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Puja Sen

OBJECTIVE	To associate with an organization where scope for contributing and learning are high. A challenging fast pace environment with healthy competitive culture would best suit me.		
SYNOPSIS	<ul style="list-style-type: none"> ☉ <i>Successfully pursuing my Ph.D from **** University, Kolkata as a Research Associate since 2013.</i> ☉ <i>Have an overall job research experience of over 3.5 years and gaining considerable experience in the respective field. Also have experience in handling/working with microorganisms, various lab instruments, microscope etc. during my Ph.D and MSc duration. Can maintain proper sterile condition also.</i> 		
CAREER INTERESTS	<ul style="list-style-type: none"> ☞ Lecturer ☞ Micro Biology ☞ Forensics ☞ Healthcare ☞ Marketing & Sales 	<ul style="list-style-type: none"> ☞ R&D ☞ New Product Development ☞ Nutrition BioChemistry ☞ Public Relations ☞ Corporate Communication 	

ACADEMIC CREDENTIALS

Degree	Subjects	University / Board	Year	Div.
M.Sc.	Zoology, Genetics & Molecular Bio.	UNIVERSITY OF CALCUTTA	2013	1 st
B.Sc. (Zoology Hons)	CHEM (P), BOT (P)	UNIVERSITY OF CALCUTTA	2011	1 st
HIGHER SECONDARY (SCIENCE)	ENG, BENG, CHEM, PHYSICS, BIO, MATHS, ENVS.	WBCHSE	2008	1 st

MADHYAMIK	All Subjects	WBBSE	2006	1 st
JOB EXPERIENCE	<p style="text-align: center;">**** DEPARTMENT, CALCUTTA UNIVERSITY</p> <p style="text-align: center;">Designation : Research Associate</p> <p style="text-align: center;">Duration : Since April 2013 - Present</p>			
ACADEMIC ACHIEVEMENTS	<ul style="list-style-type: none"> ❖ <i>National Merit Scholarship Scheme 2006 (Rank 72 in Madhyamik Examination)</i> ❖ <i>Scheme of Scholarship for College and University Students, Government of India, Ministry of Human Resource and Development, Department of Higher Education 2008.</i> ❖ <i>Order of Merit in B.Sc. Examination from University of Calcutta 2011 (Rank 5)</i> ❖ <i>Order of Merit in M.Sc. Examination from University of Calcutta 2013 (Rank 5; Internal)</i> 			
CSIR - NET RANKINGS	<ul style="list-style-type: none"> ☞ CSIR-NET June 2014, LS- 044: ROLL NO.: 350799 ☞ CSIR-NET December 2013, LS- 054: ROLL NO.: 351903 			
PROJECTS UNDERTAKEN	<ul style="list-style-type: none"> ➤ miR-200a prevents renal fibrogenesis through repression of TGF-β2 expression (Department of Zoology, University of Calcutta). ➤ Investigating the role of Tbx20 in Cardiomyocyte protection post cardiac injury (Funded by FRPDF, Department of Life Sciences, Presidency University). ➤ Tbx20 functions in epicardial cell proliferation and differentiation (Funded by UGC-Start Up, Department of Life Sciences, Presidency University). ➤ FoxO transcription factor function in Cardiomyocyte proliferation (Funded by DBT India, Department of Life Sciences and Biotechnology, Jadavpur University). ➤ Asporin function in aortic endothelial cell mineralization and calcification (Funded by UGC-Major, Department of Life Sciences, Presidency University). ➤ Tbx20 function in cardiomyocyte proliferation and survival following cardiac injury (Funded by DBT India, Department of Life Sciences, Presidency University and Department of Life Sciences and Biotechnology, Jadavpur University). 			

		<p>➤ Admts4 as a marker of cardiac stress (Funded by DST, Department of Life Sciences and Biotechnology, Jadavpur University).</p>
<p>TRAININGS UNDERTAKEN</p>		<ul style="list-style-type: none"> ☞ Short term training in handling Drosophila, maintaining culture assisting in a project of Visual observation detailing in Drosophila imaginal discs as a part of M.Sc. programme. ☞ Short term training on molecular techniques (6months) at National Institute of Cholera and Enteric diseases (NICED) Kolkata as a part of M.Sc. programme. ☞ Short term training on handling laboratory mouse for clinical studies.
<p>CONFERENCE/ SEMINARS ATTENDED</p>		<ul style="list-style-type: none"> ☞ Participation at the National Symposium entitled “Modern Trends in Biological Sciences” organized by the Physiological Institute Presidency University held on 21st February, 2014. ☞ Poster presentation in the XXXVIII All India Cell Biology Conference and International Symposium on “Cellular Response to Drugs” held at CSIR-CDRI, Lucknow during December 10-12, 2014. ☞ Part of organizing committee and poster presentation in the 1stNational Symposium on “Molecules to Systems” held at Department of Biological Science, Presidency University during February 29-31, 2015. ☞ Poster presentation in the XXXIX All India Cell Biology Conference and International Symposium on “Cellular Organization and Dynamics” held at Thiruvananthapuram, Kerala during December 6-8, 2015. ☞ Part of organizing committee of the West Bengal State Science Congress held at Presidency University during February, 2016.
<p>PUBLICATIONS</p>		<ul style="list-style-type: none"> ☞ Paper Title : Tbx20 promotes H9c2 cell survival against oxidative stress and hypoxia in vitro Name of the journal : Molecular and Cellular Biochemistry (IF: 2.613; 2016) Authorship status : Peer Review ☞ Paper Title : β-catenin stabilization promotes proliferation and increase in Cardiomyocyte number in avian

embryonic epicardial explant culture

Name of the Journal: **Journal of Biosciences (IF: 1.419; 2015)**

Authorship status : **Peer Review**

SKILL SET

SOFTWARE SKILLS

- ✦ Proficient in Windows 2007, 2013 & XP
- ✦ Proficient in **MS - OFFICE** 2000, 2003 & 2007 (Word, Excel, PowerPoint, Outlook)
- ✦ Proficient in Corel Draw; Adobe Photoshop
- ✦ **Internet Proficient**

TECHNICAL SKILLS

CELL CULTURE TECHNIQUES

- ✦ **Animal Cell Cultures: Secondary Culture** (H9c2; HEK293), **Primary Culture** (Early Embryonic Chick: Pro-epicardial organ, Epicardium; Late Embryonic Chick: Cardiomyocyte, Fibroblast; Adult Chick: Valvular cells.)
- ✦ **Culture Techniques:** Cell maintenance, stress induction; Transfection (Gain-of-Function); siRNA (Loss-of-Function); Cell counting; Drug delivery; Cell freezing; Cell revival.

MOLECULAR TECHNIQUES

- ✦ **Transcript Level:** RNA Isolation; DNA isolation; cDNA synthesis; Reverse Transcriptase PCR; Realtime PCR; Gel Electrophoresis; Insitu-Hybridisation.
- ✦ **Protein Level:** Protein extraction; Protein estimation; SDS-PAGE; Western Blot; Antibody Staining.
- ✦ **Others:** Cloning; Plasmid Isolation and Elusion; RFLP

MICROBIOLOGICAL TECHNIQUES

- ✦ Basic microbiology technique (preparation of culture media, plating methods).
- ✦ Competent cell preparation

HISTOLOGY

- ✦ Tissue fixation; Embedding; Sectioning; Staining.

STATISTICAL DATA INTERPRETATION

- ✦ Student's t-test; ANOVA

INSTRUMENTATION

- ✦ **Cell culture Instruments:** Biosafety Laminar Hood; CO₂ Incubator; Flow-cytometer; Haemocytometer; Temperature Control Water-bath; Steri-pipette and micro-pipette and Liquid Nitrogen handling.
- ✦ **Spectros:** Spectrophotometer; Fluorescence spectrometer; UV spectrometer.
- ✦ **Microscopy:** Bright field Microscope; Inverted Microscope; Fluorescence Upright Microscope; Fluorescence Inverted Microscope.

		<ul style="list-style-type: none"> ☞ Centrifuge: Bench top centrifuge; Cooling Centrifuge; Ultra Centrifuge. ☞ PCR: Normal thermal cyclers; Real-time PCR. ☞ Others: UV Trans-illuminator; Gel-doc; ELISA plate reader; Homogenizer; Vortex; Rocker; pH meter; Gel electrophoresis and SDS-PAGE casting and running apparatus. ☞ Freezer: 4°C; -20°C; -80°C.
CHARACTERISTIC STRENGTHS		<ul style="list-style-type: none"> ✓ <i>Good motivator and a pleasing personality.</i> ✓ <i>Effective Leadership qualities.</i> ✓ <i>Value for Quality & Time.</i> ✓ <i>Enthusiastic & fast learner.</i> ✓ <i>“Team work” approach towards achievement of collective goals.</i>
EXTRA - CURRICULARS		<ul style="list-style-type: none"> ☉ Leadership skills and teamwork abilities attained by providing scientific dissertation trainings to Post graduate and Under-graduate students. ☉ Mentoring young minds of Post graduate and Under-graduate students by taking academic sessions and practical classes.
PERSONAL DOSSIER	Sex	Female
	Date Of Birth	December 26, 1989
	Marital Status	<i>Single</i>
	Languages Known	English, Bengali & Hindi
	Personal Interests	Listening to Music, Travelling, Reading Books
REFERENCE		Will be furnished upon Request.