

## Theses submitted by grad students in IDRC Project # 107847 “Enhanced Preservation of Fruits Using Nanotechnology”

### MS Theses:

1. Amrena Jan, N. 2015. Development of hexanal loaded electrospun polymer matrix to extend shelf-life of mango (Dr. S. Ganapthy) - Defended
2. Vivekumar, R. 2015. Hexanal and beta cyclodextrin complex for slow release of hexanal to enhance shelf-life of mango (Dr. S. Marimuthu) - Defended
3. Shanumugapriya, R. 2016. Development of Electrospun fibre matrix to extend shelf-life of fruits (Dr. K.S. Subramanian) - Defended
4. Jincy, M. 2016. Effects of hexanal application on oxidants and anti-oxidants levels in mango leaves and fruits (Dr. M. Djanaguiraman) - Defended
5. Ajith, T. 2016. Enhanced shelf-life of mango through hexanal dipping (Dr. T.N. Balamohan) - Defended
6. Kanmani, V. 2016. Effect of hexanal on extending shelf-life of banana (Dr. I. Muthuvel) – Defended
7. Chitra, R. (2017) Post-Harvest Fruit Quality and Volatile Organic Compounds in banana (Chairman: Dr. S. Haripriya) - Defended.
8. Nandhini, P. (2017) EFF to extend Shelf-life of Guava (*Psidium guajava* L.). (Chairman: Dr. T. N. Balamohan) - Defended.
9. Tamizheezham, N. (2017) Hexanal Treatment for Enhancing the Shelf-life of Grapes (*Vitis vinifera* L.). (Chairman: Dr. I. Muthuvel) Defended..
10. Jayanthi, R. (2017) MOF as a Delivery System for Hexanal to Enhance the Shelf- life of fruits (Chairman: Dr. S. Marimuthu) - Submitted
11. Preetha, S. (2017) Nano-matrix to Extend the Shelf-life of Fruits. (Chairman: Dr. M. Kannan) Submitted.
12. Katrina Ammon Aguillera (2017) A Value Chain Analysis of Selected Fruits in Trinidad and Tobago: Mango, Papaya and Banana (Supervisor - Dr. Sharon Hutchinson)- Submitted and graduated
13. Jash. A. 2017. Triggered Release of hexanal and benzaldehyde from their precursors encapsulated in poly(lactic acid) and ethylcellulose carriers (Dr. Loong Tak Lim)
14. Robert John Ouko (2017) Efficacy of Hexanal as a Post-harvest Preservative of Papaya Fruit. (Supervisors: M.J.Hutchinson, Jane Ambuko and Willis Owino.Robert.)
15. Moses Peter Subert (2017) Perceptions of Enhanced Freshness Formulation technologies and adoption decisions among smallholder banana farmers in Morogoro, Tanzania (Prof. Freddy Kilima)
16. Shi. 2018. Activated release of salicylaldehyde and hexanal by encapsulating imidazolidine precursor in ethyl cellulose-poly(ethylene oxide) electrospun fibers and its application on delaying the ripening of fruits (expect to defend MSc. thesis in Fall 2018)
17. S. Krishna Kumar (2018) Enhancement of post-harvest shelf life of nectarines (*Prunus persica* (L.) Batsch var. *nectarina*) using hexanal ( M.Sc. Spring 2018)

### PhD Thesis:

1. Mohan, C. 2017. Biosafety of hexanal formulation at different trophic levels (Dr. R. Sridharan) Submitted.