

## REFERENCES

## REFERENCES

- Ari, E., Djapo, H., Mutlu, N., Gurbuz, E. and Karaguzel, O. (2015). Creation of variation through gamma irradiation and polyploidization in *Vitex agnus-castus* L. *Scientia Horticulturae*, 195, 74–81.
- Atichart, P. (2013). Polyploid induction by colchicine treatments and plant regeneration of *Dendrobium chrysotoxum*. *Thai Journal of Agricultural Science*, 46(1), 59-63.
- Azmi, K., Sukma, D., Aziz, A. and Syukur. M. (2016). Polyploidy induction of moth orchid (*Phalaenopsis amabilis* (L.) Blume) by colchicine treatment on pollinated flowers. *The Journal of Agricultural Sciences*, 11, 62-73.
- Baro, D., Bawri, A., Adhikari, A. and Borthakur, S.K. (2019). Orchid flora of Manas National Park, India. *Asian Journal of Conservation Biology*, 8(2), 143-148.
- Cassel A.C. and Curry R.F. (2001). Oxidative stress and physiological, epigenetic and genetic variability in plant tissue culture: implications for micropropagators and genetic engineers. *Plant Cell, Tissue and Organ Culture*, 64, 144-157.
- Chen, W.H. and Tang, C.Y. (2018). A protocol for the induction of polyploids in *Phalaenopsis* orchids by in vitro method without using anti-microtubule agents. orchid propagation: From laboratories to greenhouses -methods and protocols, 317-330.
- Chen, X., Cribb, P.J. and Gale S.W. (2009). *Eulophia*. Flora of China, 25, 253.
- Chen, X., Liu, Z., Zhu, G., Lang, K., Ji, Z., Luo, Y., Jin X., Cribb, J., Wood, J., Gale, S., Ormerod, P., Vermeulen, J., Wood, H., Clayton, D. and Bell, A. (2009). *Eulophia bicallosa*. Flora of China, 25, 254.

- Choopeng, S., Te-chato, S. and Khawnium, T. (2019). Effect of colchicine on survival rate and ploidy level of hybrid between *Dendrobium santana* × *D. friedericksianum* orchid. *International Journal of Agricultural Technology*, 15(2), 249-260.
- Chung, H., Shi, S., Huang, B. and Chen, J. (2017). Enhanced agronomic traits and medicinal constituents of autotetraploids in *Anoectochilus formosanus* Hayata, a top-grade medicinal orchid. *Molecules*, 22, 1-13.
- Danial, A.Q.M. and Pradip, R.C. (2023). StatPearls. United state: StatPearls Publishing.
- Darzynkiewicz, Z. and Juan, G. (1997). DNA content measurement for DNA ploidy and cell cycle analysis. *Current Protocols in Cytometry*, 7, 1-24.
- Decruse, W., Reny, N., Shylajakumari, S. and Krishnan, N. (2013). In vitro propagation and field establishment of *Eulophia cullenii* (Wight) Bl., a critically endangered orchid of Western Ghats, India through culture of seeds and axenic seedling-derived rhizomes. *In Vitro Cellular & Developmental Biology – Plant*, 49, 520-528.
- Department of Environment and Science, Queensland (2013) Rare or threatened plants of Hinchinbrook Island National Park, WetlandInfo website, accessed 30 October 2023. Available at: <https://wetlandinfo.des.qld.gov.au/wetlands/facts-maps/wildlife/?ArealD=national-park-hinchinbrook-island&Kingdom=plants&SpeciesFilter=RareOrThreatened>
- Eng, W. and Ho, W. (2019). Polyploidization using colchicine in horticultural plants: A review. *Scientia Horticulturae*, 246, 604-617.
- Fang, J. and Berrientos B.A.B. (2019). Influence of photoperiod and culture medium on the speed of asymbiotic seed germination and seedling development in *Spathoglottis plicata*. *HortScience*, 54(9), 1570-1575.
- Frank, M.H. and Chitwood, D.H. (2016). Plant chimeras: The good, the bad, and the “Bizzaria.” *Developmental Biology*, 419(1), 41–53.

- Gantait, S., Mandal, N., Bhattacharyya, S. and Das, P.K. (2011). Induction and identification of tetraploids using in vitro colchicine treatment of *Gerbera jamesonii* Bolus cv. *Sciella*. *Plant Cell, Tissue and Organ Culture*, 106(3), 485-493.
- Gola, E.M., Zolubak, E., Lobas, L. and Jakubska-Busse, A. (2019). Taxonomic treatment of chimeras in Orchids. *Annales Botanici Fennici*, 1(56), 395-402.
- Hoang, T. K., Hwang, Y.-J., and Lim, J.-H. (2020). Chemical polyploidization of *Chrysanthemum boreale*. *Plant Cell, Tissue and Organ Culture*, 140(3), 677-683.
- Huy, N.P., Tam, D.T.T., Luan, V.Q., Tung, H.T., Hien, V.T., Ngan, H.T.M., Duy, P.N. and Nhut, D.T. (2019). In vitro polyploid induction of *Paphiopedilum villosum* using colchicine. *Scientia Horticulturae*, 252, 283-290.
- Jan, T., Gul S., Khan A., Noor A., Amin H., Bibi S., Khan A.R., Ahmad M.S., Azm R. and Ullah H. (2023). Range of factors in the reduction of hyperhydricity associated with in vitro shoots of *Salvia santolinifolia* Bioss. *Brazilian Journal of Biology*, (83), 1-8.
- Johnson, T., Stewart, S., Dutra, D., Kane, M. and Richardson, M. (2007). Asymbiotic and symbiotic seed germination of *Eulophia alta* (Orchidaceae) - Preliminary evidence for the symbiotic culture advantage. *Plant Cell, Tissue and Organ Culture*, 90, 313-323.
- Li, C., Dong, N., Zhao, Y., Wu, S., Liu, Z. and Zhai, J. (2021). A review for the breeding of orchids: Current achievements and prospects. *Horticultural Plant Journal*, 7(5), 380-392.
- Kauth, P.J., Dutra, D., Johnson, T.R., Stewart, S.L., Kane, M.E. and Vendrame, W. (2014). Techniques and applications of in vitro orchid seed germination. *Floriculture, Ornamental and Plant Biotechnology*, 5, 375-391.

- Iannicelli, J., Guariniello, J., Tossi, V.E., Regalado, J.J., Di Ciaccio, L., Van Baren, C.M., Pitta Alvarez, S.I. and Escandon, A.S. (2020). The “polyploid effect” in the breeding of aromatic and medicinal species. *Scientia Horticulturae*, 260, 1-10.
- Mo, L., Chen, J., Chen, F., Xu, Q., Tong, Z., Huang, H. and Lin, E. (2020). Induction and characterization of polyploids from seeds of *Rhododendron fortunei* Lindl. *Journal of Integrative Agriculture*, 19(8), 2016–2026.
- Nanekar, V., Shriram, V., Kumar, V. and Kavi Kish, B. (2014). Asymbiotic in vitro seed germination and seedling development of *Eulophia nuda* Lindl., an endangered medicinal orchid. *Proceedings of the National Academy of Sciences*, India - Section B: Biological Sciences, (84), 837-846.
- Narkhede, A., Mahajan, M., Singh, E., Harsulkar, A. and Jagtap, S. (2016). Antioxidant activity of fourteen *Eulophia* species traditionally known as amarkand. *International Journal of Pharmacy and Pharmaceutical Sciences*, 8, 313-316.
- Niazian, M. and Nalouisi, M. (2020). Artificial polyploidy induction for improvement of ornamental and medicinal plants. *Plant Cell, Tissue and Organ Culture*, 142, 447-469.
- Malmgren, S. (1996). Orchid propagation: theory and practice. In Allen C (ed.), North American native Terrestrial orchids: propagation and production. *Symposium conducted at the meeting of North American Native Terrestrial Orchid Conference*, Germantown, Maryland.
- McAlister, G. and Staden, V. (1998). In vitro culture of *Eulophia* species. *South African Journal of Botany*, (64), 264-266.
- Murashige, T. and Nakano, R. (1966). Tissue culture as a potential tool in obtaining polyploid plants. *Journal of Heredity*, 57, 114-118
- Murashige, T. and Skoog, F. (1962). A revised medium for rapid growth and bio-assays with tobacco tissue cultures. *Physiologia Plantarum*, 15(3), 473-497.

- Quiroz, K., Saavedra, J., Vogel, H., Verdugo, G., Caligari, P.D.S. and Gonzales, R.G. (2017). In vitro asymbiotic germination for micropropagation of the recalcitrant terrestrial orchid *Chloraea crispa*. *Application in Plant Science*, 5(8), 1-9.
- Sattler, C., Carvalho, R. and Clarindo, R. (2015). The polyploidy and its key role in plant breeding. *Planta*, 2, 281-296.
- Sharma, S.K. and Mukai, Y. (2015). Chromosome research in orchids: current status and future prospects with special emphasis from molecular and epigenetic perspective. *The Nucleus*, 58(3), 173–184.
- Stewart, L. and Zettler, W. (2002). Symbiotic germination of three semi-aquatic rein orchids (*Habenaria repens*, *H. quinquiseta*, *H. macroceratitis*) from Florida. *Aquatic Botany*, 72, 25-35.
- Taylor, T.N., Taylor, E.L. and Krings, M. (2009). Paleobotany (Second Edition). The Biology and Evolution of Fossil Plants. *United States: Academic Press*.
- Ueno K., Cheplick S. and Shetty K. (2001) Reduced hyperhydricity and enhanced growth of tissue culture-generated raspberry (*Rubus* sp.) clonal lines by *Pseudomonas* sp. isolated from oregano. *Process Biochemistry*, 33, 441-445.
- Vacin, F. and Wen, W. (1949). Some pH Changes in Nutrient Solutions. *Botanical Gazette*, 110, 605-613.
- Van Vuuren, R., Visagie, M., Theron, A. and Joubert, A. (2015). Antimitotic drugs in the treatment of cancer. *Cancer Chemother Pharmacol*, 76, 1101-1112.
- Yildiz, M., Ozcan, S.F., Kahramanogullari, C.T., and Tuna, E. (2012). The effect of sodium hypochlorite solutions on the viability and in vitro regeneration capacity of the tissue. *The Natural Products Journal*, 2(4), 328–331.
- Zahumenická, P., Fernández, E., Šedivá, J., Žiarovská, J., Ros-Santaella, J. L., Martínez-Fernández, D. and Milella, L. (2017). Morphological, physiological and genomic comparisons between diploids and induced tetraploids in *Anemone sylvestris* L. *Plant Cell, Tissue and Organ Culture*, 132(2), 317–327.

- Zhang, X. and Gao, J. (2020). Colchicine-induced tetraploidy in *Dendrobium cariniferum* and its effect on plantlet morphology, anatomy and genome size. *Plant Cell, Tissue and Organ Culture*, 144, 409-420.
- Zonneveld, B.J.M. and Pollock, W.I. (2012). Flow cytometric analysis of somaclonal variation in lineages of *Hosta* sports detects polyploidy and aneuploidy chimeras. *Plant Biology*, 14(6), 972–979.