

Biochemical comparison of two cytotypes (diploid & tetraploid) of *Physalis angulata* L., an important medicinal plant

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Two cytotypes of *Physalis angulata* L. I.E. diploid and tetraploid was studied meiotically and comparative biochemical analysis was performed for different parameters. *Physalis angulata* L. is medicinally important plant which is used in both traditional and medicinal system. Protein analysis was done: Different parts (fruit, leaf, stem and root) of *Physalis angulata* L. (diploid & tetraploid) and *Solanum xanthocarpum* were investigated for total protein content by following the standard methodology i.e. Lowry et al., 1951. Elemental analysis was done: Fruit, leaf, stem and root of *Physalis angulata* L. (diploid & tetraploid) were analyzed for different minerals with wavelength dispersive x-ray fluorescence. Fatty acid analysis was done: Different plant parts (fruit, leaf, stem and root) of *Physalis angulata* L. (diploid & tetraploid) were studied for different fatty acids by following the standard methodology given by S Ranganna. In sugar profile: Fruit, leaf, stem and root of *Physalis angulata* L. (diploid & tetraploid) were analyzed for different sugars by following the standard protocol of AOAC. Detection of some of the phenolic components of *Physalis angulata* L. was done.

Biography

Raman Preet is a Research Scholar under the supervision of Dr. R C Gupta, in field of Cytogenetics. She completed her MPhil. She has attended national and international conferences and published three international papers out of which one is communicated.

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