

# ST. THOMAS COLLEGE, KOZHENCHERRY

## DEPARTMENT OF CHEMISTRY

### FACULTY BIOSKETCH



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- **Qualification** : M.Sc. , Ph. D., Postdoc
  
- **Area of Specialization/Research Interests :**  
Organic Chemistry/Asymmetric Synthesis

➤ **Publications** :

1. Y. A. Ibrahim, N. A. Al-Awadi, T. F. Azemi, **Susan Abraham**, E. John Sequential Staudinger ketene-imine cycloaddition, RCM approach to polycyclic macrocyclic bisazetidiones RSC advances, **2013**,3, 6408-6416.
2. T. Satyanarayana, **Susan Abraham** and H. B. Kagan Nonlinear effects in asymmetric catalysis *Angew. Chem. Int. Ed. Angew. Chem. Int. Ed.*, **2009**, 48, 456-494.
3. **Susan Abraham** and G. Sundararajan First instance of Michael addition promoted by chirally modified tetrahydroborate: Investigation on the active species. *Tetrahedron*, **2006**, 62, 1474-1478.
4. G. Sundararajan, **Susan Abraham** Investigation of the active species in a Michael addition promoted by chirally modified borate. Abstracts of Papers, 231st ACS National Meeting, Atlanta, GA, United States, March 26-30, 2006.
5. N. Prabakaran, **Susan Abraham** and G. Sundararajan Asymmetric Michael addition using a chiral catalyst containing aminodiol. *Arkivoc*, **2002**, part vii, 212-226.
6. **Susan Abraham** and G. Sundararajan Asymmetric Michael addition using complexes bearing a new ancillary triamine ligand: Studies toward tuning the reactivity: Metal based enantiomer switching, *communicated*.
7. **Susan Abraham**, A. Anoop and G. Sundararajan Enantioselective Michael addition reaction using a scalemic chiral catalyst/ NLE as a mechanistic tool, *manuscript under preparation*.

**Conference/ Presentations**

1. **Susan Abraham**, Y. A. Ibrahim, N. A. Al-Awadhi, T. F. Al-Azemi, E. John Sequential Staudinger ketene imine cycloaddition, RCM approach to polycyclic macrocyclic bisazetidiones, **International conference on Drugs for the Future: Infectious diseases Antimicrobial drug discovery: Challenges and perspectives DFID-2014** held at Hyderabad, March 2014.
2. **Susan Abraham** and G. Sundararajan *Chiral Diethanolamine – Borohydride Promoted Asymmetric Michael Additions*, **International Research Conference on Advanced Techniques in Chemistry-IRCATC 2014**, held at St. Albert's College, Ernakulam, on 9<sup>th</sup> January, 2014.
3. **Susan Abraham** and G. Sundararajan *Chiral Diethanolamine – Borohydride Promoted Asymmetric Michael Additions*, **Chemistry Biology Interface Syneristic New Frontiers -2004** held at New Delhi, November, 2004.

4. **Susan Abraham** and G. Sundararajan Study Of Nonlinear Effect In Asymmetric Michael Additions Using A Chiral Catalyst, **Recent Advances in Organometallic Catalysis and Olefin Polymerization an Indo-US conference** held at Chennai, December, 2003.
5. **Susan Abraham** and G. Sundararajan Asymmetric Michael Addition Using A Chiral Catalyst Bearing Aminodiol: Linear/Nonlinear Relationship, **Fifth National Symposium in Chemistry** held at Chennai, February, 2003.
6. **Susan Abraham** and G. Sundararajan Asymmetric Michael Addition Using A Scalemic Chiral Catalyst, **Chemists Meet** held at Indian Institute of Technology, Madras, December, 2002.

#### **Participation in Workshops**

1. **State-Level Seminar cum Workshop on Computational Chemistry** held at Dewaswom Board College, Thalayolaparambu on 26 April 2013.