



# GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY

PASCHIM MEDINIPUR, PIN 721135, WEST BENGAL

1. Name: DR. MANIDIP SHASMAL

2. Designation Assistant Professor

3. Department: Zoology

4. Highest academic degree: Ph.D.

5. Specialization: Molecular cytogenetics, cancer biology and biotechnology



6. Contact number:

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8. Date of joining to the service: 7th Dec, 2015

9. Colleges served:

Name of the College	From	Till
Govt. Gen. Degree College, Keshiary	12-07-2015	present

10. Area of research interest:

- 1 Structural biology, electron cryo microscopy (cryo-EM)
- 2 Protein quality control.
- 3 Viral subversion of host machineries.

11. Publications:

Paper/Research article		Book/book-chapter		Citation	ΣIF	i-index	Abstracts
International	National	International	National				
5		1	1	98	~27.5	5	1

12. Awards/achievement of special mention:

- 5 Postdoctoral fellowship from University of Utah
- 4 Postdoctoral fellowship from UC, San Francisco (Declined)
- 3 DBT- Research Associateship, DBT, Govt. of India
- 2 The Protein Society " Best Poster Award" at IISc., Bangalore.
- 1 CSIR-Junior and Senior Research Fellowships, CSIR-NET JRF

13. Research project/extramural grant mobilized:

Funding agency/body	Amount(Rs.)	Name of the research project	From	Till

**14. Patent (International/National)**

NA

**15. Editorial board member/ Reviewer of any journal/literary body:**

NA

2

1

**16. Member of learned society:**

3 NA

2

1

**17. List of full length publications (year wise in descending order):**

- 5 Rollins, MG., **Shasmal, M.**, Meade, N., Astar, H., Shen, PS., Walsh, D. (2021). Negative charge in the RACK1 loop broadens the translational capacity of the human ribosome. *Cell Reports Sep 7;36(10):109663*. DOI; <https://doi.org/10.1016/j.celrep.2021.109663>
- 4 Ghosh, R., Kaypee, S., **Shasmal, M.**, Kundu, T. K., Roy, S., & Sengupta, J. (2019). Tumor Suppressor p53-Mediated Structural Reorganization of the Transcriptional Coactivator p300. *Biochemistry*, 58, 3434–3443. DOI; [10.1021/acs.biochem.9b00333](https://doi.org/10.1021/acs.biochem.9b00333)
- 3 **Shasmal, M.**, Dey, S., Shaikh, T. R., Bhakta, S., & Sengupta, J. (2016). E. coli metabolic protein aldehyde-alcohol dehydrogenase-E binds to the ribosome: a unique moonlighting action revealed. *Sci Rep*, 6, 19936. DOI; [10.1038/srep19936](https://doi.org/10.1038/srep19936).
- 2 **Shasmal, M.**, & Sengupta, J. (2012). Structural diversity in bacterial ribosomes: mycobacterial 70S ribosome structure reveals novel features. *PLoS One*, 7(2), e31742. DOI; [10.1371/journal.pone.0031742](https://doi.org/10.1371/journal.pone.0031742)
- 1 **Shasmal, M.**, Chakraborty, B., & Sengupta, J. (2010). Intrinsic molecular properties of the protein-protein bridge facilitate ratchet-like motion of the ribosome. *Biochem Biophys Res Commun*, 399(2), 192-197. DOI; [10.1016/j.bbrc.2010.07.053](https://doi.org/10.1016/j.bbrc.2010.07.053).

**18. List of published abstract (year wise in descending order):**

- 1 Jayati Sengupta & Manidip Shasmal (2013). Cryo-EM visualization of Mycobacterium 70S ribosome reveals unique structural components at the function sites. *Journal of Biomolecular Structure and Dynamics* 31:sup1, 21-21. DOI: [10.1080/07391102.2013.786467](https://doi.org/10.1080/07391102.2013.786467)

**19. List of Seminar/Workshop/Conference/Symposium attended (year wise in descending order):**

- 7 Workshop on cryo- electron microscopy in Life Sciences. Organized by Saha Institute of Nuclear Physics, Kolkata and National Institute of Cholera & Enteric Diseases, Kolkata. 03/07/2013 to 05/07/2013.
- 6 International Conference on Electron Microscopy and XXIV Annual Meeting of the Electron Microscopy Society of India (EMSI). Organized by Saha Institute of Nuclear Physics, Kolkata and National Institute of Cholera & Enteric Diseases, Kolkata. 03/07/2013 to 05/07/2013.

- 5 International Conference on Bio molecular Forms and Functions: A Celebration of 50 Years of the Ramachandran Map. Organized by Indian Institute of Science, Bangalore. 08/01/2013 to 11/01/2013.
- 4 National Fluorescence Workshop in FCS 2012. Organized by Saha Institute of Nuclear Physics, Kolkata and CSIR-Indian Institute of Chemical Biology, Kolkata. 03/12/2012 to 07/12/2012.
- 3 Training Programme on Laboratory Safety: Radiation Safety, Chemical Safety & Bio-safety. Organized by CSIR-Indian Institute of Chemical Biology, Kolkata. 15/09/2011.
- 2 50th International Conference on Electron Nanoscopy & XXXII Annual Meeting of Electron Microscopy Society of India. Organized by Defence Metallurgical Research Laboratory, Hyderabad. 06/07/2011 to 08/07/2011.
- 1 Workshop on Molecular Biological Techniques. Organized by Department of Zoology, University of Burdwan. 16/04/2008 to 18/04/2008.