

# Plant Genomics

July 14-15, 2016 Brisbane, Australia

## Screening and bioactivity measurement of high altitude medicinal plants

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Ten different medicinally important plants collected from Khaptad National Park were found to have high antimicrobial, cytotoxic and high antioxidant properties. Among the samples *P. edgeworthii* were found to exhibit greatest antimicrobial properties with ZOI-10 mm at 200 mg/ml extract concentration against *S. aureus* which is in accordance of their traditional uses. *A. spectabilis* were found with highest cytotoxic property with LC50 value 6.14 ppm, among *B. diffusa*, *T. foliolosum* and *E. strobilifera* 13.59 ppm, 64.50 ppm, 223.46 ppm respectively. The high antioxidant properties observed in the plants *E. strobilifera* (5.46 µg per ml) using DPPH bioassay method indicate their anticancer properties. A series of research is thought to be continued for the future which can lead for the development of drugs.

### Biography

Deepak Sharma has completed his Masters in Biotechnology from Rajasthan University with Silver Jubilee Scholarship of Government of India (2008-2010) and pursuing Doctoral studies from Kathmandu University School of Science from 2014 to till date. He is also a Research Assistant of Seoul National University's funded project of KOIKA AP1 in supervision of Professor Dr. Janardan Lamichanne at Kathmandu University.

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