

POOJA SINGH

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pooja2410058@gmail.com

Objective: - To obtain a research position involving scientific research and management fields in a premier Industrial laboratory specializing in the field of biochemistry, Molecular biology, Protein purification.

Experience:-

Industrial Research Experience:-

Transasia Diagnostics Private Limited

February 2022 to Present

Senior Research Executive

Working on Antibody engineering and Antibody designing Projects.

Have Experience in Cloning (Infusion, Ligation, Topo, Primer walking), Bacterial Expression (E.coli expression of His Tag proteins by IPTG induction, Arabinose induction) and Purification (Ni NTA purification).

Baculovirus cloning (Bacmid Preparation) and Expression in Insect cell culture (SF9 cells).

Syngene International Limited

August 2019 to January 2022

Research Associate

Have experience in various Molecular biology techniques such as PCR, Digestion, Cloning (Infusion, ligation, Topo), preparation of competent cells, primer designing.

Have worked on protein expression (SDS-PAGE, Western blot) as well small scale purification of his-tag proteins using Nickel NTA column.

Have done projects on ScFv cloning, expression and purification and V-gene cloning.

Academic Research Experience:-

Savitribai Phule Pune University

Dec 2018- May 2019

M.Sc. Dissertation

Topic- "Two siderophore suits in an indigenous salt tolerant *Pseudomonas stutzeri*: Exochelin and Desferrioxamine-E" under Dr. M.V Kulkarni at Department of Chemistry, Pune University.

The salt tolerant *Pseudomonas stutzeri* produce two siderophore under iron depleted conditions for iron sequestration. These two were identified as Exochelin and Desferrioxamine-E. Their production, extraction, purification and chemical characterization was carried out.

IIT Bombay

May 2018- July 2018

Summer Internship

Topic- Evaluation and Potential of a novel glucose dehydrogenase for co-factor regeneration in bio catalytic processes under Dr. Pramod P Wangikar at Chemical Engineering Department IIT BOMBAY.

Glucose Dehydrogenase are important auxiliary enzymes in biocatalysis employed in regeneration of reduced nicotinamide cofactors for Oxidoreductase catalysed reactions.

Recombination, expression, purification, characterization was carried out also its application as NADH Regenerator in Biotransformation.

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Publication:- Shah, Shikha and Sunder, Avinash and **Singh, Pooja** and Wangikar, Pramod. (2019). Characterization and Application of a Robust Glucose Dehydrogenase from *Paenibacillus pini* for Cofactor regeneration in Biocatalysis. Indian Journal of Microbiology. 10.1007/s12088-09-00834-w.

Achievements and Awards:-

- *Pune University Gold Medalist*
- Has been awarded with CSIR-National Chemical Laboratory Scholarship on merit basis for year 2018-2019.
- GATE-2020 qualified

Education:-

Degree	College	University/ Board	Year of Passing	Grades
M. Sc Biochemistry	Savitribai Phule Pune University, Pune	Pune University	2019	9.37 CGPA
B.Sc Chemistry	R.Y.K College, Nashik	Pune University	2017	83.08
H.S.C (12 th Std)	RNC Arts, JDB Commerce, NSC Science college	Pune University	2014	72.15%
S.C.C (10 th Std)	Kendriya Vidyalaya I.S.P.	C.B.S.E. Board	2012	9.2 CGPA