



VIDYASAGAR COLLEGE

39 SANKAR GHOSH LANE
KOLKATA

Name: DR. PAUSHALI ROY

1	Name	DR. PAUSHALI ROY		
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5	Date of Joining	08.09.2008		
Academic qualifications				
6	Degree	Subject	University	Year
	Ph.D	BOTANY	WEST BENGAL STATE UNIVERSITY	2019
	M.Phil			
	MA/M.sc	BOTANY	PRESIDENCY COLLEGE, UNIVERSITY OF CALCUTTA	2007
	BA/B.Sc	BOTANY	BETHUNE COLLEGE, UNIVERSITY OF CALCUTTA	2005
PH.D. DETAILS				
7	Title of the Thesis	CHARACTERIZATION, STRUCTURAL ANALYSES OF DCL AND ASSOCIATED PROTEINS IN PLANTS		
	Field of specialization under subject/ discipline	PROTEIN STRUCTURAL ANALYSES, BIOINFORMATICS		
8	PREVIOUS POSITIONS/Engagement	NA		
9	Google scholar page:	NA		
10	ORCID ID	https://orcid.org/0000-0001-9837-7305		
11	HONOURS AND AWARDS	NA		
12	Field of Research	PROTEIN STRUCTURAL ANALYSES AND COMPARATIVE STUDIES, PHYLOGENETIC EVALUATION		
13	TECHNICAL UNDERSTANDING AND EXPERIENCE	Gel electrophoresis (denaturing, native, and agarose), PCR based analysis – RAPD, ISSR, Tissue culture and micro propagation practices, Microbial culturing, Restriction enzyme digestion of DNA and DNA ligation, Plasmid isolation, RFLP, Centrifuges – ultra, refrigerated and microfuge, UV – visual spectrophotometer, Gel documentation system, Blotting		

		<p>techniques (Southern, Western), Southern Hybridization, Molecular Cloning.</p> <p>BIOINFORMATICVS TOOLS HANDLED- BLASTp, BLASTn. tBLASTx, tBLASTn, CLUSTAL W. (including Jal view), CONSDOM, RASMOL and Cn3D, SWISS MODEL, VIENNA RNA SUITE, MOLPROBITY ANALYZER, REPEAT MASKER, IMPROBIZER.</p>
14	SUMMARY OF RESEARCH EXPERIENCE	<ul style="list-style-type: none"> • Analysis of Acetyl Co A: Deacetylindoline 4-O-Acetyltransferase (DAT) from <i>Catharanthus Roseus</i> (L.) G. Don. An Enzyme Responsible For The Terminal Steps In The Biosynthesis Of Vindoline That Has Been Shown To Be Anti-Mitotic And Anti-Microtubule Agents For The Treatment Of Cancer. • PhD Project: Thesis Topic: "<i>Characterization, structural analyses of DCL & associated proteins in plants</i>"- characterization and providing insights on the structural and functional properties and protein-protein interactions of DCL and Associated Proteins based on both sequence and structure based analyses. Comparative/homology modelling for prediction of the three dimensional structures of DCL and Associated Proteins.
15	EXPERIENCE OF PROJECT MANAGEMENT	<p>Hands on experience on various laboratory techniques like Gel electrophoresis,PCR based analyses, Tissue culture practices, Microbial culturing,Restriction enzyme digestion of DNA and DNA ligation, Plasmid isolation, RFLP, Centrifuges, UV – spectrophotometer, Gel documentation system, Blotting techniques, Southern Hybridization, Molecular Cloning, etc. Skilled in handling Bioinformatics tools like BLASTp, BLASTn. tBLASTx, tBLASTn, CLUSTAL W. (including Jal view),CONSDOM, RASMOL and Cn3D, SWISS MODEL,VIENNA RNA SUITE, MOLPROBITY ANALYZER, REPEAT MASKER, IMPROBIZER, NEB CUTTER, PRIMER 3, CHROMAS, BIOINFX, RNA2 PREDICTION TOOL, ORF FINDER, MODELLER, PYMOL, etc.</p>
16	COMPLETE LIST OF PUBLICATIONS (Maintain Harvard Format)	<ol style="list-style-type: none"> 1. Dhar, P. and Roy P. (2020). MOLECULAR DOCKING UNMASKS POTENT PHYTOLOGANDS AGAINST SARS-COV-2 SPIKE GLYCOPROTEIN, MAIN PROTEASE, PAPAINE-LIKE PROTEASE, AND RNA-DEPENDENT RNA POLYMERASE. Defence Life Science Journal.. VOL 5. pp 255-267. 2. Roy P. and Datta A. (2017) DCL AND ASSOCIATED PROTEINS OF ARABIDOPSIS THALIANA - AN INTERACTION STUDY. International Letters of Natural Sciences. 2017. VOL 61. pp 85-94

3. Roy P. and Datta A. (2016) COMPUTATIONAL SEQUENCE ANALYSIS OF ARABIDOPSIS THALIANA DCL PROTEIN. Life Science- A Heterogenous Unit of Multi-Disciplinary Understanding, Department of Botany, Vidyasagar College, Kolkata. 2016.
4. Roy P., Basu P., Ganguli S. and Datta A. (2009). GENOME WIDE SNRNP MOTIFS AND REGULATORY SEQUENCES IN HIV1 ISOLATES. International Journal of Bioinformatics Research. Volume 1 (2) pg 14 – 26.
5. Dey S.K., Ganguli S., Basu P., Chakraborty H.J., Roy P. and Datta A. (2011) PSEUDOKNOTS IN HUMAN SNRNP'S. International Journal of Bioinformatics Research. 2011. Vol 3(1). pp 194-199.
6. Adhikary M., Ganguli S., Chakraborty H.J., Basu P., Das S.G., Roy P., Gupta S. and Datta A. (2010) COMPUTATIONAL ANALYSIS OF THE SAG 13 GENE ENCODING AN ALCOHOL DEHYDROGENASE. Journal of Pharmaceutical and Biomedical Sciences. VOL 2(07).
7. Ganguli S., Dey S.K., Dhar P., Basu P., Roy P. and Datta A. (2010) CATALYTIC RNA WORLD RELICS IN DICER RNAS. International Journal of Genetics. VOL 2(2) pp 8-17.
8. Basu P., Chakraborty H.J., Ganguli S., Roy P. and Datta A. (2010) PHYLOGENETIC SIGNATURES OF FUNCTIONAL CONSERVEDNESS IN LANTIBIOTICS- AN IN SILICO REGULOMICS STUDY. International Journal of Microbiology Research. VOL 2(2) pp 5-11.
9. Chakraborty H.J., Ganguli S., Basu P., Roy P. and Datta A. (2010) STRUCTURAL ANALYSIS OF LEUCOCINE – AN ESSENTIAL BACTERIOCIN. International Journal of Bioinformatics Research Vol 2(2), pg 01 – 06.

		<p>10. Dey S.K., Ganguli S., Basu P., Roy P. and Datta A. (2010) LYSINE RICHNESS IN HUMAN SNURPS - POSSIBLE SITES FOR ELECTROPHILIC ATTACKS. Bioinformation 4(9): 409-411.</p> <p>11. Gupta S., Saha S., Roy P., Basu P. and Ganguli S. (2010) STRUCTURAL AND FUNCTIONAL ANALYSIS OF GLUTATHIONE PEROXIDASE FROM RICINUS COMMUNIS L.– A COMPUTATIONAL APPROACH. International Journal of Bioinformatics Research. VOL 2(1) pg 20 – 30.</p>
17	Extracurricular Activities	NA
18	Link to personal website (if any)	NA