FIA-EQCN) biosensor”, **Biosensors and Bioelectronics**, 2015, 67, 532-539.
9. Abdul M Ansari and **Atul Sharma et al.**, “Validation of a Statistically Optimized Stability Indicating Method for the Estimation of Febuxostat in a Solid Dosage Form”, **EC Pharmaceutical Science**, 2015, 1 (3), 133-147.
10. Geetesh K. Mishra, **Atul Sharma**, Kanchanmala Deshpande, Sunil Bhand “Flow Injection Analysis biosensor for urea analysis in urine using Enzyme Thermistor”, **Applied Biochemistry and Biotechnology**, 2014, 174 (3), 998-1009.

Review Articles

1. **Sharma et al.**, “Designed Strategies for Fluorescence-Based Biosensors for the Detection of Mycotoxins”, **Toxins**, 2018, 10 (5), 197.

2. **Sharma et al.**, “Transformation of Man into Stone-Rare and Dreadful Disease: Fibrodysplasia Ossificans Progressiva”, **EC Pharmacology and Toxicology**, **2018**, 6, 594-600.
3. **Sharma et al.**, “Recent Advances in Electrochemical Based Sensing Platforms for Aflatoxins Detection”, **Chemosensors**, **2017**, 7, 1-14.
4. **Sharma et al.**, “Recent Advances in Aptamer - Based Biosensors for Detection of Antibiotic Residues”, **Aptamers and Synthetic Antibodies**, **2016**, 2(2), 43-54.

Conference proceeding

1. Gaëlle Catanante, **Atul Sharma**, Akhtar Hayat, Jean Louis MARTY, “Aptasensors For Emerging Environmental Pollutants”, INCD ECOIND –International Symposium –Simi 2016 “The Environment And Industry”, PROCEEDINGS BOOK, **2016**, 18-26.

Conference presentation (Oral/ Poster)

1. “Molecularly imprinted polymer decorated nanoparticles for selective determination of Tetracycline in milk”, Atul Sharma and **Sunil Bhand** presented in 12th Workshop on Biosensors and Bioanalytical Microtechniques in Environmental and Clinical Analysis (INTERNATIONAL BIOSENSOR CONFERENCE), organized by National Research Council (CNR) with International Association on Environmental Analytical Chemistry (IAEAC) from 25-29th September, 2017, Italy-Rome (**Oral presentation**).
2. “Molecularly Imprinted Polymeric Nanoparticles for Selective Determination of Antibiotic Residue in Milk Sample”, **Atul Sharma** and Sunil Bhand, Poster presentation in ICONN 2017 (4th INTERNATIONAL CONFERENCE ON NANOSCIENCE AND NANOTECHNOLOGY, 9-11th August, 2017, SRM University, Chennai, INDIA) (**Poster No. 749**)
3. “A label-free, disposable and portable impedimetric aptasensor for determination of kanamycin in milk sample”, **Atul Sharma**, Sunil Bhand, **Jean Louis Marty**, **Oral presentation** in Matrafured 2017 (International Conference on Electrochemical Sensors) going to be held on 11-16 June, 2017, Budapest, Visegrad.
4. “Design of a nanomaterial based fluorescence aptaswitch using aptamer modulated nano-surface impact on the fluorescence particles”, **Atul Sharma**, Akhtar Hayat, Rupesh K. Mishra, Gaëlle Catanante, Sunil Bhand and Jean Louis Marty, presented in Symposium on Recent Advancements in Chemical Sciences and RSC Research Scholar Meet 2016, Goa, India organized by BITS Pilani- K K Birla Goa Campus, INDIA, 13th November, 2016 (**Oral presentation 2 and Poster No. 08**).
5. “Structure signaling aptasensing platform for detection of aflatoxin M1 in milk”, **Atul**

- Sharma**, Gaëlle Catanante, Akhtar Hayat, George Istamboulie, Sunil Bhand and Jean Louis Marty, presented in AMAN-2016 organized by BITS- Pilani K. K. Birla Goa Campus jointly with University of Leeds, UK from 11-12th January 2016 (**Poster No. 14**).
6. “Quenching based aptamer assay: A sensing platform for detection of target analyte”, **Atul Sharma**, Akhtar Hayat, Rupesh K. Mishra, Gaëlle Catanante, Sunil Bhand and Jean Louis Marty presented in TMSB 2015 organized by UPVD Perpignan, France from 1-2 October, 2015 (**Poster no 4**).
 7. “Aptamer assay: A nanomaterial based sensing platform for detection of target molecule”, **Atul Sharma**, Akhtar Hayat, Rupesh K. Mishra, Gaëlle Catanante, Sunil Bhand and Jean Louis Marty presented in BBMEC-11, organized by University of Regensburg, Germany from 26-30 September, 2015 (**Oral presentation no. 9 and Poster no P 53**).
 8. “OTA bio-sensing in real matrix using folding based electrochemical aptasensor”, Rupesh K. Mishra, **Atul Sharma**, Akhtar Hayat, Sunil Bhand, **Jean-Louis Marty**, presented in International Symposium in Electroanalytical Chemistry (ISEAC), Changchun, China, 13-16 August, 2015 (P-106). (Awarded among top twenty Best Poster Presentation).
 9. “Ultrasensitive detection of streptomycin using Flow injection analysis-Electrochemical quartz crystal nanobalance (FIA-EQCN), Geetesh K. Mishra, **Atul Sharma**, **Sunil Bhand**, Poster Presentation at 24th Anniversary World Congress on Biosensors, 27-30 May, 2014, Australia (BIOS2014_0153).
 10. “Flow Injection Analysis biosensor for urea analysis in urine using Enzyme Thermistor”, **Geetesh K. Mishra**, **Atul Sharma**, Sunil Bhand, India-Japan Workshop on “Biomolecular Electronics and Organic Nanotechnology for Environment Preservation” IJWBME 2013, 13-15 December 2013, DTU, Delhi, India (Poster No. PP. 70).