

CURRICULAM VITAE

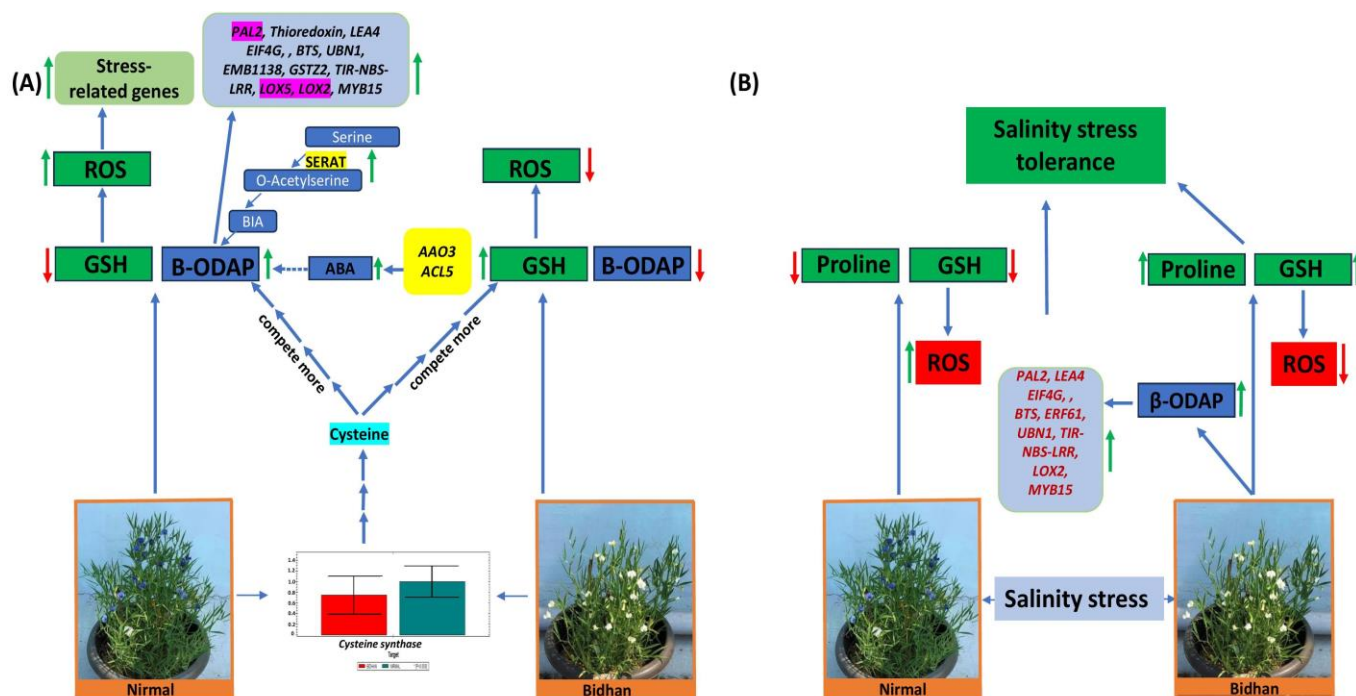


Sl. No.	Particulars	Details	
1.	Name	Dr. Deepak Kumar	
2.	Designation	Assistant Professor	
3.	Department	Department of Biochemistry	
4.	Educational Qualifications	Ph.D. in Plant Biology	
5.	Contact Details	(a) Email id: deepak@ubkv.ac.in , deepukol99@gmail.com, riadeep05@gmail.com (b) Phone/Mobile : +917595050336	
6.	Post held since (year):	7 th January 2020	
7.	Area of Specialization :	Biochemistry and Molecular Biology	
8.	No. of Publications:	Research papers-15 (International Journal -14, National Journal-1)	
9.	Award/Honors:		
Sl. No	Name of Award	Awarding Agency	Year
i	Best oral presentation award	Cooch Behar Association for Cultivation of Agricultural Sciences, UBKV, Pundibari, West Bengal, India	2024
ii	Best oral presentation award	National Agricultural Higher Education Project (NAHEP)	2023
iii	Start-up-grant	Science and Engineering Research Board, Gov. of India	2020
iv	Post Doctoral Research Associateship	NRF, Seoul National University, South Korea	2018
v	B.M Johri Best Poster Award	Plant Tissue Culture Association (India)	2017
vi	National Eligibility Test with Junior Research Fellowship (JRF)	Council of Scientific and Industrial Research (CSIR), India	2011

vii	The Graduate Aptitude Test in Engineering (GATE-Life Science) with 99.37 percentile	Ministry of Human Resource Development (MHRD), India	2011
viii	Junior Research Fellowship (JRF)	Indian Council of Agricultural Research (ICAR), India	2009
ix	National Talent Scholarship	Indian Council of Agricultural Research (ICAR), India	2005

10. Current Research Work:

My current research work is based on the identification and characterization of β -N oxalyl-L- α , β -diaminopropionic acid (biosynthesis related genes in *Lathyrus sativus*. My recent study unraveled various up- and down-stream genes of β -ODAP. Up-stream genes are related to polyamines and ABA biosynthesis which clearly indicate towards their key role in β -ODAP biosynthesis. Down-stream genes are found to be related to phenylpropanoid and jasmonic acid biosynthesis which demonstrate the important role of β -ODAP in regulating these pathways. After getting these information, now we are trying to develop a low β -ODAP and stress tolerant cultivar of *Lathyrus* by gene editing.



11. Publications (Best Eight)

Authors, Year of publication, Title of the paper	Journal Name, Volume and Page No.
D. Kumar , R.S. Chaudhury et al. Identification of genes associated to β -N oxalyl-L- α , β -diaminopropionic acid and their role in mitigating salt stress in a low-neurotoxin cultivar of <i>Lathyrus sativus</i> .	Plant Physiology and Biochemistry , 2024; Vol. 207: 108388.
JH Kim, J. Zhou, D. Kumar et al. SHORTROOT-Mediated Intercellular Signals Coordinate Phloem Development in <i>Arabidopsis Thaliana</i> .	The Plant Cell , 2020; Vol. 32: 1519–1535.
D. Kumar and S. Chattopadhyay. Glutathione modulates the expression of heat shock proteins via BZIP10 and MYB21 transcription factors in <i>A. thaliana</i> .	Journal of Experimental Botany , 2018, Vol. 69: 3729-3743
D. Kumar , S. Hazra et al. Transcriptome analysis of Arabidopsis mutants suggests a crosstalk between ABA, ethylene and GSH against combined cold and osmotic stress.	Scientific Reports , 2016, Vol. 6:36867.
R. Datta, D. Kumar et al. Glutathione regulates ACC synthase transcription via WRKY33 and ACC oxidase by modulating mRNA stability to induce ethylene synthesis during stress.	Plant physiology , 2015, Vol. 69: 2963-2981.
D. Kumar , R. Datta, S. Hazra et al. Transcriptomic profiling of <i>A. thaliana</i> mutant <i>pad2.1</i> in response to combined cold and osmotic stress.	PlosOne , 2015, Vol. 10: e0122690.
D. Kumar , R. Datta, R. Sinha et al. Proteomic profiling of γ -ECS overexpressed transgenic Nicotiana in response to drought stress.	Plant Signaling and Behaviour , 2014, Vol. 9: e29246.
R. Sinha ¹ , D. Kumar ¹ , R. Datta et al. Integrated transcriptomic and proteomic analysis of <i>Arabidopsis thaliana</i> exposed to glutathione unravels its role in plant defense.	Plant Cell Tissue and Organ Culture , 2014, Vol. 120; 975-988 (1 Equal authorship).

12. Project handled as PI and Co-PI (Externally Funded)

Sl. No.	Title of the Project	Role of the Scientist	Funding Agency	Sanction Budget	Sanction Year	Duration
1.	Identification and Characterization of marker gene(s) for β -N oxalyl- L- α , β -diaminopropionic acid production in <i>Lathyrus sativus</i>	PI	SERB, Govt. of India	29.63 Lakh	December, 2020	2 Years