

Dr. Shahid Manzoor



Shahid Manzoor, PhD
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Qualification:

1. **PhD in Bioinformatics** (2010-2014) (Swedish University of Agricultural Sciences, Uppsala, Sweden). (Manzoor, Shahid (2014). Computational and comparative investigations of syntrophic acetate-oxidising bacteria (SAOB). Diss. (sammanfattning/summary) Uppsala : Sveriges lantbruksuniv., Acta Universitatis agriculturae Sueciae, 1652-6880 ; 2014:56 ISBN 978-91-576-8060-0 , eISBN 978-91-576-8061-7).
2. **MS in Bioinformatics** (2009-2010) (Swedish University of Agricultural Sciences, Uppsala, Sweden) (Thesis title: Bioinformatics assembly annotation and analysis of the *Bacillus amyloliquefaciens* strain 5036 genome, Uppsala 2010).
3. **M.Sc. in Computer Science** (1997-2001) (University of Agriculture Faisalabad, Pakistan) (CGPA 3.68).
4. **B.Sc. (Hons) Agri. in Plant Breeding & Genetics** (1997) (University of Agriculture Faisalabad, Pakistan) (CGPA: 3.38 Marks: 72%).
5. **F.Sc. Pre-Premedical** (1992) (Bahawalpur Board, Pakistan) (Marks: 70%)
6. **Matriculation with Science** (1989) Govt. Pilot Secondary High School (Multan Board, Pakistan) (Marks: 70%).

Areas of special interests in Research:

- NGS Data (Assembly, Annotation, Metabolic Pathways Analysis).
- Computational Biology.

- Comparative Genomics.
- R programming.
- Transcriptomics/Proteomics.
- Biological Databases.

Teaching Profile at graduation and post graduation levels:

- Introduction to Bioinformatics.
- Database Design & Management.
- Database Administration.
- Distributed Database Systems.
- Object Oriented Programming.
- Management Information System.
- Introduction to Information Technology.

Teaching & Management Experience:

1. I have taught Bioinformatics course to MS program students for four years (2010 to 2014) as a part of my PhD studies at Swedish University of Agricultural Sciences, Uppsala Sweden.
2. I have been working as Faculty Member in the Department of Information Technology, University of the Punjab, Gujranwala Campus from July 2005 to to-date.
3. I have served as Incharge, Department of Information Technology, University of the Punjab Gujranwala Campus for three years from 2006 to 2009.
4. I have served as a Project Coordinator in the Department of Information Technology, University of the Punjab, Gujranwala Campus for three years and during this period I supervised more than 15 projects and thesis of the undergraduate and graduate students.
5. I have served as Faculty Member in Punjab University of College of Information Technology, University of the Punjab, Lahore, Pakistan for two years (2003 to 2005).

International Conferences/Workshops attended:

1. Workshop – Analyzing thousands of bacterial genomes: gene annotation, metabolism and regulation, June 22 - 25, 2014, Marseille, France.
2. Next Generation Sequencing (NGS) methods for identification of mutations and large structural variants. March 11 – 12, 2014, Lausanne, Switzerland.

3. Workshop – Metagenomic data analysis, June 10 – 12, 2014, SciLifeLab, Stockholm, Sweden.
4. Workshop – RNA-seq / Proteomics August 24 – 26, 2014, SciLifeLab, Uppsala, Sweden.
5. COST Workshop: High Throughput Omics and Data Integration. February 13-15, 2013 Barcelona, Spain.
6. SeqAhead Conference "The next NGS Challenge: Data Processing and Integration. May 15-16, 2013, Valencia, Spain.
7. 8th International Symposium on Anaerobic Microbiology (ISAM8), June 12- 15, 2013, Innsbruck, Austria.
8. Workshop – Phenotype Prediction using Genomic Data, August 19th, 2013, UF Cancer & Genetics Research Complex, University of Florida, Gainesville, FL. USA.
9. Bioinformatics test case solution workshop / hackathon, October 7 - 8, 2013, Uppsala, Sweden.
10. CRU metabolism symposium: Metabolism and reproduction in humans and animals” in the Centre for Reproductive Biology, April 17, 2012 Uppsala, Sweden.
11. Next Generation Sequencing: What's Next? June 01, 2012, Uppsala, Sweden.
12. Bioinformatics Workshop "Evaluation of Test Cases" 12 - 14 December 2012 Milan, Italy.

Publications:

1. Niazi, A., **Manzoor, S.**, Bejai, S., Meijer, J., & Bongcam-Rudloff, E. (2014). Complete genome sequence of a plant associated bacterium *Bacillus amyloliquefaciens* strain UCMB5033. *Standards In Genomic Sciences*, 9(3). Doi: 10.4056/doiSIGS.4758653
2. **Manzoor S**, Bongcam-Rudloff E, Schnürer A, Müller B. 2013. Tepidanaerobacter acetatoydans strain Re1: The first genome sequence of a syntrophic acetate oxidizing bacteria. *Genome Announc.* 1:e00213-12.
3. **Manzoor S**, Müller B, Bongcam-Rudloff E, Schnürer A. Draft genome sequence of *Clostridium ultunense* strain Esp, a Syntrophic Acetate Oxidizing bacterium. *Genome Announc.* 1: e00107-13.

4. **Manzoor S**, Niazi A, Bejai S, Meijer J, Bongcam-Rudloff E. 2013 Genome Sequence of a Plant-Associated Bacterium, *Bacillus amyloliquefaciens* Strain UCMB5036 *Genome Announc.*1: e00111-13.
5. Niazi A, **Manzoor S**, Asari S, Bejai S, Meijer J, et al. (2014) Genome Analysis of *Bacillus amyloliquefaciens* Subsp. *plantarum* UCMB5113: A Rhizobacterium That Improves Plant Growth and Stress Management. *PLoS ONE* 9(8): e104651. doi:10.1371/journal.pone.0104651.
6. Johansson AH, Bejai S, Niazi A, **Manzoor S**, Bongcam-Rudloff E, Meijer J. Studies of plant colonisation by closely related *Bacillus amyloliquefaciens* biocontrol agents using strain specific quantitative PCR assays. *Antonie Van Leeuwenhoek*. 2014 Dec;106(6):1247-57. doi: 10.1007/s10482-014-0295-0. Epub 2014 Oct 8. PMID:25294724.
7. Müller B., **Manzoor S.**, Niazi A., Bongcam-Rudloff E., Schnürer A. Genome-guided analysis of physiological capacities of *Tepidanaerobacter acetatoxydans* provides insights into environmental adaptations and syntrophic acetate oxidation. *PLoS One*. 2015 Mar 26;10(3):e0121237. doi: 10.1371/journal.pone.0121237. eCollection 2015.
8. **Manzoor S.**, Müller B., Niazi A., Schnürer A., Bongcam-Rudloff E. (2014) Working draft genome sequence of the mesophilic acetate oxidizing bacterium. *Syntrophaceticus schinkii* strain Sp3. *Standards In Genomic Sciences*. (Submitted).
9. Mushtaq M., **Manzoor S.**, Pringle M., & Rosander A. (2014) Draft genome sequence of *Treponema phagedenis* strain V1, isolated from bovine digital dermatitis. *Standards In Genomic Sciences*. (Submitted).
10. **Manzoor S.**, Müller B., Niazi A., Schnürer A., Bongcam-Rudloff E. The syntrophic acetate oxidizing bacterium *Syntrophaceticus schinkii* strain Sp3-A genome scale analysis. *PLOS ONE* (Submitted)
11. Niazi A, Asari S, Bejai S, Muqbool K, **Manzoor S**, Meijer J, et al. (2015) Comparative genomics of *Bacillus amyloliquefaciens* species highlights potential determinants of plant association and interaction. *Environmental Microbiology*. (Submitted)
12. Conference Proceeding: Ion Torrent Sequencing and pipeline assembly of the first genome sequence of a mesophilic Syntrophic Acetate Oxidizing Bacterium (SAOB) **Shahid Manzoor**, Erik Bongcam Rudloff, Anna Schnürer, Bettina Müller.

13. Conference Proceeding: Genome sequence of plant associated rhizobacterium *Bacillus amyloliquefaciens* strain UCMB5033: Adnan Niazi, **Shahid Manzoor**, Sarosh Bejai, Johan Meijer, Erik Bongcam-Rudloff

Supportive Trainings:

1. RNA-Seq advanced data analysis course, NBIC (Netherlands bioinformatics center), Oct. 30 to Nov. 01, 2013, Leiden, Netherland
2. Annotation and analysis of prokaryotic Genomes using the microscope platform , September 12 - 18, 2011, Saclay, France.
3. Next Generation Sequencing, March 1 - 8, 2012, Enafors, Sweden.
4. An Introduction to New Generation Sequencing with Focus on Applications in Genomics and Metagenomics, March 8 - 10, 2010, Uppsala, Sweden.
5. Applied statistics with R for the agricultural, life and veterinary sciences, August 12 - 18, 2011, Jelgava, Latvia.
6. IBM Certification Java Professional, April 3 – 10, 2001, IBM ACE, Islamabad, Paksitan.
7. Oracle Certified Associate (OCA), July 12 – 16, 2006, OraTech Lahore, Pakistan
8. Oracle Certified Professional (OCP), July 23 – 27, 2006, OraTech Lahore, Pakistan
9. Oracle Certified Master (OCM), October 4 – 8, 2006, OraTech Lahore, Pakistan.
10. RedHat Linux System Administration, May 9 -15 2006, OraTech Lahore, Pakistan.
11. APPS-DBA (Oracle Financial Administration), November 4 – 9, 2006, OraTech Lahore, Pakistan.

References:

- 1. Dr. Erik Bongcam-Rudloff**
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