# Bio-data

**Name:** Dr. Jyothi Abraham

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**Date of Birth:** 13/06/86

## Educational Qualification

| Qualification | Year | Board of examination | Percentage |
|---|---|---|---|
| SSLC | 2001 | Board of higher secondary examination | 63 |
| Plus Two | 2003 | Vocational Higher secondary Examination | 90 |
| BSc in Botany | 2006 | MG University Kottayam | 83 |
| MSc in Botany | 2008 | MG University Kottayam | 80 |
| PhD | 2016 | Bharathiar University, Coimbatore | |

## Experiences

**Teaching Experience**: 6 months in St. Thomas College Pala, Kottayam
3 years in St. Dominic's college Kanjirappally, Kottayam
2 years in St. George's College Aruvithura, kottayam

**Research Experience**: 6 years

# Honors and Awards

**2012 Third prize:** Awarded for the best poster presentation

# Publications

## Book Chapters

1. **Abraham J** and Thomas DT (2016) Recent Advances in Asteraceae Tissue Culture. Plant Tissue Culture: Propagation, Conservation and Crop Improvement (pp.161-195) (Book). Springer.
2. **Abraham J** and Thomas DT (2016). Hairy root culture for the production of useful secondary metabolites. Biotechnology and Production of Anti-Cancer Compounds. Biotechnology and Production of Anti-Cancer Compounds (pp. 201-230) (Book). Springer.

## Journal Chapters

1. **Abraham J**, Cheruvathur MK, Mani B, Thomas DT (2010). A rapid *in vitro* multiplication system for commercial propagation of pharmaceutically important *Cyclea peltata* (Lam) Hook & Thoms. based on enhanced axillary branching. Industrial crops and products. 31 (1): 92-98.
2. Cheruvathur MK, **Abraham J**, Mani B, Thomas DT (2010). Adventitious shoot induction from cultured internodal explants of *Malaxis acuminata* D. Don, a valuable terrestrial medicinal orchid. Plant Cell, Tissue and Organ Culture (PCTOC). 101(2): 163-170
3. **Abraham J**, Thomas DT (2012). Antibacterial activity of medicinal plant *Cyclea peltata* (Lam) Hooks & Thoms. Asian Pacific Journal of Tropical Disease. 2: S280-S284
4. Cheruvathur MK, **Abraham J**, Thomas DT (2013). Plant regeneration through callus organogenesis and true-to-type conformity of plants by RAPD analysis in *Desmodium gangeticum* (Linn.) DC. Applied biochemistry and biotechnology. 169 (6): 1799-1810.
5. Thomas D, Augustine S, **Abraham J**, Thomas DT, Prakash J (2014). *In vitro* antibacterial activity of ZnO nanoparticles prepared using sodium dodecyl sulfate as

stabilizing agent. Romanian J. Biophys. 24: 295-303.

6. Thomas D, **Abraham J**, Sunil CV, Augustine S, Thomas DT (2014). Antibacterial activity of pure and cadmium doped ZnO thin film. Am. J. Pharm. Res. 4: 1612-6
7. Cheruvathur MK, **Abraham J**, Thomas DT (2015). *In vitro* micropropagation and flowering in *Ipomoea sepiaria* Roxb. An important ethanomedicinal plant. 4(1): 49-53. Asian Pacific Journal of Reproduction
8. **Abraham J** and Thomas DT (2015). Plant regeneration from organogenic callus and assessment of clonal fidelity in *Elephantopus scaber* Linn., an ethnomedicinal herb. 21(2): 269-277. Physiology and Molecular Biology of Plants.
9. **Abraham J** and Thomas DT (2015). An efficient shoot regeneration system for medicinally important *Elephantopus scaber* Linn. 15(2): 94-99. Crop Breeding and Applied Biotechnology.

## Conference Presentations

1. **Abraham J** and Thomas DT. Effect of plant growth regulators on shoot multiplication and callus regeneration of ethnomedicinal plant *Vallaris solanacea* (Roth) D. KTZE. Organized by Carmel College Mala On February 25-26th 2009
2. **Abraham J** and Thomas DT. Antibacterial activity of medicinal plant *Cyclea peltata* (Lam) Hooks & Thoms Organized by St. Thomas college Pala On November 22-23th 2011
3. **Abraham J** and Thomas DT. Callus induction and shoot organogenesis from leaf explants of *Elephantopus scaber* Linn, a medicinal plant. Organized by Sree Narayana College Cherthala On March 4-5th 2014
4. **Abraham J** and Thomas DT. A quick in vitro propagation of *Cyclea peltata* (Lam) Hook & Thoms Organized by Bharathidasan University, Coimbatore On January 5-6th 2009
5. **Abraham J** and Thomas DT. A protocol for callus induction and shoot regeneration from leaf explants of *Elephantopus scaber* linn an ethnomedicinal plant. Organized by Sree Narayana College Chempazhanthy On September 7-8th 2012
6. **Abraham J** and Thomas DT. Bioactivity directed isolation and identification of a flavanone derivative 8-hydroxyl naringenin from *Elephantopus scaber* Linn Organized by Sree Narayana College for Women Kollam On August 28-29th 2014
7. Thomas D, **Abraham J**, Deshmuhk K and Sadasivuni KK. 2019 A scrutiny of

antibacterial activity of pure and iodine doped ZnO thin films synthesized by mSILAR method. Proceedings of the International Conference on Advanced Materials , AIP conference proceedings.

8. **Abraham J** and Thomas DT. A protocol for callus induction and shoot regeneration from cotyledonary explants of *Elephantopus scaber* linn, an ethnomedicinal plant. Organized by St. Thomas College Pala On 2013

## Teaching Interests

**Lectures:** Cell and Molecular Biology, Plant Physiology, Plant Biotechnology, Plant Biochemistry, Phytochemistry, Genetics, Plant Anatomy, Classical Botany.