

1. **Name of the Employee:** Dr. Ashwini Kumar Dubey
2. **Email ID:** akdubey@nib.gov.in
3. **Designation:** Scientist Grade – III
4. **Division/LAB:** Biochemical Kit Laboratory
5. **Educational Qualification:** MSc (Biochemistry), PhD
(Biochemistry & Molecular Biology)



Awards/Fellowships:

2017 Elsevier Reviewer Recognition Award (*Int. J. Biological Macromolecules*)

2016 DST-SERB-National Post-Doctoral Fellowship (Life Sciences) – Not Availed.

2014 CSIR-UGC-NET-Lectureship (Life Sciences) – AIR29.

2013 ICAR-NET Lectureship (Animal Biochemistry)

2010 ICMR-Junior Research Fellowship (Life Sciences)

6. **Year of Joining:** 2016
7. **Professional Experience:** A total of 4½ Years (in QC testing of Biochemical Kits).

Successfully planning, coordinating and QC testing of over 550 batches of products, i.e., Fully Automated Analyzer Based Glucose Reagents, Blood Glucose Test Strips & Glucometer Devices, in the Biochemical Kit Laboratory and reporting the same to the satisfaction of the stake-holders.

8. Major Publications:

Journal Articles:

- (i) **Ashwini Kumar Dubey** and Kadirvelu Jeevaratnam (2018). Purification and Characterization of an antimicrobial peptide (Bacteriocin) Produced by *Weissella confusa* AJ79. *IOSR – Journal of Pharmacy and Biological Sciences*, 13(2, VIII): 17-24.
- (ii) **Ashwini Kumar Dubey** and Kadirvelu Jeevaratnam (2015). Structural characterization and functional evaluation of exopolysaccharide produced by *Weissella confusa* AJ53, an isolate from Uttapam batter fermented supplementing with Piper betle L. leaves. *Food science and Biotechnology*, 24(6): 2117-2124.
- (iii) **Ashwini Kumar Dubey** and Kadirvelu Jeevaratnam (2015). Probiotic screening of lactobacilli isolates from Uttapam batter fermented supplementing with *Piper betle* L. leaves. *Advances in Microbiology*, 5: 858-870.

- (iv) **Ashwini Kumar Dubey** and Kadirvelu Jeevaratnam (2015). Identification of *Lactobacillus pentosus* and *Weissella confusa* isolated from Uttapam batter fermented with Piper betle leaves. *Malaya Journal of Biosciences*, 2(1):13-25.

Articles in periodicals/magazines:

- (v) **Ashwini Kumar Dubey** and Yogesh Kumar (2018). Bacteriocins: Antimicrobial peptides from bacterial origin. *Dream* 2047, 20(10):11-12.
- (vi) **Ashwini Kumar Dubey** (2017). Extremely Drug Resistant Tuberculosis. *Dream* 2047, 19 (7):7- 9.
- (vii) **Ashwini Kumar Dubey** and Sivaiah Budala (2016). Probiotic bacteria: Friendly microorganisms. *Dream* 2047, 19(1):3-4.
- (viii) Yogesh Kumar and **Ashwini Kumar Dubey** (2015). Ebola Virus Disease: A Natural Disaster. *Dream* 2047, 17(4):25-26.

List of gene sequences submitted to NCBI GenBank:

S. No.	Accession Number	Details	Web URL
1	JX683265	<i>Lactobacillus pentosus</i> strain AJ7 16S ribosomal RNA gene, partial sequence	https://www.ncbi.nlm.nih.gov/nuccore/JX683265.1/?report=fasta
2	JX683266	<i>Lactobacillus pentosus</i> strain AJ9 16S ribosomal RNA gene, partial sequence	https://www.ncbi.nlm.nih.gov/nuccore/JX683266.1/?report=fasta
3	JX683267	<i>Lactobacillus pentosus</i> strain AJ15 16S ribosomal RNA gene, partial sequence	https://www.ncbi.nlm.nih.gov/nuccore/JX683267.1/?report=fasta
4	JX683268	<i>Weissella confusa</i> strain AJ67 16S ribosomal RNA gene, partial sequence	https://www.ncbi.nlm.nih.gov/nuccore/JX683268.1/?report=fasta
5	JX683269	<i>Weissella confusa</i> strain AJ79 16S ribosomal RNA gene, partial sequence	https://www.ncbi.nlm.nih.gov/nuccore/JX683269.1/?report=fasta
6	JX683270	<i>Lactobacillus pentosus</i> strain AJ82 16S ribosomal RNA gene, partial sequence	https://www.ncbi.nlm.nih.gov/nuccore/JX683270.1/?report=fasta
7	JX683271	<i>Lactobacillus pentosus</i> strain AJ94 16S ribosomal RNA gene, partial sequence	https://www.ncbi.nlm.nih.gov/nuccore/JX683271.1/?report=fasta
8	JX683272	<i>Lactobacillus pentosus</i> strain AJ99 16S ribosomal RNA gene, partial sequence	https://www.ncbi.nlm.nih.gov/nuccore/JX683272.1/?report=fasta
9	JX683273	<i>Lactobacillus pentosus</i> strain AJ112 16S ribosomal RNA gene, partial sequence	https://www.ncbi.nlm.nih.gov/nuccore/JX683273.1/?report=fasta

S. No.	Accession Number	Details	Web URL
10	JX683274	<i>Lactobacillus pentosus</i> strain AJ116 16S ribosomal RNA gene, partial sequence	https://www.ncbi.nlm.nih.gov/nuccore/JX683274.1/?report=fasta
11	KC533685	<i>Weissella confusa</i> strain AJ53 16S ribosomal RNA gene, partial sequence	https://www.ncbi.nlm.nih.gov/nuccore/KC533685.1/?report=fasta
12	KC533686	<i>Lactobacillus pentosus</i> strain AJ125 16S ribosomal RNA gene, partial sequence	https://www.ncbi.nlm.nih.gov/nuccore/KC533686.1/?report=fasta

List of Presentations in Seminars/Conferences/Symposia in connection with the research work:

- 2018 Oral Presentation on topic '**In vitro probiotic screening and ex vivo immunomodulation activity of lactobacilli isolates from uttapam batter fermented with *Piper betle* L. Leaves**'. Golden Jubilee Celebration, Alumni Meet & Conference on 'Expanding Horizons of Biochemistry', at University of Allahabad, India (December 01, 2018).
- 2016 Oral Presentation on topic '**Purification and characterization of an antibacterial peptide produced by *Weissella confusa* AJ79**'. National Seminar on 'drug discovery and cancer therapy (DDCT-2016)' organized at Pondicherry University, Puducherry, India (February 25-26, 2016).
- 2014 Oral Presentation on topic '**In vitro evaluation of Lactobacilli for probiotic properties**'. National seminar on 'emerging trends in Biochemistry and Molecular Biology' at Pondicherry University, Puducherry, India (March 17, 2014)
- 2013 Poster presentation on topic '**Structural characterization and evaluation of exopolysaccharide produced by *Weissella confusa* AJ53**'. International conference on 'health, environment and industrial biotechnology (Biosangam)' at MNNIT, Allahabad, India (November 21-23, 2013).