

- Name - **Dr. Vera Yurngamla Kapai**
- Department- Botany
- Designation - Assistant Professor
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Educational Qualifications

Qualification	Title/Course	University	Year
Undergraduate	B.Sc. Botany (H)	Maitreyi College, University of Delhi	2000-2004
Postgraduate	M.Sc. Botany	Hindu College, University of Delhi	2006
M.Phil.	Plant Tissue Culture	Department of Botany, University of Delhi	2007
Ph.D.	*	Department of Botany, University of Delhi	2013

* *In Vitro* Plantlet Regeneration and Acclimatization of Orchids: *Cymbidium Lunalin* 'Atlas', *Thunia venosa* Rolfe and *Vanda testacea* (Lindl.) Reichb. f. and Application of Thin Cell Layer Technique in the Hybrid.

Area of specialization: Plant tissue culture

Subjects taught:

Mycology and Plant Pathology; Plant Systematics; Plant Resource Utilization; Phycology and Microbiology; Reproductive Biology of Angiosperms; Plant Biotechnology; Biodiversity-Microbes.

Publications:

Kapai, V.Y.; Kapoor, P.; Guha, S. & Rao, I.U. 2010. *In vitro* propagation for conservation of rare and threatened plants of India: A review. International Journal of Biological Technology **1(2)**: 1-14.

Vyas, S.; **Kapai, V.Y.**; Kapoor, P.; Guha, S. & Rao, I. U. 2012. *In vitro* plantlet regeneration from protocorms of *Dendrobium lituiflorum* Lindl. and *Cymbidium bicolor* Lindl. and their acclimatization: effect of salts, sucrose and banana extract. The Journal of Horticultural Science and Biotechnology **87 (5)**: 485 - 492.

Pandey née Kapoor, P; **Kapai, V.Y.**; Muivah, G. & Rao, I.U. 2013. Physiological ageing during prolonged *in vitro*-culture of multiple shoots of *Bambusa bambos* var. *gigantea* Bennet and Gaur. The Journal of Horticultural Science and Biotechnology **88 (4)**: 476-482.

e-lessons:

Muivah, G & **Kapai, V.Y.** 2014. Zygotic and Somatic embryogenesis. Prepared for Plant Biotechnology, MHRD Project "National Mission on Education Through ICT".

Muivah, G.; **Kapai, V.Y.** & Chugh, S. 2015. Totipotency and organogenesis. Prepared for Plant Biotechnology, MHRD Project "National Mission on Education Through ICT".

Conference Presentations:

Vyas, S.; **Kapai, V.Y.**; Guha, S. & Rao, I.U. 2009. Rapid micropropagation of *Cymbidium* hybrids (Orchidaceae) by using transverse thin cell layer technology. 30th Annual Meeting of Plant Tissue culture Association (India) & National Symposium on “Plant propagation, conservation, modification and characterization” Institute of Himalayan Bioresource Technology (CSIR), Palampur (HP), April 3-4 2009.

Vyas, S.; Chugh, S.; **Kapai, V.Y.** & Rao, I.U. 2010. Assessing potential of explants for mass scale propagation of orchid hybrids and electron microscopy analysis to study changes accompanying acclimatization. National conference on Orchids: Systematics and Diversity Analysis for conservation and Sustainable Utilization at G.B Pant Institute of Himalayan, Environment and Development, Almora (Uttarakhand), March 19-21, 2010 (delivered oral presentation).

Kapai, V.Y.; Vyas, S.; Kapoor, P.; Guha, S. & Rao, I. U. 2011. *In vitro* mass scale propagation using thin cell layers from protocorm-like bodies of commercially important *Cymbidium* hybrids by using coconut water. *In* Abstracts National Symposium on “Recent Advances in Plant Tissue Culture and Biotechnological Researches in India” & XXII Annual Meet of Plant Tissue Culture Association (India) at M.N. Institute of Applied Sciences, Bikaner, Rajasthan, February 4-6, 2011, p 38.

Guha, S.; **Kapai, V.Y.**; Kumar, K. & Rao, I.U. 2011. Rapid regeneration of *Phalaenopsis amhitrita* shoot buds from epidermal peel culture *in vitro*. *In* Abstracts National Consultation for Production & Utilisation of Orchids, NRC for Orchids (ICAR), Pakyong, Sikkim pp. 19-21, February, p 103.

Kapai, V.Y.; Jaggi, M.; Guha, S. & Rao, I.U. 2011. *In vitro* propagation and acclimatization of an important medicinal orchid *Cymbidium aloifolium* (L.) Swartz by using growth regulators and a natural additive. *In* Abstracts National Conference on Medicinal Orchids: Sustainable use and Benefit Sharing for Rural and Tribal Communities at Panjab University, Chandigarh (March 29-30, 2011).

Kapai, V.Y.; Vyas, S.; Guha, S.; Kapoor, P. & Rao, I.U. 2011. Effect of banana extract on the growth and development of plantlets from protocorms of *Cymbidium* spp and *Dendrobium lituiflorum* Lindl.” *In* Abstracts 4th International Orchid Conservation Congress (IOCC4), Hluboká, Czech Republic (29th May to 6th June).

Kumar, S.; **Kapai, V.Y.** & Rao, I.U. 2012. *In vitro* propagation of safflower: a multipurpose oil seed crop. *In* Abstracts National Seminar on Plant Cell, Tissue and Organ Culture: Emerging Trends. Aligarh Muslim University, Aligarh, India, March 10-11.

Kapai, V.Y. & Rao, I.U. 2012. Rapid micropropagation of *Cymbidium* Lunalvin ‘Atlas’ (Orchidaceae) by using transverse thin cell layer technology. *In* International Conference on Advances in Plant Sciences, Chiang Mai, Thailand, 14th – 18th, November.