
	K.S.RANGASAMY COLLEGE OF TECHNOLOGY TIRUCHENGODE – 637 215 An Autonomous Institution, Affiliated to Anna University, Chennai DEPARTMENT OF BIOTECHNOLOGY	
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GENERAL INFORMATION



Name of Faculty : **Dr. S. Sidhra**

Date of Joining	:	10.06.2007	
Department	:	Biotechnology	
Designation	:	Associate Professor	
Home Address	:	No: 876, 27 th cross street, TNHB, Sathuvachari, Vellore	
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EDUCATIONAL CREDENTIALS (STARTING WITH PG DEGREE)*

Degree	Year	University	Discipline/Specialization
Ph.D.,	2012	Bharathiar University	Biotechnology-Biochemistry
M.Phil.,	2006	Thiruvalluvar University	Biochemistry
M.Sc.,	2004	Madras University	Biochemistry
B.Sc.,	2002	Madras University	Biochemistry

EXPERIENCE

a). ACADEMIC EXPERIENCE (STARTING FROM CURRENT)*

Organization Name & Address	Designation	Job Description	From	To
K.S.Rangasamy College of Technology, Tiruchengode	Associate Professor	Teaching & Research	01.06.2012	Till Date
K.S.Rangasamy College of Technology, Tiruchengode	Assistant Professor	Teaching & Research	01.07.2009	31.05.2012
K.S.Rangasamy College of Technology, Tiruchengode	Lecturer	Teaching & Research	11.06.2007	03.06.2009
K.M.G.College of Technology, Vellore	Lecturer	Teaching	19.07.2004	30.04.2007

Awards and Achievements

- Best paper publication award 2018 from Nature science foundation, Coimbatore, Tamil Nadu, India.

Patent details:

Granted

1. 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

Patent filed and published- Indian

1. 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
2. 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
3. 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

Patent filed and published- International PCT

1. K. Syed Zameer Ahmed, A. Thangakumar, S. Sidhra, S. Syed Tajudeen. Novel compound from *Leucas aspera* L. and its Anti - Cancer activity. Date: 04/07/2019, Application No. PCT/IN2018/050876.

Sequence deposited at GenBank- NCBI

1. 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>
2. 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>
3. 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>
4. 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>
5. 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>
6. 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>

7. 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>

Papers Published

1. Syed Zameer Ahmed K, **Sidhra S**, Mohamed Rafi M, Selva Barathi P, Shanmugasundaram O L, Kishore R, Daniel David. *In vitro* anti-inflammatory, anti-arthritis and anti-proliferative activity of green synthesized silver nanoparticles - *Phoenix dactylifera* (Rothan dates). Brazilian Journal Pharmaceutical Science. **2021**. Accepted for publication. **Impact Factor- 0.814**
2. **Sidhra Syed Zameer Ahmed**, Naresh Balu, Syed Zameer Ahmed Khader, Mohamed Rafi Mahboob, Shanmugasundaram O Lakshmanan. Fabrication and evaluation of bamboo fabric coated with extracts of *Curcuma longa*, *Centella asiatica* and *Azadirachta indica* as a wound dressing material. **2020**. Advances in Traditional Medicine
3. Thangakumar A, Syed Zameer Ahmed K, **Sidhra S**, Manimaran V, Syed Tajudeen S, Ibrahim Sheriff A K, Puniethaa P, Philip Robinson J, Dastageer M S. Radical scavenging and antiproliferative effect of novel phenolic derivatives isolated from *Nerium indicum* against human breast cancer cell line (MCF-7) – an *In silico* and *in vitro* approach. Environmental Science and Pollution Research. **27**, 9038–9057 **2019**. DOI: 10.1007/s11356-019-07252-x. **Impact Factor- 3.056**
4. Syed Zameer Ahmed K, **Sidhra S**, Gayathri Menon G, Mohamed Rafi M, Manimaran V, Manavalan S. *Rhynchosia rufescens* AgNPs enhance cytotoxicity by ROS-mediated apoptosis in MCF-7 cell lines. Environmental Science and Pollution Research. **27**, 2155–2164 **2019**. <https://doi.org/10.1007/s11356-019-06479-y>. **Impact Factor- 3.056**
5. **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. Chinese Herbal Medicines. 11, 326- 331. <https://doi.org/10.1016/j.chmed.2019.05.006>.
6. Syed Zameer Ahmed K. **Sidhra S**. Thangakumar A. Krishnaveni R. **2019**. 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>
7. 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
8. 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.
9. 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.
 10. 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.
 11. 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.
 12. **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.
 13. 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.
 14. 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
 15. **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
 16. **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.
 17. **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.
 18. 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.

Conference:

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. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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. Page12-14.
8. 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.
9. **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.

Book chapter:

1. **Poongothai K.** 2011. Potential of tissue cultured plants in domestic market. Industry – Institute interaction in Biotechnology. Mcmillan Advanced research series Page 147-149.