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Doctor of Philosophy in  
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### Food Safety and Antibiotic Resistance

#### Research emphasis:

Dr. Thakur research focuses on studying the molecular epidemiology of multi-drug resistant bacterial pathogen and is centered on two predominant themes. The first revolves around understanding the phenotypic and genotypic similarity and/or diversity of AMR bacterial strains reported in animals, humans and their environment. The second theme is focused on using phylogenetics to study the evolution of AMR bacterial strains at the population level.

#### Application :

- AMR Mechanisms
- AMR Surveillance
- Drug Discovery

#### Collaboration potential:

- AMR & Food Safety
- Zoonotic infections
- Global Health
- Drug discovery

#### Selected publications:

Keelara S. and **Thakur S. (2014)**. Dissemination of plasmid-encoded AmpC  $\beta$ -lactamases in antimicrobial resistant *Salmonella* serotypes originating from humans, pigs and environment. ***Veterinary Microbiology***. 173 (1-2): 76-83.

Keelara S , Scott HSM , Morrow WM , Hartley C, Denise Griffin, Gebreyes WA, **Thakur S. (2014)**. Comparative phenotypic and genotypic characterization of temporally and spatially related non-typhoidal *Salmonella* isolated from human clinical cases, pigs and the environment. ***Foodborne Pathogens and Disease***. 11(2)-156-164.

Keelara S , Scott HSM , Morrow WM , Gebreyes WA , Correa M , Nayak R , Stefanova R, **Thakur S. (2013)**. Longitudinal study comparing the distribution of phenotypic and genotypic similar antimicrobial resistant *Salmonella* serovars between pigs and their environment in two distinct swine production systems. ***Applied Environmental Microbiology***. 79 (14) 5167-5178.

**Thakur S**, Brake J, Keelara S, Zou M, and Susick E. (2013). Co-occurrence and Environmental Distribution of *Campylobacter* and *Salmonella* in Broiler Flocks. ***Research in Veterinary Science***. 94:33-42.