PUBLICATIONS AND PRESENTATIONS

LIST OF PUBLICATIONS

Publications from the thesis:

- **Ashutosh Pathak** and Aruna Joshi (2017) Indirect organogenesis from leaf explants of *Hemidesmus indicus* (L.) R. Br.: An important medicinal plant. *Plant Biosystems* 151(1): 1-5.
- **Ashutosh Pathak,** Aruna Joshi, Neeta Shrivastava and Poojadevi Sharma (2017) Regeneration and chemical profiling in *Hemidesmus indicus* (L.) R. Br. *South African Journal of Botany* 113: 413-420.

Other publications:

Book:

- **Ashutosh Pathak** and Aruna Joshi (2014) Studies on two medicinally important plants: Regeneration and rooting aspects. Lambert Academic Publishing, Germany (ISBN: 978-3-659-24302-8).

Book chapters:

- Aruna G. Joshi and **Ashutosh R. Pathak** (2019) EST (Expressed Sequence Tag): A technique for identification of plant secondary metabolite genes. In: Plant and Human Health, vol. 2: Phytochemistry and Molecular Aspects (Eds. Munir Ozturk and Khalid Rehman Hakeem). Springer International Publishing (Springer Nature), Switzerland (Accepted) (ISBN: 978-3-030-03343-9).
- **Ashutosh Pathak** and Aruna Joshi (2017) Somaclonal variation. In: Plant Biotechnology, vol. 1: Principles, Techniques and Applications (Eds. Bishun Deo Prasad, Sangita Sahni, Prasant Kumar and Mohammed Wasim Siddiqui). Apple Academic Press (CRC Press), New York, USA, pp. 185-213 (ISBN: 9781771885805).

Research papers:

- **Ashutosh Pathak**, Mitesh Dwivedi, Naresh C. Laddha, Rasheedunnisa Begum and Aruna Joshi (2013) Detection of somaclonal variants using RAPD marker in *Bacopa monnieri* and *Tylophora indica*. *Journal of Agricultural Technology* 9(5):1253-1260.
- **Ashutosh Pathak**, Mitesh Dwivedi, Naresh Laddha, Rasheedunnisa Begum and Aruna Joshi (2013) DNA isolation from fresh leaf tissue of *Tylophora indica* and *Bacopa monnieri*. *Environmental and Experimental Biology* 11:69-71.

- Aruna G. Joshi, **Ashutosh R. Pathak**, Asha M. Sharma and Swati Singh (2010) High frequency of shoot regeneration on leaf explants of *Bacopa monnieri*. *Environmental and Experimental Biology* 8:81-84.

LIST OF PRESENTATIONS

From thesis:

- **Ashutosh Pathak**, Aruna Joshi, Neeta Shrivastava and Poojadevi Sharma, 'Efficiency of *Hemidesmus indicus* (L.) R.Br. nodal explant to regenerate shoots and chemical profiling of shoots' in International conference', in 4th International congress of the society for ethanopharmacology, India: "Healthcare in 21st century: Perspectives of ethanopharmacology and medicinal plant research" at C.G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Gujarat (23rd-25th February, 2017).
- **Ashutosh Pathak** and Aruna Joshi, 'Regeneration in *Hemidesmus indicus* (L.) R.Br. utilizing *in vitro* nodal explant' in National seminar on "Impact of climate change on biodiversity-II" at The M.S. University of Baroda, Vadodara, Gujarat (12th March, 2016) (1st Prize).
- **Ashutosh Pathak** and Aruna Joshi, '*In vitro* shoot regeneration of *Hemidesmus indicus* (L.) R.Br. from leaf explant' in International conference on "Current status, opportunities and challenges in medicinal plants and natural products research" at C.G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Gujarat (24th-26th September, 2014).
- Aruna Joshi and **Ashutosh Pathak**, 'Regeneration studies in *Hemidesmus indicus* using nodal explants' in National conference on "Current trends in science and technology" at Pune University, Pune, Maharastra (28th-30th November, 2013).
- **Ashutosh Pathak** and Aruna Joshi, 'Establishment of shoot cultures in *Hemidesmus indicus* (L.) R.Br. using nodal explants' in 35th all India botanical conference and National symposium on "Plant and microbes for the betterment of mankind in the changing the climate" at The M.S. University of Baroda, Vadodara, Gujarat (8th-10th December, 2012).

Other presentations:

- Swati Patel, **Ashutosh Pathak** and Aruna Joshi, 'Micropropagation in *Eclipta alba* (L.) Hassk.' in International symposium on "Conservation of angiosperm diversity:

Hidden treasure of today and tomorrow" at The M.S. University of Baroda, Vadodara, Gujarat (29th-31st October, 2018).

- Swati Patel, **Ashutosh Pathak** and Aruna Joshi, '*In vitro* regeneration in *Telosma cordata* (Burm. F.) Merrill' in National seminar on "Impact of climate change on biodiversity-III" at The M.S. University of Baroda, Vadodara, Gujarat (29th November, 2017).
- Swati Patel, **Ashutosh Pathak** and Aruna Joshi**, '**Effect of cytokinins, explant age and its orientation on shoot regeneration in *Tylophora indica* (Burm. F.) Merrill. leaf explant', in 4th International congress of the society for ethanopharmacology, India: "Healthcare in 21st century: Perspectives of ethanopharmacology and medicinal plant research" at C.G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Gujarat (23rd-25th February, 2017).
- Shruti Patel, **Ashutosh Pathak** and Aruna Joshi, 'Effect of developmental age of leaf on shoot regeneration in *Bacopa monnieri* (L.) Wettst.' in National seminar on "Impact of climate change on biodiversity-II" at The M.S. University of Baroda, Vadodara, Gujarat (12th March, 2016) (2nd Prize).
- Minhaz Sandhi, **Ashutosh Pathak** and Aruna Joshi, 'Effect of cytokinins on shoot regeneration from leaf explants of *Solanum nigrum* L.' in National seminar on "Impact of climate change on biodiversity-II" at The M.S. University of Baroda, Vadodara, Gujarat (12th March, 2016).
- **Ashutosh R. Pathak** and Aruna G. Joshi, 'The potency of *Bacopa monnieri* (L.) Wettst. microshoots to form roots in natural planting substrates' in Regional science congress on "Science for shaping the future of India" at The M.S. University of Baroda, Vadodara, Gujarat (15th and 16th September, 2012).
- Asha M. Sharma, **Ashutosh R. Pathak** and Aruna G. Joshi, 'Effect of carbon source on shoot bud regeneration from leaf explant of *Portulaca oleracea* L.' in National symposium on "Medicinal plants- A promising resource of the country" at Veer Narmad South Gujarat University, Surat, Gujarat (9th and 10th June, 2010) (1st prize).