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***De novo* RNA seq assembly and annotation of important legume-*Vicia sativa* L. (SRR403901)**

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Vicia sativa L. which is also known as common vetch; is a nitrogen fixing leguminous plant in the family Fabaceae. This study is focus on RNA-seq of *Vicia sativa* L. of SRR403901 from NCBI database for *de novo* Transcriptome analysis. A total of 12.4 million single reads were generated with N50 of 588 bp. Sequence assembly contained total 22748 contigs which is further search with known proteins, a total of 7652 genes were identified. Among these, only 500 unigenes were annotated with 18761 gene ontology (GO) functional categories and sequences mapped to 122 pathways by searching against the Kyoto Encyclopedia of Genes and Genomes pathway database (KEGG). These data will be useful for gene discovery and functional studies and the large number of transcripts reported in the current study will serve as a valuable genetic resource of the *Vicia sativa* L.

Biography

Hetalkumar J Panchal is currently working as an Associate Professor at Gujarat Agricultural Biotechnology Institute, Navsari Agricultural University (NAU), Surat, Gujarat (India). He has published more than 35 papers in national/international Journals and more than 30 papers in national and international conferences & seminars. He worked as Faculty of Bioinformatics (10 years) at MSc (Bioinformatics) course at Department of Computer Science, Sardar Patel University, Vallabh Vidyanagar, Gujarat (India). He is guiding 3 PhD students and has been a mentor of the more than 25 dissertation thesis. He has delivered so many keynote lectures /expert lectures/invited talks. He serves as a visiting faculty/external examiner at various universities. He is associated with so many national and international journals as member of editorial board and as reviewer. He has received Best Paper Award in faculty category at National Conference on "Advanced Data Computing Communications & Security". He is a member of Indian Science Congress Association (ISCA) and a Life Member of Computer Society of India.

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