

## ***CURRICULUM VITAE***

**1. Name** Yasra Sarwar  
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### **ACADEMIC RECORD**

<b>Certificate / Degree</b>	<b>Year of Passing</b>	<b>Major Group / Subjects</b>	<b>Division / Grade %</b>	<b>Board / University</b>
Ph. D. (Thesis submitted)	---	Biotechnology•	---	NIBGE, Faisalabad /QAU, Islamabad
M.Phil	2003	Biotechnology*	1 <sup>st</sup> Div/ 89.7%	NIBGE, Faisalabad /QAU, Islamabad
Doctor of Veterinary Medicine (DVM)	2000	Veterinary Sciences	1 <sup>st</sup> Div/ 76.7 %	UAF, Faisalabad
F.Sc	1995	Pre-Medical	1 <sup>st</sup> Div/ 73%	Govt.College for Women, Madina Town, FSD.
Matric	1993	Science	1 <sup>st</sup> Div/ 86%	Sacred Heart High School, FSD.

\* M.Phil thesis entitled "Prevalence of *Vi* negative strains among Pakistani isolates of *Salmonella typhi*".

- Ph. D thesis entitled "Detection, molecular analysis and expressional studies of local *Vi* negative strains of *Salmonella typhi*".submitted

### **Distinctions/Honors**

**Merit Scholarship for Ph. D. Studies in Science & Technology (200 Scholarships)** by Higher Education Commission.

**Quaid-i-Azam Merit scholarship** in Doctor of Veterinary Medicine (DVM).

**Merit scholarship** in Secondary School Examination

**Best Poster Award** in FAOBMB Symposium on Genomic and Proteomics in Health and Agriculture, November 20-23, 2005 Lahore, Pakistan.

**Award of scholarship under International Research Support Initiative Programme (IRSIP)** for six month partial research abroad

### List of Publications:

#### International:

1. Stephen Baker, **Yasra Sarwar**, Hafsa Aziz, Asma Haque, Aamir Ali, Gordon Dougan, John Wain and Abdul Haque. 2005. The detection of *Vi* negative *Salmonella enterica* serovar Typhi in the peripheral blood of typhoid patients in the Faisalabad region of Pakistan. *J Clin Microbiol* . 43(9): 4418–4425. **IF: 3.5**
2. Haque, A., A. Haque, **Y. Sarwar**, and A. Ali. Multiplex PCR for drug resistance against standard antityphoid drugs in blood samples of typhoid patients. *FEBS Journal*, 273(2006) S74-75. **IF 3.5**
3. Mashkooor. M. , A. Hussain , M. A. Butt, S. Bashir , A. Tariq , S. Babar , A. Ali, A. Haque, **Y. Sarwar**, and A. Haque. 2007. Prevalence of Shiga Toxin-Producing *Escherichia coli* in diarrheal patients in Faisalabad region of Pakistan as determined by multiplex PCR. *J Infect Developing Countries*, 1(2): 164-169.

#### National :

1. Samina Bashir, Abdul Haque, Nasir Ahmad, Abida Raza, Asma Haque, **Yasra Sarwar**, Aamir Ali, Saira Bashir, Mashkooor Mohsin, Ishtiaq Ahmad and Janbaz Ahmad. 2005. Significant incidence of typhoid in Hepatitis C patients. *The Professional Medical Journal*. 12(3):287-294.
2. Asma Haque, Abdul Haque, **Yasra Sarwar**, Aamir Ali, Saira Bashir, Ayesha Tariq and Mashkooor Mohsin. 2005. Identification of drug resistance genes in clinical isolates of *Salmonella typhi* for development of diagnostic multiplex PCR. *Pak J Med Sci*. 21(4): 402-407.
3. Mehwish Jamil, Saira Bashir, Mashkooor Mohsin, Ayesha Tariq, Aasia Bashir, Asma Haque, **Yasra Sarwar** , Aamir Ali, and Abdul Haque. 2007. Differentiation of common gram negative pathogens by PCR-ribotyping. *Pak J Med Sci*. 23(2):1-5.

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#### Presentations& Abstracts:

1. Relative efficacy of PCR methods for the diagnosis of Typhoid. **Yasra Sarwar**, Hafsa Aziz, Abida Raza, Dr. J. A. Qureshi, & Dr. Abdul Haque. 7<sup>th</sup> biennial Conference of Pakistan Society for Biochemistry and Molecular Biology. 2-5 April, 2003. (Paper accepted for poster presentation)
2. Role of biofilm production in drug resistance. Abida Raza, **Yasra Sarwar**, Hafsa Aziz, Dr. J. A. Qureshi, & Dr. Abdul Haque. 7<sup>th</sup> biennial Conference of Pakistan Society for Biochemistry and Molecular Biology. 2-5 April, 2003.

3. Research Seminar at NIBGE: “Prevalence of *Vi* negative strains among Pakistani isolates of *Salmonella typhi*”.
4. Emergence of *Vi* negative strains of *Salmonella typhi*: a need to review typhoid vaccines. **Yasra Sarwar**, Asma Haque, Aamir Ali, Saira Bashir and Abdul Haque. 15<sup>th</sup> National & 5<sup>th</sup> International Chemistry Conference, Nov 24-27, 2004. Quaid-i-Azam University, Islamabad.
5. Molecular detection of *Salmonella typhi* strains and their drug resistance pattern. Asma Haque, Abdul Haque, **Yasra Sarwar** and Aamir Ali. Presented at 15<sup>th</sup> National & 5<sup>th</sup> International Chemistry Conference held at Quaid-i-Azam University, Islamabad. Nov 24-27, 2004.
6. Development of a multiplex PCR for detection of *Salmonella typhi* and related pathogens. Aamir Ali, Abdul Haque, Asma Haque and **Yasra Sarwar**. Presented at 15<sup>th</sup> National & 5<sup>th</sup> International Chemistry Conference held at Quaid-i-Azam University, Islamabad. Nov 24-27, 2004.
7. Research Seminar at NIBGE: “The detection of *Vi* negative *Salmonella enterica* serovar Typhi in the peripheral blood of typhoid patients in the Faisalabad region of Pakistan”. 30<sup>th</sup> Aug, 2005, Old Auditorium, NIBGE.
8. Genetic study of drug resistance patterns of locally isolated *Vi* positive and *Vi* negative strains of *Salmonella typhi*. **Yasra Sarwar**, Asma Haque, Abdul Haque, Aamir Ali, Saira Bashir, Ayesha Tariq, Mahwish Jamil, Aasia Bashir and Mashkoor Mohsin. Poster Presentation at FAOBMB Symposium on Genomic and Proteomics in Health and Agriculture, November 20-23, 2005 Lahore, Pakistan. p: 138
9. Molecular diagnosis of clinical isolates of MDR *Salmonella enterica* serovar Typhi. Asma Haque, **Yasra Sarwar**, Aamir Ali, Saira Bashir, Ayesha Tariq, Mashkoor Mohsin, Mahwish Jamil, Aasia Bashir and Abdul Haque. FAOBMB Symposium on Genomic and Proteomics in Health and Agriculture, November 20-23, 2005 Lahore, Pakistan. p: 142-143.
10. Identification of integrons and drug resistance genes in clinical isolates of extraintestinal *Escherichia coli*. Saira Bashir, Asma Haque, **Yasra Sarwar**, Aamir Ali, Ayesha Tariq, Mashkoor Mohsin, Mahwish Jamil, Aasia Bashir and Abdul Haque. FAOBMB Symposium on Genomic and Proteomics in Health and Agriculture, November 20-23, 2005 Lahore, Pakistan. p: 73.
11. Emergence of *Vi* negative strains of *S. typhi* and their importance in vaccine development. Abdul Haque and **Yasra Sarwar**. FAOBMB Symposium on Genomic and Proteomics in Health and Agriculture, November 20-23, 2005 Lahore, Pakistan. p: 70-71.

12. Molecular detection of *Salmonella enterica* serovar Typhi strains and determination of their drug resistance pattern. Asma Haque, **Yasra sarwar**, Aamir Ali, Saira Bashir, Ayesha Tariq, Mashkoor Mohsin and Abdul Haque. Poster presentation at National Symposium on Biotechnology for Economic Prosperity 24-26 July 2006, Nathiagali, Pakistan.
13. Epidemiology of Shiga Toxin Producing *Escherichia coli* in Pakistan as determined by Multiplex Polymerase Chain Reaction. Mashkoor Mohsin, Asma Haque, **Yasra Sarwar**, Aamir Ali, Saira Bashir, Ayesha Tariq and Abdul Haque. Poster presentation at National Symposium on Biotechnology for Economic Prosperity 24-26 July 2006, Nathiagali, Pakistan.
14. Emergence of Vi negative strains of Salmonella typhi: A need to review typhoid vaccines. **Yasra Sarwar**, Aamir Ali, Asma Haque, Saira Bashir, Ayesha Tariq, Mashkoor Mohsin and Abdul Haque. Oral presentation at National Symposium on Biotechnology for Economic Prosperity 24-26 July 2006, Nathiagali, Pakistan.
15. Relationship of phylogenecity and antibiotic susceptibility in the clinical isolates of uropathogenic *Escherichia coli*. Saira Bashir, **Yasra Sarwar**, Aamir Ali, Asma Haque, Ayesha Tariq, Mashkoor Mohsin and Abdul Haque. Poster presentation at National Symposium on Biotechnology for Economic Prosperity 24-26 July 2006, Nathiagali, Pakistan.
16. Purification and Characterization of Polysaccharide Antigens from *Salmonella* Species for Future Use in Conjugate Vaccine. Aamir Ali, Asma Haque, Abdul Haque and Yasra Sarwar. Poster presentation at Global Vaccine Research Forum and Parallel Satellite Symposia, 3 – 6 Dec, 2006, Bangkok, Thailand.

**Symposium attended:**

- **33<sup>rd</sup> All Pakistan Science Conference.** University of Agriculture, Faisalabad. 25-28 Dec. 2002
- **Ist Health Biotechnology Conference,** Jan 27-28, 2005, University of Health Sciences, Lahore.
- Participated in “**National Workshop on Molecular Detection and Genotyping of HBV/HCV and Quality Assurance Issues**”, December 20-24, 2004 Held in Health Biotechnology Division, National Institute for Biotechnology and Genetic Engineering, Faisalabad, Pakistan as **Faculty member and Organizer.**
- **National Symposium on Biotechnology for Economic Prosperity.** 24-26 July 2006, Nathiagali, Pakistan.

**Trainings:**

- 31<sup>st</sup> Post-Graduate Training Course on “**Nuclear and other Advanced Techniques in Agricultural and Biological research**”. Held at Nuclear Institute of Agriculture and Biology (NIAB), Oct 12-24, 2003.
- Workshop on “**Identification, isolation and storage of microorganism**”. April 2-4, 2004. Microbiology Research Labs. Quaid-i-Azam University, Islamabad.