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<b>Designation</b>	:	Assistant Professor	
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<b>Academics</b>	:	<b>Degree</b>	<b>University/ Institution</b>
		PhD	University of Allahabad
		M.Sc.	University of Allahabad
<b>Professional Experience</b>	:	<b>Plant Biochemistry and Molecular Biology</b>	
<b>Awards/ honours/ scholarships/ fellowships</b>	:	<b>Yong Scientist Associate Award-2013</b>	
<b>Area of Specialization</b>	:	Biochemical and Molecular Characterization	
<b>Research Interests</b>	:	Drought and Heat is a major threat to environment. Mine interest lies in find out the genes responsible for Heat and drought tolerance using transcriptomics, proteomics and metabolomics high throughput technologies. Presently working on mapping and introgression of genes for quality traits in brassica by using SSR and SNP markers.	
<b>Projects (in hand &amp; accomplished)</b>	:	1 (One) ✓ Erucic acid profiling and introgression of low erucic acid traits in desirable cultivars of <i>Brassica juncea</i>	
<b>Five best Publications</b>	:	<ol style="list-style-type: none"> <li><b>Gyanendra Kumar Rai</b>, Rajesh Kumar, J. Singh, P. K. Rai and S.K. Rai (2011) Peroxidase, Polyphenol oxidase activity, Protein profile and Phenolics content in tomato cultivars tolerant and susceptible to <i>fusarium oxysporum</i> f.sp.<i>lycopersici</i>. <i>Pakistan Journal of Botany</i>, 43(6): 2987-2990.</li> <li><b>Gyanendra. Kumar Rai</b>, Rajesh Kumar, A. K. Singh, Mathura Rai and A.K. Chaturvedi (2012) Changes in Antioxidant and phytochemical properties of tomato (<i>Solanum lycopersicum</i> L.) under ambient condition. <i>Pakistan Journal of Botany</i>, 44(2): 667-670.</li> <li>Ranjeet R. Kumar, Suneha Goswami, Sushil K. Sharma, Himanshu Pathak, <b>Gyanendra K. Rai</b> and Raj D. Rai (2012) Genome Wide Identification of Target Heat Shock Protein 90 Genes and Their Differential Expression against Heat Stress in Wheat. <i>International Journal of Biochemistry Research &amp; Review</i>, 2(1): 12-30.</li> <li>Ranjeet R. Kumar, Suneha Goswami, Sushil K. Sharma, Khushboo Singh, Kritika A. Gadpayle, Narender Kumar, <b>Gyanendra K. Rai</b>, Manorama Singh and Raj D. Rai (2012) Protection against heat stress in wheat involves change in cell membrane stability, antioxidant enzymes, osmolyte, H<sub>2</sub>O<sub>2</sub> and transcript of heat shock protein. <i>International Journal of Plant Physiology and Biochemistry</i>, 4 (4): 83-91.</li> <li>R.R. Kumar, S. Goswami, S. K. Sharma, K. A. Gadpayle, K. Singh, N. Kumar, <b>Gyanendra K. Rai</b> and R. D. Rai (2013)</li> </ol>	

	<p>Heat Stress Associated Antioxidant Isoenzymes in wheat: Expression and Proteomics. <i>Indian J. Agric. Res.</i>, 47 (4) : 280 – 287.</p> <p>6. R. R. Kumar, S. Goswami, K. Singh, <b>Gyanendra K. Rai</b> and R. D. Rai (2013) Modulation of redox signal transduction in plant system through induction of free radical /ROS scavenging redox-sensitive enzymes and metabolites. <i>Australian Journal of Crop Sciences</i>, 7(11):1744-1751.</p>
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