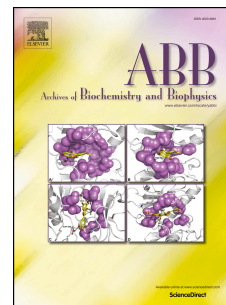


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An insight into fusion technology aiding efficient recombinant protein production for functional proteomics

Dinesh K. Yadav, Neelam Yadav, Sarika Yadav, Shafiul Haque, Narendra Tuteja



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1 **An insight into fusion technology aiding efficient recombinant protein production for**
2 **functional proteomics**

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5 **Authors:** Dinesh K Yadav^{a#}, Neelam Yadav^{b#‡}, Sarika Yadav^c, Shafiul Haque^d and Narendra
6 Tuteja^{e*}

7
8 **Addresses:** ^aDepartment of Botany, University of Allahabad, Allahabad, 211002, India

9 ^bAmity Institute of Biotechnology, Amity University, Haryana, Amity Education
10 Valley, Gurgaon (Manesar) – 122413, India

11 [‡]Current address: Department of Biological Sciences, Sam Higginbottom Institute of
12 Agriculture, Technology and Sciences, (Deemed to be University) Allahabad,
13 211007, India

14 ^cDepartment of Biochemistry, Sri Venkateshawara College, University of Delhi,
15 New Delhi, India

16 ^dResearch and Scientific Unit, College of Nursing & Applied Health Sciences, Jazan
17 University, Jazan-45142, Saudi Arabia

18 ^eAmity Institute of Microbial Technology, Amity University, Sector 125, Noida-
19 201313, Uttar Pradesh, India

20
21 ***Corresponding author: E-mails: ntuteja@amity.edu**

22 **Tel: +91-9811233350**

23 [#]Authors have equal contribution

24
25 **Running Title:** Solubility enhancing and affinity fusion Tags

26 **Keywords:** Affinity tags; fusion protein; proteases; recombinant protein; solubility enhancing tag;
27 SUMO; tag removal; tandem affinity purification

28
29 **Abbreviations:** CBP: Calmodulin-binding peptide; DsbA: Protein disulphide isomerase I; HA:
30 Human influenza hemagglutinin; MBP: Maltose Binding Protein; GST: Glutathione S-transferase;
31 KSI: Ketosteroid isomerase; Mistic: Membrane-Integrating Sequence for Translation of IM
32 protein Constructs; PDZ: first letters of three proteins - Post synaptic density protein (PSD95);
33 Drosophila disc large tumor suppressor (Dlg1); and Zonula occludens-1 protein (ZO1); SUMO:
34 Small Ubiquitin-like Modifier; TrxA: Thioredoxin; NusA: N-utilization substance; TEV: Tobacco
35 Etch Virus

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