

❖ Name & Designation	: Ms. Hina, Research Scholar.
❖ Address	: Dept. of Microbiology, BMS Block, Panjab University, Chandigarh-160014.
❖ Name of the International Conference/ Seminar/Symposium/ Workshop	: International Conference on Microbiology & Bio Technology (ICMB)-2014.
❖ Title of the abstract accepted	: In-vitro and in-vivo synergistic activities of azithromycin and diprofloxacin against <i>Pseudomonas aeruginosa</i> biofilms.
❖ Date & Venue	: 11-12 <sup>th</sup> September 2014.
❖ Money sanctioned	: ₹ 76,725/-
❖ Money reimbursed	: ₹ 54,661/-

### Participation Report

#### Academic highlights of ICMB-2014 conference:

- Azithromycin-Ciprofloxacin combination therapy found to be promising against biofilm associated Urinary Tract Infections as it confers antibacterial, immunomodulatory and anti-inflammatory effects.
- Zingerone is a novel anti-virulent drug candidate targeting ligand-receptor interactions that silences quorum sensing and attenuates virulence of *Pseudomonas aeruginosa*
- Designing, fabrication and validation of a micro-machined Coulter counter device with multiple-channel for high throughput cells counting and sizing
- Grape seed extract and zinc containing multivitamin mineral nutritional food supplement protects heart against myocardial ischemic-reperfusion injury in wistar rats
- Sofinox is a novel agent which ameliorates IgE-mediated allergic conjunctivitis in wistar rats
- Flagellin 'b' is a potential prophylactic agent which down regulates inflammation and curbs Urinary Tract Infections by *Pseudomonas aeruginosa*
- A novel technique demonstrating that use of graphene oxide enhances the signal output of silicone microring optical biosensor employed in early detection of pathogenic bacteria in blood
- In-situ biodegradation of endosulfan, imidacloprid, and carbendazim using indigenous bacterial cultures of agriculture fields of Uttarakhand, India

### **Participant's contribution to ICMB-2014:**

It was a lifetime opportunity for me to present my research work as a representative of India amongst international audience consisting of eminent professors, lecturers, scientists, fellow researchers and so on. My research area focuses on treatment of persistent urinary tract infections, specifically associated with biofilm formation by bacteria. The agents used in the study, Azithromycin and Ciprofloxacin aided in effective inhibition and eradication of *Pseudomonas aeruginosa* biofilms in-vitro and in mouse model of acute pyelonephritis. The presentation was well heard followed by a healthy discussion and the research work was appreciated.