

K. NEELAKANTESHWAR PATIL, Ph D

Senior Scientist, Department of Protein Chemistry and Technology
CSIR-Central Food Technological Research Institute, MYSURU - 570 020, INDIA

Education:

Ph.D. 2007 (Biochemistry), Department of Biochemistry, Gulbarga University, Gulbarga, India
M. Phil. 2001 (Biochemistry), Department of Biochemistry, Gulbarga University, Gulbarga, India
M. Sc. 2000 (Biochemistry), Department of Biochemistry, Gulbarga University, Gulbarga, India
B. Sc. 1998 (Chemistry, Botany, Zoology) LVD College, Gulbarga University, Gulbarga, India.

Research Area:

- Protein Biochemistry, Enzyme Technology and Food Microbiology
- Molecular Biology, DNA Recombination and Repair

Profession Experience:

- **Senior Scientist** (February 28, 2017- Till Date): Department of Protein Chemistry and Technology, CSIR-CFTRI, Mysore.
- **Senior Scientist** (April 28, 2015- February 27, 2017): Department of food Safety and Analytical Quality Control Laboratory, CSIR-CFTRI, Mysore.
- **Senior Scientist** (February 14, 2014- April 27, 2015): Microbiology and Fermentation Technology Department, CSIR-CFTRI, Mysore
- **Assistant Professor** (August 20, 2013- February 05, 2014): University of Horticultural Sciences, Bagalkot, Karnataka, India
- **CSIR-Research Associate** (July 01, 2011-August 19, 2013): Department of Biochemistry, Indian institute of Science, Bangalore, India.
- **DBT-Post Doctoral Fellow** (July 01, 2006-June 30, 2011): Department of Biochemistry, Indian institute of Science, Bangalore, India.

Publications:

1. Chandran AV, Prabu JR, Nautiyal A, K Neelakanteshwar Patil *et al. Journal of Biosciences* (2015) 40; 13–30
2. Le S, Chen H, Zhang X, Chen J, K Neelakanteshwar Patil *et al. Nucleic Acid Research* (2014) 42; 11992-11999
3. Astha N¹, K Neelakanteshwar Patil¹ *et al. Journal of Antimicrobial Chemotherapy* (2014) 69; 1834-1843 (¹Equal first authors)
4. K Neelakanteshwar Patil *et al. Biochimica et Biophysica Acta (BBA)- Proteins and Proteomics* (2011) 1814, 1802-1811
5. K Neelakanteshwar Patil *et al. Biochemistry* (2011) 50, 300–311
6. Sharadamma N¹, Khan K¹, Kumar P¹, K Neelakanteshwar Patil *et al. FEBS Journal* (2011) 278, 3447-3462 (¹Equal first authors)
7. Chandran AV, Prabu JR, Manjunath GP, K Neelakanteshwar Patil *et al. Acta Crystallographica, Section F* (2010) 66, 9, 1093-1095
8. Pawan Singh¹, Neelakanteshwar K Patil¹ *et al. Biochemistry* (2010) 49, 4872–4883 (¹Equal first authors)

9. Veeranagouda Y, Vijaykumar, Neelakanteshwar K Patil *et al.* *International Biodeterioration and Biodegradation* (2006) 57, 186-189
10. Neelakanteshwar K Patil *et al.* *International Biodeterioration and Biodegradation* (2006) 57, 82-87
11. Neelakanteshwar K Patil *et al.* *Current Microbiology* (2006) 52, 225-230
12. Vijaykumar M H, Veeranagouda Y, Neelakanteshwar K *et al.* *World Journal of Microbiology and Biotechnology* (2006) 22, 157-162
13. Neelakanteshwar Patil K and T B Karegoudar. *World Journal of Microbiology and Biotechnology* (2005) 21, 1493-1498
14. Veeranagouda Y, Neelakanteshwar K Patil *et al.* *Current Science* (2004) 87, 12, 1652-1654
15. Neelakanteshwar K Patil *et al.* *Indian Journal of Biotechnology* (2004) 3, 4, 568-572
16. Patil Neelakanteshwar K *et al.* *Journal of Microbiology and Biotechnology* (2003) 13, 1, 29-34

Workshop/ Training:

1. Attended the workshop on “Antimicrobial susceptibility testing for veterinary microbiologists” sponsored by ICMR-PGIMER, Chandigarh during August 05-06, 2016.
2. Attended the course “Laboratory management system and internal audit as per ISO/IEC 17025:2005 and NABL requirements” at STQC, Bangalore during June 21-24, 2016.
3. Attended the workshop on “Microbial systematics: Soil to sequences’ at Microbial Type Culture Collection (MTCC), CSIR-Institute of Microbial Technology, Chandigarh, during March 02-05, 2015.
4. Underwent Faculty Training Program during December 14-24, 2014 at CSIR-Human Resource Development Centre (HRDC), Ghaziabad.

Conference:

1. Delivered talk entitled “Characterization of *Listeria monocytogenes* RecA protein: Implications in recombination and in antibiotic resistance” held during July 13-14, 2018 at Indian Institute of Science, Bangalore, in International conference on ‘Genome Biology 2018: Mechanisms in health and Disease’.
2. Delivered talk on “Characterization of *Listeria monocytogenes* RecA protein: Implications in recombination and in antibiotic resistance” held during Sept. 30- Oct. 02, 2018 at Fairmont, Jaipur, in International conference on ‘Nextgen Genomics, Biology, Bioinformatics and Technologies (NGBT) 2018’
3. Delivered talk entitled “Molecular characterization of *Listeria monocytogenes* RecA protein: Implications in recombination and in antibiotic resistance” held during Nov.15-17, 2018 at Kushalnagar, in 39th Annual Summit of Indian Association of Biomedical Scientists (IABMS)-2018.

Projects:

- DST-SERB Early Career Research Award (2016) for total grand of 45 lakh.

Affiliation to academics/ bodies:

Member, Association of Food Scientists and Technologists (AFSTI), Mysore, India
 Member, Indian National Science Association (INSA), Kolkata, India
 Member, Association of Microbiologists of India (AMI), India
 Member, Society of Biological Chemists (SBC), India

Research Team:

Graduate Student / Ph. D Scholar
<p>Debika Ojha M. Sc., in Nutrition & Dietetics, Vidyasagar University, Midnapore, West Bengal. <i>Recipient of DST- INSPIRE Fellowship.</i> Joined in January 2014 under AcSIR program. -Debika's interest lies in understanding the mechanistic aspects of RecA protein and interplay in homologues recombination process in <i>Listeria Monocytogenes</i>.</p>
<p>Kajal Kiran M. Sc., in Microbiology, Jiwaji University, Gwalior, Madhya Pradesh. <i>Recipient of UGC- RGNF Fellowship.</i> Joined in August 2014 under AcSIR program. -Kajal's focus is in characterization of RecA protein in a food borne pathogen, <i>Staphylococcus aureus</i> and its interaction with other repair gene products.</p>
<p>Sangeetha S Singh M. Sc., in Biochemistry, Kuvempu University, Shimoga, Karnataka. <i>Recipient of DST- INSPIRE Fellowship.</i> Joined in August 2016 under AcSIR program. -Sangeetha is deciphering the role of dietary molecules in AMPK cascade especially in amelioration of hyperglycemia</p>
Project Fellow / Research Associate
<p>Greeshma M V M. Sc., in Genetics, Mysore University, Mysore, Karnataka. SERB- Project Assistant. Joined the lab in January 2018. -Greeshma involved in Bioinformatics and computations studies. Her interest also lies in protein purifications and protein-protein interactions.</p>

Contact Details: Locate us in Room No: 25, PCT Department, CSIR-CFTRI, Mysuru- 570020.

We are open for research collaborations and interested people may write to knpatil@cftri.res.in