

Curriculum vitae RABAAB ZAHRA

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Positions

Aug 2015-Present	Associate Professor , Department of Microbiology, Quaid-i-Azam University, Pakistan
2011-Aug 2015	Assistant Professor , Department of Microbiology, Quaid-i-Azam University, Pakistan
July 2009-Dec 2010	Postdoctoral Fellow , Department of Paediatrics, University of California, San Diego, USA
July 2007-June 2009	Postdoctoral Fellow , Department of Laboratory Medicine, University of Washington, Seattle, USA

Research

My research focuses on epidemiology and dissemination of antibiotic resistance in clinical and non-clinical settings and its impact upon infection outcomes in Pakistan. In particular, we study the impact of the resistant bacteria in neonatal infections and focus on links between hospital and community acquired infections. I am also very much interested in studying the reservoirs of these resistant bacteria in non-clinical environments to understand the role of environment in dissemination of resistance.

Projects

2014-2017	Autophagy mediated cytotoxicity and antibiotic resistance of <i>Staphylococcus aureus</i> , role of accessory gene regulatory (<i>agr</i>) system” Higher Education Commission, Pakistan (PI)
2015-2018	Burden of Antibiotic Resistance in Neonates from Developing Societies (BARNARDS)” As part of the BARNARDS Network. Bill and Melinda Gates Foundation (PI-Islamabad)
2016-2017	Sequence Types of <i>E. coli</i> in Environment. Commonwealth Academic Staff Fellowship, Cardiff University, United Kingdom
2016-2018	BARNARDS – Community Project. As part of the BARNARDS Network. Bill and Melinda Gates Foundation (PI-Islamabad)
2017-2020	Genomic Comparison of community and hospital acquired carbapenemase-producing Enterobacteriaceae (CPE) in Pakistan, and influence of the intestinal microbiota. Pak-France Joint HEC PERIDOT Research Program 2017 (PI – Pakistan)

Publications

27 peer-reviewed articles, 277 citations, H-index 9 (Google Scholar)

Five selected publications

1. **Zahra, R.**, Javeed, S., Bibi, M., Babenko, D., Toleman, M. (2018) Analysis of *Escherichia coli* STs and resistance mechanisms in sewage from Islamabad, Pakistan indicates a difference in *E. coli* carriage types between South Asia and Europe. ***Journal of Antimicrobial Chemotherapy*** doi: 10.1093/jac/dky109
2. Nahid, F., **Zahra, R.**, Sandergren, L. (2017) A blaOXA-181-harboring multi-resistant ST147 *Klebsiella pneumoniae* isolate from Pakistan that represent an intermediate stage towards pan-drug resistance. ***PLoS One*** 12(12), doi: 10.1371/journal.pone.0189438
3. Kumar, N., Nahid, F., **Zahra, R.** (2017) Association of virulence factors, phylogenetic groups and antimicrobial resistance markers in *Escherichia coli* from Badin city, Pakistan. ***Journal of Chemotherapy*** 29 (1): 8-13
4. Qamar, M. U., Nahid, F., Walsh, T. R., Kamran, R., **Zahra, R.** (2015) Prevalence and clinical burden of NDM-1 positive infections in pediatric and neonatal patients in Pakistan. ***The Pediatric Infectious Disease Journal*** 34(4): 452-4
5. Hasan, B., Perveen, K., Olsen, B. and **Zahra, R.** (2014) Emergence of carbapenem-resistant *Acinetobacter baumannii* in hospitals in Pakistan. ***J Med Microbiol*** 63: 50-55