

## FACULTY PROFILE



|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |             |                              |                        |                               |                                   |  |                |  |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|------------------------------|------------------------|-------------------------------|-----------------------------------|--|----------------|--|
| Name                                                         | PRAVEEN BAWANKAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |             |                              |                        | Date of Birth: 01.07.1979     |                                   |  |                |  |
| Designation                                                  | ASSISTANT PROFESSOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |             | Date of holding Present Post |                        |                               | 17.03.2025                        |  |                |  |
| Name of the Department and School                            | MICROBIOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |             |                              |                        | SCHOOL OF BIOLOGICAL SCIENCES |                                   |  |                |  |
| Contact Details                                              | Email: <a href="mailto:ap_praveenb@dhsgsu.edu.in">ap_praveenb@dhsgsu.edu.in</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |             |                              |                        | Mobile: 9767511303            |                                   |  |                |  |
| Additional Responsibility in the university, if any          | Teacher in charge RTPCR,<br>Teacher in charge FACS,<br>Member of Shourya Sangrahalaya,<br>Member of Anti-raging committee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |             |                              |                        |                               |                                   |  |                |  |
| Educational Qualifications (UG onwards)                      | M.Sc., Ph.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |             |                              |                        |                               |                                   |  |                |  |
| Research Area/Specialization                                 | RNA molecular Biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |             |                              |                        |                               |                                   |  |                |  |
| Awards/ Honors / Fellowship Conferred (With details thereof) | <ul style="list-style-type: none"><li>8 years of Max Planck fellowship for the research in Germany.</li><li>Award for <b>Excellence in thesis work</b> at the 48<sup>th</sup> convocation of IIT Bombay India 2010.</li><li><b>Young Scientist Travel Grant</b> awarded by Government of India for attending the Molecular Parasitology Meeting 16-20 September 2007 Woods Hole MBL Massachusetts USA.</li><li><b>Senior Research Fellowship</b> award from UGC-CSIR (NET) in July 2005.</li><li><b>Junior Research Fellowship</b> award from UGC-CSIR (NET) in June 2003.</li><li><b>All India Rank 10<sup>th</sup></b> in GATE-2003 (Graduate Aptitude Test in Engineering-2003) scored 99.72 percentile.</li><li><b>Shyama Prasad Mukherjee Fellowship</b> nomination in 2003.</li><li><b>Meritorious student fee waiver</b> for M.Sc. conferred by Rani Durgavati University to top four meritorious students in all India Master of Science entrance examination.</li><li><b>Invited speaker:</b> National Research Colloquium cum Workshop at Department of Microbiology, M. D. University, Rohtak India.</li></ul> |  |             |                              |                        |                               |                                   |  |                |  |
| Summary of Publications (Number only)                        | Research Papers<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Books<br>00 |                              | Chapter in Books<br>00 |                               | Seminars/ Conferences Proceedings |  | Projects<br>00 |  |

### Research Projects (Completed and Ongoing):

| S.No. | Title | Funding Agency | Duration | Sanction order No. & Date | Amount in Rs. Lakh | Completed/ongoing |
|-------|-------|----------------|----------|---------------------------|--------------------|-------------------|
| -NA-  | -NA-  | -NA-           | -NA-     | -NA-                      | -NA-               | -NA-              |

## PUBLICATIONS :

1. The Nito-Flacc heterodimer of the Mettl3-Mettl14 complex plays a key role in regulating m6A deposition on RNA, which in turn affects the alternative splicing of pre-mRNAs. Migle Kazlauskienė, **Praveen Bawankar**, Jean-Yves Roignant and Martin Jinek (under preparation)
2. Novel interactor of m6A reader protein plays a key role in regulating the alternative splicing of pre-mRNAs. **Praveen Bawankar**, Jean-Yves Roignant (under preparation)
3. Ho CH, Paolantoni C, **Bawankar P**, Tang Z, Brown S, Roignant JY, Treisman JE. An exon junction complex-independent function of Barentsz in neuromuscular synapse growth. **EMBO Rep**. 2022 Jan 5;23(1):e53231. doi: 10.15252/embr.202153231. **(IF 6.5)**
4. **Bawankar P**, Lence T, Paolantoni C, Haussmann IU, Kazlauskienė M, Jacob D, Heidelberger JB, Richter FM, Nallasivan MP, Morin V, Kreim N, Beli P, Helm M, Jinek M, Soller M, Roignant JY. Hakai is required for stabilization of core components of the m<sup>6</sup>A mRNA methylation machinery. **Nat Commun**. 2021 Jun 18;12(1):3778. doi: 10.1038/s41467-021-23892-5. **(IF 15.50)**
5. Peter D, Ruscica V, **Bawankar P**, Weber R, Helms S, Valkov E, Igreja C, Izaurralde E. Molecular basis for GIGYF-Me31B complex assembly in 4EHP-mediated translational repression. **Genes Dev**. 2019 Oct 1;33(19-20):1355-1360. doi: 10.1101/gad.329219.119. Epub 2019 Aug 22. **(IF 8.990)**
6. Ruscica V, **Bawankar P**, Peter D, Helms S, Igreja C, Izaurralde E. Direct role for the Drosophila GIGYF protein in 4EHP-mediated mRNA repression. **Nucleic Acids Res**. 2019 Jul 26;47(13):7035-7048. doi: 10.1093/nar/gkz429. **(IF 11.561)**
7. Peter D, Weber R, Sandmeir F, Wohlbold L, Helms S, **Bawankar P**, Valkov E, Igreja C, Izaurralde E. GIGYF1/2 proteins use auxiliary sequences to selectively bind to 4EHP and repress target mRNA expression. **Genes Dev**. 2017 Jun 1;31(11):1147-1161. doi: 10.1101/gad.299420.117. Epub 2017 Jul 11. **(IF 9.413)**
8. Sgromo A, Raisch T, **Bawankar P**, Bhandari D, Chen Y, Kuzuoğlu-Öztürk D, Weichenrieder O, Izaurralde E. A CAF40-binding motif facilitates recruitment of the CCR4-NOT complex to mRNAs targeted by Drosophila Roquin. **Nat Commun**. 2017 Feb 6; 8:14307. doi: 10.1038/ncomms14307. **(IF 12.124)**
9. Chen Y, Boland A, Kuzuoğlu-Öztürk D, **Bawankar P**, Loh B, Chang CT, Weichenrieder O, Izaurralde E. A DDX6-CNOT1 complex and W-binding pockets in CNOT9 reveal direct links between miRNA target recognition and silencing. **Mol Cell**. 2014 Jun 5;54(5):737-50. doi: 10.1016/j.molcel.2014.03.034. **(IF 14.018)**
10. **Bawankar P**, Loh B, Wohlbold L, Schmidt S, Izaurralde E. NOT10 and C2orf29/NOT11 form a conserved module of the CCR4-NOT complex that docks onto the NOT1 N-terminal domain. **RNA Biol**. 2013 Feb;10(2):228-44. doi: 10.4161/rna.23018. **(IF 5.377)**
11. Petit AP, Wohlbold L, **Bawankar P**, Huntzinger E, Schmidt S, Izaurralde E, Weichenrieder O. The structural basis for the interaction between the CAF1 nuclease and the NOT1 scaffold of the human CCR4-NOT deadenylase complex. **Nucleic Acids Res**. 2012 Nov;40(21):11058-72. doi: 10.1093/nar/gks883. **(IF 8.278)**
12. Panneerselvam P, **Bawankar P**, Kulkarni S, Patankar S. In Silico Prediction of Evolutionarily Conserved GC-Rich Elements Associated with Antigenic Proteins of Plasmodium falciparum. **Evol Bioinform Online**. 2011;7:235-55. doi: 10.4137/EBO.S8162. **(IF 1.229)**
13. **Bawankar P**, Shaw PJ, Sardana R, Babar PH, Patankar S. 5' and 3' end modifications of spliceosomal RNAs in Plasmodium falciparum. **Mol Biol Rep**. 2010 Apr;37(4):2125-33. doi: 10.1007/s11033-009-9682-4. **(IF 1.875)**
14. Upadhyay R, **Bawankar P**, Malhotra D, Patankar S. A screen for conserved sequences with biased base composition identifies noncoding RNAs in the A-T rich genome of Plasmodium falciparum. **Mol Biochem Parasitol**. 2005 Dec;144(2):149-58. doi: 10.1016/j.molbiopara.2005.08.012. **(IF 2.951)**

## **International Seminar/Conference/Workshops**

### **Posters presented at the conferences**

- **Praveen Bawankar**, Natalia Bercovich, Elisa Izaurralde EMBO|EMBL Symposium The Complex Life of mRNA 7-10 October 2012, EMBL Heidelberg, Germany
- **Praveen Bawankar**, Swati Patankar Molecular Parasitology Meeting 16-20 September 2007 (MPM XVII) Woods Hole MBL Massachusetts USA
- **Praveen Bawankar**, Swati Patankar European Molecular Biology Organization Workshop on 'Developmental Mechanisms and Disease Models' 16–20 December 2006 Indian Institute of Technology Kanpur India

### **Posters presented by co-authors**

- Daniel Peter, Ramona Weber, Felix Sandmeir, Vincenzo Ruscica, **Praveen Bawankar**, Eugene Valkov, Cátia Igreja, Elisa Izaurralde. EMBO Conference: Protein Synthesis and Translational Control. 6-9 September 2017 EMBL Heidelberg, Germany
- Vincenzo Ruscica, **Praveen Bawankar**, Daniel Peter, Catia Igreja, Elisa Izaurralde. EMBO Conference: Protein Synthesis and Translational Control 6-9 September 2017 EMBL Heidelberg, Germany
- Ramona Weber, Daniel Peter, **Praveen Bawankar**, Sigrun Helms, Eugene Valkov, Cátia Igreja, Elisa Izaurralde. EUKARYOTIC mRNA PROCESSING August 22–August 26, 2017 Cold Spring Harbor Laboratory New York USA
- Ying Chen Andreas Boland, Mary Christie, Duygu Kuzuoglu-Öztürk, Belinda Loh, **Praveen Bawankar**, Oliver Weichenrieder, Elisa Izaurralde RNA 2014 The Nineteenth Annual Meeting of the RNA Society June 3–8, 2014 Quebec City, Canada
- Ying Chen, Andreas Boland, Lara Wohlbold, **Praveen Bawankar**, Oliver Weichenrieder, Elisa Izaurralde EMBO|EMBL Symposium The Complex Life of mRNA 7-10 October 2012, EMBL Heidelberg, Germany
- Ying Chen, Andreas Boland, Lara Wohlbold, **Praveen Bawankar**, Oliver Weichenrieder, Elisa Izaurralde FASEB Summer Research Conferences June 24-29, 2012 Steamboat Springs, Colorado, USA
- Andreas Boland, Ying Chen, Lara Wohlbold, **Praveen Bawankar**, Oliver Weichenrieder, Elisa Izaurralde RNA 2012: The 17th Annual Meeting of the RNA Society May 29 – June 2, 2012 Ann Arbor, Michigan, USA

### **Workshop attended**

- EMBO Laboratory Leadership Course: 12 - 14 November 2024 Leimen Heidelberg Germany
- EMBO | EMBL Symposium: The complex life of RNA 15 - 18 October 2024, EMBL Advanced Training Centre
- CIG Symposium 2024 –
- Vienna RNA Conference: RNA Modification and Processing 26th – 29th October 2022 Medical University of Vienna Van Swieten Saal Van-Swieten-Gasse 1a, 1090 Vienna Austria
- Functions and mechanism of m6A, 07-09 Sept 2022 Ludwigshafen Germany
- 3rd Symposium on Nucleic Acid Modifications TRR 319 & SPP 1784 joined meeting 27. March -30. March 2022, Alte Mälzerei Mosbach Germany
- SFB1066 and TRR319 Medicinal mRNA and Immunity 7-8 July 2022 ErbacherHof in Mainz Germany
- EMBO Workshop: The Epitranscriptome 9 - 11 February 2022 Heidelberg Germany
- Functional genomics of Malaria Parasites October 9-18, 2005 ICGB New Delhi, Funded by EMBO/HHMI/TDR/WEHI/ICGB/ LUMC/ TIGR/FIAT LUX
- Theoretical and practical course "Molecular biology techniques in malaria research" 6-17 December 2004, ICGB New Delhi,
- Proceedings of the national seminar on "Recent Advances in Molecular Physiology" held on 4-6 Feb., 2002 at the University of Kalyani. Kalyani-741235, West Bengal, India OP-13, 70-77 (2002)

No. of Ph.D. Awarded:

-NA-

No. of Ph.D. Scholars working:

-NA-

### **Contact Details :**

Email id : [ap\\_praveenb@dhsgsu.edu.in](mailto:ap_praveenb@dhsgsu.edu.in)

Mobile No : 9767511303

Signature