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Academic Qualifications:

2012. Doctor of Philosophy (PhD) with Dr. L. S. Shashidhara from CSIR-Centre for Cellular & Molecular Biology, Hyderabad, India.

2005. Master of Science (Biochemistry) The Maharaja Sayajirao University, Vadodara, India.

2003. Bachelor of Science. Chemistry, Botany, Zoology; Govt. Autonomous Science College, The Rani Durgavati University, Jabalpur, India.

Appointments:

October 2019– Present. Assistant Professor- Research and DBT-India Ramalingaswami Fellow, Centre for Molecular Neurosciences, Kasturba Medical College, Manipal, India.

December 2018- September 2019. Consulting Research Scientist, Dr. Ulrike Heberlein's Lab, HHMI, Janelia Research Campus, Ashburn, VA, USA.

September 2012– December 2018. Postdoctoral Research Associate, Dr. Ulrike Heberlein Lab, HHMI, Janelia Research Campus, Ashburn, VA, USA.

Sponsored Projects undertaken as Principal Investigator:

- **DBT- Ramalingaswami Re-entry Fellowship:** Identification of epigenetic, transcriptional and behavioral mechanisms engaged by schizophrenia and related neuropsychiatric disorders. (2019-2024).
- **Manipal Academy of Higher Education, Seed Research Grant**
- **DBT, India Research Grant:** Transcriptional and behavioral mechanisms underlying social isolation stress in *Drosophila*. (2022-2024)

Publications:

- Patel D, Dabhi A M#, Aertslo CDS, Seervi M, Sneha KM#, **Agrawal P#**, Sahani M H, Kanojia D. FKBP1A over-expression correlates with poor prognosis and increased metastatic potential of HNSCC, 46(3): 443-453 (2022). *Cell Biology International*, 2022. (#Contributors from Agrawal lab).
- Yadav R S P, Upadhyaya S, Swaroopa P, **Agrawal P***, Measuring aggressive behavior in *Drosophila*, Chapter 73, 493-500 (2021). **Book: Experiments with *Drosophila* for Biology Courses, Indian Academy of Sciences**, Edited by Prof SC Lakhota & Prof HA Ranganath). (*Corresponding author).
- Kent F C*, **Agrawal P*** Regulation of Social Stress and Neural Degeneration by Activity Regulated Genes and Epigenetic Mechanisms in Dopaminergic Neurons, **Molecular Neurobiology**; 2020, 57, 4500- 4510. (*Co-corresponding author).

- **Agrawal P***, Kao D, Chung P, Looger LL. The neuropeptide Drosulfakinin regulates social isolation-induced aggression in *Drosophila*, **Journal of Experimental Biology**; 223,2, jeb207407 (* Corresponding author).
- **Agrawal P***, Chung P, Heberlein U, Kent F C*. Enabling cell-type-specific behavioral epigenetics in *Drosophila*: a modified high-yield INTACT method reveals the impact of social environment on the epigenetic landscape in dopaminergic neurons, **BMC Biology**; 2019, 17, 30 (*Co-corresponding author).
- Kim Y-K, Saver M, Simon J., Kent F C, Shao L, Eddison M, **Agrawal P**, Texada M, Truman J W, Heberlein U*; Repetitive aggressive encounters generate a long-lasting internal state in *Drosophila melanogaster* males, **Proceedings of National Academy of Sciences, USA**; 2018, 118, 1099-1104.
- **Agrawal P**, Shashidhara L S; ChIP for Hox proteins from *Drosophila* imaginal discs, **Methods in Molecular Biology**; 2014, 1196:241-53.
- **Agrawal P***, Habib F, Yelagandula Y, Shashidhara L S*; 2011. Genome-level identification of targets of Hox protein Ultrabithorax in *Drosophila*: novel mechanisms for target selection, **Scientific Reports**; 2011, 1, 205. (*Co-corresponding author).

Awards and Honors

- DBT, India Ramalingaswami Re-entry Fellowship 2019.
- International Travel fellowship for poster presentation of Doctoral work by Japanese Society of Developmental Biologists, at 44th Annual Meeting of JSDB at Okinawa, Japan (May 2011).
- International Travel fellowship for platform & poster presentation of Doctoral work at 1st Asia-Pacific *Drosophila* Research conference (APDRC), Taipei, Taiwan (May 2011).
- Best poster award for PhD thesis work at International symposium on Nuclear Architecture and Chromatin Dynamics, CCMB, Hyderabad, India (September 2008).
- Sanger Prize essay competition award, 2007, award included three months summer internship in the lab of Dr. Derek Stemple, Sanger Institute, Cambridge, UK (July - September 2007).
- UGC-CSIR NET- Senior Research Fellowship by Council of Scientific and Industrial Research, India (August 2007).
- UGC-CSIR NET- Junior Research Fellowship by Council of Scientific and Industrial Research, India (August 2005).
- National Graduate Aptitude Test in Engineering (GATE) in Life Sciences, 99 Percentile, All India Rank-64 (2005).
- Junior Scientist-Gold Medal for poster presentation on Master's thesis work at International microbiology symposium held at R. D. University, Jabalpur, India (2004).