

Résumé of Dr. Alemwati Pongener



1. Personal Details

Name	:	Alemwati Pongener
Designation & Discipline	:	Scientist (Horticulture – Fruit Science)
Correspondence address (preferably official)	:	National Research Centre on Litchi (ICAR)
City	:	Muzaffarpur
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2. Qualifications (Highest degree)

	Year	Institute	Subject (Specialization)
Ph.D.	2013	Indian Agricultural Research Institute, New Delhi	Post Harvest Technology
M.Sc.	2009	Punjab Agricultural University, Ludhiana, Punjab	Pomology
B.Sc.	2007	Dr. Y.S. Parmar University of Horticulture and Forestry, Solan, Himachal Pradesh	Horticulture

3. Research Projects

I am currently involved in the following ongoing projects at the centre

1. Standardization of maturity standards, harvesting, and postharvest handling techniques for litchi fruits (Co-PI)
2. Investigation and management of postharvest losses in litchi (Co-PI)
3. Standardization of processing and value addition techniques in litchi (Co-PI)
4. Postharvest management with respect to pericarp browning and fruit decay (Co-PI)
5. DBT-funded Mango project (Associate)

4. Publications (Important research publications)

1. **Alemwati Pongener**, Vidyaram Sagar, Ram Krishna Pal, Ram Asrey, Ram Roshan Sharma, Sanjay Kumar Singh. (2014). Physiological and quality changes during postharvest ripening of purple passion fruit (*Passiflora edulis* Sims). **Fruits**. **69**(1): 19-30.
2. **Alemwati Pongener**, B.V.C. Mahajan, and Harminder Singh. (2011). Effect of different packaging films on storage life and quality of peach fruits under cold storage conditions. **Indian Journal of Horticulture** **68**(2): 240-245.
3. R.R. Sharma and **Alemwati Pongener**. (2010). Natural products for postharvest decay control in horticultural produce: a review. **Stewart Postharvest Review** 4:1, 1-9.
4. **Alemwati Pongener**, B.V.C. Mahajan, and Harminder Singh. (2010). Effect of packaging films on shelf life of peach fruits under supermarket conditions. **Journal of Research Punjab Agricultural University** **47** (3&4): 149-153.

6. Current Area of Research

Currently, I am involved in development of appropriate postharvest management protocols for litchi, and studying the supply chain of litchi to identify the control points for reducing postharvest losses. Under the flagship project, I am working towards developing a better understanding of the physiological and biochemical factors associated with pericarp browning in litchi, and the ways and means to overcome it especially with regard to use of safer alternatives to fumigation with sulphur-dioxide. Metabolic profiling, including aroma volatiles,

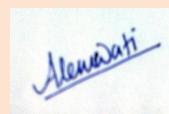
of different litchi cultivars is being carried out, and I am also associated with my senior colleague for developing processing protocols for various value-added products of litchi.

7. Work Experience & Interests

My career interest is in postharvest biology and technology of horticultural crops. I would like to devote my time towards developing affordable and effective technologies to minimize losses postharvest, to make every harvest count. I am keenly interested for collaborative work with national and international researchers for scientific pursuit in this field of research.

8. Membership of Professional Societies

- Life member of Horticultural Society of India, New Delhi since 2009.



Signature of the Scientist