

RESUME

DR. VIJAY KUMARI

M.Sc. Ph.D NET (CSIR –UGC JRF) & GATE



Summary/Qualifications

- *Strong academic background with **Ph.D** in the area of Plant Biotechnology/ Molecular Biology for low sugar accumulation, after cold storage of potato tubers etc.,*
- *NET (CSIR –UGC JRF) & GATE Qualified.*
- *Nucleotide sequences published in NCBI database and research paper in SCI listed Journals.*
- *Teaching/laboratory experience in handling M.Tech. and M.Sc. students at University Level.*
- *Technical expertise in molecular biology, gene isolation and cloning, Recombinant DNA technology, plant tissue culture, Agrobacterium mediated genetic transformation of plants, generation and screening of transgenic lines and molecular & biochemical analysis of transgenic lines.*
- *Expertise in MS-Office, Power point presentation, GraphPad prism 4, COSTAT, Phylogenetic tree using Mega 5.0 Software, Multiple sequence alignment through ClustalW2 and MultAlin, hydropathy plot, Internet browsing etc.,*

Teaching Experience

- a) Worked as an **Assistant Professor** in the Dept. of Biotechnology, **Sri Guru Granth Sahib World University**, Fatehgarh Sahib, Punjab from August 2013 to till date.
- b) Worked as Lecture in **Govt College Hoshiarpur** Punjab from October 2000 to May 2001.

Publications in the peer-reviewed journals

1. **Kumari V**, Das N (2013) Vacuolar invertases in potato (*Solanum tuberosum* L.): Molecular cloning, characterization, sequence comparison, and analysis of gene expression in the cultivars. Acta Physiologiae Plantarum 35: 2055-2068 (Impact Factor: **1.3**)

2. **Kumari V**, Bansal A, Aminedi R, Taneja D, Das N (2012) Simplified extraction of good quality genomic DNA from a variety of plant materials. African Journal of Biotechnology 11: 6420-6427 (Impact Factor: **0.57**)
3. Bansal A, **Kumari V**, Taneja D, Sayal R, Das N (2012) Molecular cloning and characterization of granule-bound starch synthase I (GBSSI) alleles from Indian potato cultivars, and sequence analysis for detection of cis-regulatory motifs. Plant Cell Tissue & Organ Culture 109: 247-261 (Impact Factor: **3.6**)

Four nucleotide sequences published in **NCBI database**. Details Given Below:

4. **Kumari V** and Das N (2008) *Solanum tuberosum* acid invertase protein mRNA partial cds from CS-1 cultivar (size 2013bp) NCBI published Accession No. **EU622806**
5. **Kumari V** and Das N (2008) *Solanum tuberosum* acid invertase protein mRNA complete cds from CS-1 cultivar (size 1945bp) NCBI published Accession No. **EU622807**
6. Bansal A, **Kumari V**, Sayal R and Das N (2008) *Solanum tuberosum* Granule-bound starch synthase (waxy) gene, DNA partial cds from kufri Chandramukhi (1320 bp) NCBI published Accession No **EU548081**
7. Bansal A, **Kumari V**, Sayal R and Das N (2008) *Solanum tuberosum* Granule-bound starch synthase (waxy) gene, DNA partial cds from kufri Chandramukhi (1461 bp) NCBI published Accession No **EU548082**

Full Papers published in the Conference Proceedings

- 1 Bansal A, **Kumari V**, Taneja D, Das N (2011) Molecular cloning and functional characterization of 5' flanking regions of granule-bound starch synthase I (GBSSI) genes from the Indian potato cultivars. AChemE 2011 Thapar University, Patiala 21-27 **Kumari V**, Bansal A, Aminedi R, Taneja D, Das N (2011) Isolation and quality checking of DNA from different plant materials by employing simple methods. AChemE 2011, Thapar University, Patiala 89-96. **ISBN 000185**
- 2 Bansal A, **Kumari V**, Taneja D, Das N (2011) Molecular cloning and functional characterization of 5' flanking regions of granule-bound starch synthase I (GBSSI) genes from the Indian potato cultivars. AChemE 2011 Thapar University, Patiala 21-27. **ISBN 000185**
- 3 **Kumari V**, Das N (2016) Studies on the sugar content and soluble acid invertase activity in the potato tubers. Recent Advances in emerging Technology, SGGSW University, Fatehgarh Sahib Pb.255-266. **ISBN 978-81-929890-1-3**
- 4 **Kumari V** (2016) Overview on sucrose-6-phosphate phosphatase in cold stored potato tuber. Recent Advances in emerging Technology, SGGSW University, Fatehgarh Sahib Pb.245-254. **ISBN 978-81-929890-1-3**

Achievements

1. Bansal A, Bansal S, **Kumari V**, Das N (2004) A simple and efficient method for the isolation of the RNA from potato tubers. Bioconvergence-2004, Thapar Institute of Engineering and Technology, Patiala

2. Bansal A, **Kumari V**, Kumara K, Das N (2008) Regeneration studies from internodal stem explants of important Indian potato cultivars during *Agrobacterium*-mediated transformation. 11th Punjab Science Congress-2008, Thapar University, Patiala
3. Bansal A, **Kumari V**, Taneja D, Kapoor S, Das N (2008) Molecular approaches for isolation and characterization of the genomic clones corresponding to starch-granule-bound protein (R1 protein), soluble acid invertase, sucrose-6-phosphate synthase and 5' flanking regions of granule-bound-starch synthase (GBSS) gene from the Indian potato cultivars. 11th Punjab Science Congress-2008, Thapar University, Patiala
4. **Kumari V** and Das N “**RACES-2015**” in Multani Mal Modi College, Patiala from January 30-31, 2015. Paper presented on “Genomic DNA cloning and characterization studies on soluble acid invertase in the potato cultivars(s)”

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