

Faculty Profile

1. Name : Sidhra.S
2. Designation : Associate Professor
3. Date of Joining : 11.06.2007
4. Nature of Association : Regular
5. E mail : sidhra@ksrct.ac.in
6. Mobile no. : +91 8925606990
7. **Academic Qualifications:**



| Course | Name of the Institution / University | Year of Passing | % of Marks | Class |
|----------|---|-----------------|------------|-----------------------------|
| Ph.D | Bharathiar University | May 2012 | - | - |
| M/Phil | Thiruvalluvar University | Aug 2016 | 74 | First I Rank |
| M.Sc., | Madras University | May 2014 | 65 | First 15 th Rank |
| B.Sc., | Madras University | May 2012 | 78 | First 16 th Rank |
| H.S.C. | Thiruvalluvar Higher Sec.School, Gudiyattam | May1999 | 67.8 | First |
| S.S.L.C. | Govt. Municipal Higher Secondary School, Gudiyattam | May1997 | 80.6 | First |

8. Teaching Experience

- As an Associate professor in the Department of Biotechnology, K. S. Rangasamy College of Technology, Tiruchengode, Tamil Nadu, from **July 2012 to till date.**
- As an Assistant professor in the Department of Biotechnology, K. S. Rangasamy College of Technology, Tiruchengode, Tamil Nadu, from **July 2010 to June 2012.**
- As a Lecturer in the Department of Biotechnology, K. S. Rangasamy College of Technology, Tiruchengode, Tamil Nadu, from **June 2007 to June 2010.**
- As a Lecturer in the Department of Biochemistry, K.M.G. College of Arts & Science, Gudiyattam, Vellore District, from **July 2004 to April 2007.**

9. Projects

Under Graduate

- **Title:** “HASIMOTO’S THYROIDITIS- causes and effects”

Post Graduate

- **Title:** “Effectiveness of Allopathic(Metformin Drug) and Polyherbal drug on glycosylated Hemoglobin (GHb) and insulin levels in diabetes patients of age group 40- 70”

Ph. D

- **Thesis title:** “Evaluation of antidiabetic potential of field grown and tissue cultured plants of *Solanum xanthocarpum* Schard. & Wendl. on alloxan - induced experimental diabetes in rats”.

10. Publications

International Journals

1. **Sidhra S**, Syed Zameer Ahmed K, Vanmathi M, Muniraj C, Venkatesan T, Karamchand R and Manimaran V. **2019**. Antiobesity and antihyperlipidemic effect of *Ixora coccinea* on triton-X100 induced hyperlipidemia in rats- an approach to evaluate Asymmetrical Temperature Distribution Analysis Using Thermography. Chinese Herbal Medicines. Accepted for publication 2019.
2. Syed Zameer Ahmed K. **Sidhra S**. Thangakumar A. Krishnaveni R. Therapeutic effect of *Parmotrema tinctorum* against complete Freund’s adjuvant-induced arthritis in rats and identification of novel Isophthalic ester derivative. Biomedicine & Pharmacotherapy. 112(2019)108646. doi: <https://doi.org/10.1016/j.biopha.2019.108646>.
3. Syed Zameer Ahmed K, **Sidhra S**, Nithiya Priya BT, Krishnaveni R, Muniraj C, Venkatesan T, Kisore PV, Karamchand R, Rajadurai SR, Moogambigai SM. **2018**. *In vitro* radical scavenging activity and modulating effect of *Annona cherimola* on complications associated with diabetes in experimental diabetic rats - An approach to evaluate Asymmetrical Temperature Distribution Analysis Using Thermography. Interventions in Obesity & Diabetes. 1(5); 1-7. doi: 10.31031/IOD.2018.01.000522.
4. Syed Zameer Ahmed Khader, **Sidhra** Syed Zameer Ahmed, Kisore Perundurai Venkatesh, Kamaraj Chinnaperumal, Sanjeeva Nayaka. **2018**. Larvicidal Potential of Selected Indigenous Lichens against Three Mosquito species- *Culex quinquefasciatus*, *Aedes aegypti* and *Anopheles stephensi*. Chinese Herbal Medicines. 10(2); 152–156 doi.org/10.1016/j.chmed.2018.03.002.

5. Syed Zameer Ahmed Khader, Sidhra Syed Zameer Ahmed. Thangakumar Arunachalam, Sanjeeva Nayaka, Senthil Kumar Balasubramanian, Syed Tajudeen SyedAmeen, Ponnurugan Ponnusamy. **2018**. Radical scavenging potential, antiinflammatory and antiarthritic activity of isolated isomer Methyl- γ -Orsellinate and roccellatol from *Roccella montagnei* Bel Bulletin of Faculty of Pharmacy, Cairo University, 56(1); 39-45. doi.org/10.1016/j.bfopcu.2018.02.001.
6. K. Syed Zameer Ahmed, **S. Sidhra**, S. Jagadeeswari, M. Mohamed Rafi, R. Kishore. **2018**. A comparative study on larvicidal potential of selected medicinal plants over green synthesized silver Nano particles. Egyptian Journal of Basic and Applied Sciences. 5; 54-62. doi. 10.1016/j.ejbas.2018.01.002.
7. Thangakumar A, Syed Zameer Ahmed K, **Sidhra S**, Syed Tajudeen S, Ibrahim Sheriff A, Dastageer MS, Senthil Kumar B. **2017**. *In vitro* anti-inflammatory, anti-arthritic activity of *Nerium indicum* and *Leucas aspera* a traditional folklore medicine. International Research Journal of Pharmacy. 8(11):77-80.
8. **Sidhra** Syed Zameer Ahmed, Syed Zameer Ahmed Khader, Krishnaveni Radhakrishnan, Anupriya Balaji, Senthil Kumar Balasubramanian, Kishore Ramesh Kumar. **2017**. Modulatory effect of *Leucas aspera* on oxidative stress and glucose metabolism against diabetic complications in experimental rats. International Research Journal of Pharmacy. 8(8): 27-33.
9. Syed Zameer Ahmed K, **Sidhra S**, Senthil Kumar B, Thanga Kumar A, Geetha K, Mohamed Rafi M, Ponnurugan P, Kishore R. **2017**. Modulatory effect of dianthrone rich alcoholic flower extract of *Cassia auriculata*. L. on experimental diabetes. Integrative Medicine Research. 6:134-140.
10. Khader Syed Zameer Ahmed, Syed Zameer Ahmed **Sidhra**, Ponnusamy Ponnurugan and Balasubramanian Senthil Kumar. **2016**. Ameliorative potential of *Solanum trilobatum* on oxidative stress in alloxan induced diabetic rats. *Pakistan Journal of Pharmaceutical Sciences*. 29 (5): 1571-1578.
11. **Poongothai, K.**, Ponnurugan, P., Syed Zameer Ahmed, K., Senthil Kumar, B. and Sheriff, S.A. **2011**. Antihyperglycemic and antioxidant effects of *Solanum xanthocarpum* leaves (field grown & in vitro raised) extracts on alloxan induced diabetic rats. *Asian Pacific J Tropical Medicine*.4 (10): 778-785.
12. **Poongothai, K.**, Ponnurugan, P. and Syed Zameer Ahmed, K. **2010**. A comparative study of antibacterial potential and phytochemical analysis between field grown and tissue cultured plant - *Solanum xanthocarpum* Schrad. and Wendl. *Journal of Pharmacy Research*. 3(8): 1958-1960.
13. **Poongothai, K.**, Syed Zameer Ahmed, K., Ponnurugan. P. and Jayanthi, M. **2010**. Assessment of antidiabetic and antihyperlipidemic potential of *Solanum nigrum* and *Musaparadisiaca* in alloxan induced diabetic rats. *Journal of Pharmacy Research*. 3(9): 2203-2205.
14. Janani R.P., Subhaharshni R., and **Poongothai, K.** **2013**. Anthelmintic activity of leaf extract of *Moringa oleifera* and *Annona squamosa* against gastrointestinal nematodes of goats. *International Journal of Future Biotechnology*. 2(2), 1-9.

International Conferences

1. B.Naresh, **Dr.S.Sidhra**, Dr.K.Syed Zameer Ahmed. **2019**. Evaluation of Biobandage developed using extracts of *Azadiracta indica*, *Centella asiatica*, and *Curcuma longa*. 7th International Conference on Metamorphosis for Academia to Bioindustrialization, Anna University, Chennai. Page-52.
2. **Poongothai, K.**, Jayanthi, M. and Ponmurugan. P. **2009**. Studies on the Effectiveness of Allopathic and Polyherbal Drug on Glycosylated Hemoglobin (GHb) and Insulin levels in Diabetes Patients. Proceedings of International Conference on Biomedical Instrumentation and Health care Engineering. Page 75-78.

National Conferences

1. S. Rajeswari, **Dr. S. Sidhra**, Dr. K. Syed Zameer Ahmed. **2019**. *In vitro* evaluation of Sun Protection Factor (SPF) prepared using *Chlorella vulgaris* extract. CSIR Sponsored - National Conference on Translating the Science of Nutrition into Art of Healthy Living. Page-51
2. S. Rajeswari, **Dr. S. Sidhra**, Dr. K. Syed Zameer Ahmed. **2019**. Preparation of SPF cream using *Chlorella vulgaris* extract and evaluation of its efficacy. A national conference on Personalised medicine & Insights. Anna University. Page- 109.
3. Moogambigai S, Syed Zameer Ahmed. K. and **Sidhra. S. 2018**. *In vitro* biomedical assessment of photobionts isolated from lichens. National level Technical symposium on Innovations of green energy technology for medical and environmental applications for sustainable development.
4. Mohanapreethi, M and **Poongothai, K. 2015**. Comparison of effect of terrestrial and mangrove plants on mosquito larvae of *aedes aegypti* and *culex tritaeniorhynchus*. Biotechnological approach towards environmental sustainability and conservation. Page. 26-28.
5. Anupriya, B and **Poongothai, K. 2015**. Evaluation of antidiabetic activity of *Leucus aspera* leaf extracts on alloxan induced diabetes in rats. Biotechnological approach towards environmental sustainability and conservation. Page 6-8.
6. Mohanapreethi. M and **Poongothai K. 2015**. Comparative analysis of larvicidal activity of terrestrial and mangrove plants against malaria causing mosquito larvae *Culex tritaeniorhynchus*. Biotechnological approach towards environmental sustainability and conservation. Page 12-14.
7. Janani, R.P., Subha harshni, R and **Poongothai, K. 2012**. Larvicidal efficacy of *Solanum xanthocarpum* and *Cucurbita maxima* plant extracts against mosquito species

Culex quinquefasciatus. Proceedings of the National Conference on "Current Scenario in Biotechnology" Bloomsbury publication, Page 339-345.

11. Patent filed and published- Indian

- K. Syed Zameer Ahmed, A. Thangakumar, **S. Sidhra**, S. Syed Tajudeen. Novel compound from *Leucas aspera* L. and its Anti - Cancer activity. Date of filing: 27/12/2017; Publication Date : 05/01/2018. Application No.201741046766 A
- K. Syed Zameer Ahmed, A. Thangakumar, **S. Sidhra**, S. Syed Tajudeen. Novel Phenolic Compounds from *Nerium indicum* with Anti - Breast cancer activity. Date of filing: 27/12/2017; Publication Date : 05/01/2018. Application No.201741046767 A
- K. Syed Zameer Ahmed, **S. Sidhra**, A. Thangakumar, Therapeutic effect of *Parmotrema tinctorum* against complete Freund's adjuvant-induced arthritis in rats and identification of novel Isophthalic ester derivative. Date of filing: 23/08/2018; Publication Date : 31/08/2018. Application No.201841031516 A
- K. Syed Zameer Ahmed, **S. Sidhra**, A. Thangakumar, Ameliorative potential of *Parmotrema reticulatum* against Complete Freund's Adjuvant-induced arthritis in rats and isolation of novel secondary metabolites. Date of filing: 12/12/2018; Publication Date : 21/12/2018. Application No.201841046961 A

12. Sequence deposited at GenBank- NCBI

- Syed Zameer Ahmed K, **Sidhra S**, Kishore R, Moogambigai S M, Gayathri Menon G, Gen Bank Ref. No. SUB3905025 PHOTOBIONT1CS-MH203317, April 2018. <https://www.ncbi.nlm.nih.gov/nuccore/1377569311>
- Syed Zameer Ahmed K, **Sidhra S**, Kishore R, Moogambigai S M, Gayathri Menon G, Gen Bank Ref. No. SUB3905025 PHOTOBIONT2HE-MH203318, April 2018. <https://www.ncbi.nlm.nih.gov/nuccore/1377569312>
- Syed Zameer Ahmed K, **Sidhra S**, Kishore R, Moogambigai S M, Gayathri Menon G, Gen Bank Ref. No. SUB3905025 PHOTOBIONT3HT-MH203319, April 2018. <https://www.ncbi.nlm.nih.gov/nuccore/1377569313>
- Syed Zameer Ahmed K, Kishore R, **Sidhra S**, Krishnaveni R, Karamchand R, GenBank Ref. No. SUB3903064 MYCOBIONT1CS-MH197141, April 2018. <https://www.ncbi.nlm.nih.gov/nuccore/1377041345>
- Syed Zameer Ahmed K, Kishore R, **Sidhra S**, Krishnaveni R, Karamchand R, GenBank Ref. No. SUB3903064 MYCOBIONT2HE-MH197142, April 2018. <https://www.ncbi.nlm.nih.gov/nuccore/1377041346>
- Syed Zameer Ahmed K, **Sidhra S**, Kishore R, Moogambigai S M, Gayathri Menon G, N Visali, Gen Bank Ref. No. SUB4330492-Endolichenic fungi- MH675494, July 2018. <https://www.ncbi.nlm.nih.gov/nuccore/MH675494>
- Syed Zameer Ahmed K, **Sidhra S**, Kishore R, Moogambigai S M, Gayathri Menon G, N Visali, Gen Bank Ref. No. SUB4330458- Endolichenic fungi-MH668964, July 2018. <https://www.ncbi.nlm.nih.gov/nuccore/MH668964>

13. Symposium Training Programmes and workshops attended

- Participated in two days conference on "National Conference on Translating the Science of Nutrition into Art of Healthy Living", held at Department of Biological Sciences, held at K.S.R.College of arts and science, Tiruchengode, on January 30

and 31, 2019

- Participated in three days International symposium on conservation of aquatic & terrestrial biodiversity held at Thiruvalluvar University on September 28-30, 2016.
- Participated in three days lecture workshop on "Mining metabolites from Microbes to Plants" held at the School of Bio-Sciences and Technology, VIT University, Vellore, on August 29-31, 2016.
- Participated in two weeks ISTE-STTP on Pedagogy for effective use in Engineering education conducted by IIT, Bombay from 05th to 31st January 2015.
- Participated in two days on National seminar on building and management of E- Resources, K.S.R. Institute of Technology, Tiruchengode, on 6th February, 2015.
- Two days NABS - National seminar on Biodiversity conservation: Status, future and way forward, held at K S Rangasamy collage of technology on July 19 & 20, 2014.
- Participated in Three days lecture workshop on Mapping, Utilization and Conservation of Bioresources held at the School of Bio-Sciences and Technology, VIT University, Vellore, on October 29-31, 2012.
- Participated in VIT Bio Summit held at VIT University, Vellore on 3rd-5th April 2012.
- Participated in software training on statistical analysis tool-SPSS held at K.S.Rangasamy College of Technology, Tiruchengode on 22nd July 2011.
- Participated in Second National Work Shop on Entrepreneurship Development Program for Biotechnology graduates at K.S.R College of Technology, Tiruchengode. On 1 & 5. March. 2011.
- Participated in the 13th ISTE Annual Convention of Tamil Nadu & Pondicherry Section on Emerging Trends in Engineering Education-Indian Perspective organized by ISTE & K.S.R College of Technology, Tiruchengode. On 29 & 30, October, 2010.
- Participated in 3rd Indo Korean Joint Seminar on Medicinal Plant Research organized by Avinashilingam University for women, Coimbatore. On 23rd February, 2010.
- Participated in National conference on Biotechnology for Human Development, Organized by Vellore Institute of Technology, Vellore. On 27 & 28th November 2009.
- Participated in International Conference on Biomedical Instrumentation & Health care Engineering, organized by Meenakshi sundararajan Engineering College, Chennai. On 06-08, August 2009.
- Participated in Three days lecture workshop on plant genetic resources: Mapping, utilization and conservation held at the School of Bio-Sciences and Technology, VIT University, Vellore, on July 23-25. 2009.
- Participated in National Seminar cum workshop on Advances in Bioinformatics tools in Molecular Research at K.S.R College of Technology, Tiruchengode. On 19- 23, January 2009.
- Participated in two days National Symposium on Recent Trends in Molecular Diagnosis and Nanotherapeutics held at Adhiparasakthi College of Arts & Science, G.B.Nagar, Kalavai. On 15 & 16. October. 2008
- Attended one week training program in Techniques in Plant Tissue Culture and PCR in Shreedhar Bhat's laboratory, Bangalore.

- Attended one day training program on Software training on statistical analysis tool-SPSS in College of Technology, Tiruchengode.
- Participated in various national, international and state level seminars and symposiums.

11. Presentation in conferences

- Presented a poster on Evaluation of Biobandage developed using extracts of *Azadiracta indica*, *Centella asiatica*, and *Curcuma longa* in 7th International Conference on Metamorphosis for Academia to Bioindustrialization held at Anna University, Cheenai and won first place.
- Presented a poster on *In vitro* evaluation of Sun Protection Factor (SPF) prepared using *Chlorella vulgaris* extract in CSIR Sponsored - National Conference on Translating the Science of Nutrition into Art of Healthy Living held at K.S.R. college of Arts and Science, Tiruchengode.
- Presented a poster in VIT Bio Summit 2012 held at VIT University.
- Presented a paper on Effectiveness of allopathic & polyherbal drug on glycosylated heamoglobin (GHB) & Insulin levels in diabetes patients held at Meenakshi sundararajan Engineering College, Chennai.
- Presented a paper in Effect of Fenugreek seed on serum parameters in Normal and Streptozotocin induced diabetes rats held at K.S. Rangasamy College of Technology, Tiruchengode.
- Presented a paper in Industrial Enzymes and their Uses held at Hindustan college of Arts and Science, Chennai.
- Presented a paper in Thyroid and your Health in Research Forum held at K.S.R. College of Technology, Tiruchengode.

12. Membership in professional bodies

- Member in IAENG International Association of Engineers.
- Life Member in Society for Biotechnologist (India)
- Life Member in International association of Lichenology
- Fellow Member in International society of Biotechnology

13. Funded Proposals Completed

- Completed a project as a principal investigator in a student project funded by TNSCST, entitled “Formulation of cream and repellent coil from the leaf extracts of *Leucas aspera* and evaluation of its larvicidal against *Anopheles subpictus*” 2017.

14. Awards and Recognitions

- Best paper publication award 2018 from Nature Science Foundation, Coimbatore. Tamil Nadu, India.
- Certificate of exemplary achievement from K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu, India for publishing research paper in refereed journal-2019.

- Certificate of exemplary achievement from K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu, India for publishing research paper in refereed journal-2016.
- Certificate of exemplary achievement from K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu, India for publishing research paper in refereed journal-2011.
- Certificate of Merit for achieving 100% results in Biopharmaceutical Technology, Industrial Biopharmaceutical Technology (M.Tech) - November 2014 Examination.
- Certificate of Merit for achieving 100% results in Biopharmaceutical Technology- April- May 2013 Examination.
- Certificate of Merit for achieving 100% results in Biopharmaceutical Technology- April- May 2012 Examination.
- Certificate of Merit for achieving 100% results in Biopharmaceutical Technology- April- May 2011 Examination.
- Certificate of Merit for achieving 100% results in Industrial Biotechnology- April- May 2009 Examination.
- Certificate of Merit for achieving 100% result in Instrumental Methods of Analysis, Biochemistry- November 2008 Examination.
- Certificate of Merit for achieving 100% result in Instrumentation Techniques. April- May 2008 Examination.
- Certificate of Merit for achieving 100% result in Bioorganic Chemistry, Professional Ethics and Human Values. November 2007 Examination.

15. Research Activities

- Recognized supervisor by Anna University, Chennai
- Total **Citations**: 113, **h – Index**: 04, **i10 Index**: 2.
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12. Personal Details

Fathers Name : S.Karunanithi

Date of Birth & Age : 10.06.1982 & 37 Years

Gender : Female

Marital Status : Married

Permanent Address : 876,27th Cross Street,
Phase-2, Sathuvachari,
Vellore – 632 009, Tamil
Nadu, India.