

Dr. SHIEK FAREETH AHMED

Faculty of Allied Health Sciences (FAHS)
 Chettinad Academy of Research & Education (CARE)
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**QUALIFICATIONS**

Ph.D.: 2011, SRM University of Madras, Kattankulathur, Tamil Nadu, India.

RESEARCH INTERESTS

Neuroscience, systems biology, NGS, artificial intelligence, omics research, Big data analytics

POST-DOC / WORK EXPERIENCE

2010 – 2011: Postdoctoral Researcher, Indian Institute of Technology Madras, INDIA

2011 – present: Asst. Professor(selection garde), Chettinad Hospital and Research Institute (CHRI), Kelambakkam, INDIA

SUMMARY OF RESEARCH

No. of Publications	Citations	h-index	i-10 index
28	400	10	10

PUBLICATIONS

1. **Shiek SSJ Ahmed**, Winkins Santosh, Suresh Kumar: Hema T Thanka Christlet: Metabolic profiling of Parkinson's disease: evidence of biomarker from gene expression analysis and rapid neural network detection, *Journal of Biomedical Science*. 2009, 16:63. (PMID: 19594911) (Impact Factor: 5.02)
2. **Shiek S.S.J. Ahmed**, Winkins Santosh, Suresh Kumar: Neural network algorithm for the early detection of Parkinson's disease from blood plasma by FTIR micro-spectroscopy, *Vibrational Spectroscopy*. 2010, 53:181–188. (IF: 2.08)
3. **Shiek S.S.J. Ahmed**, Winkins Santosh, Suresh Kumar: Metallomic Profiling and oLinkage Map Analysis of Early Parkinson's Disease: A New Insight to Aluminum Marker for the Possible Diagnosis. *PLoS One*. 2010, 5(6): e11252. (PMID: 20582167) (IF: 4.4)
4. **Shiek S.S.J. Ahmed**, Winkins Santosh, Suresh Kumar: QSAR and Pharmacophore modeling of 4-arylthieno [3, 2-d] pyrimidine derivatives against A2A receptor of Parkinson's disease. *Journal of Theoretical and Computational Chemistry*. 2010, 9(6): 975-991. (IF: 0.8)
5. G Hemamalini , PK Ragunath , D Anusha , KT Magesh , **Sheik Fareeth Ahmed**: Relevance of gene signatures in differential diagnosis of mantle cell and B-cell chronic lymphocytic lymphoma. *SRM University Journal of Dental Sciences*. 2010, 1(3):220-224.
6. **Shiek S.S.J. Ahmed**, R.B.Raja, S.Raghuwanshi *et al.*, Studies On The Spectral Lines of Salivary Samples Taken From Smokers And Non-Smokers. *Journal of Health*. 2010, 10:2
7. **Shiek S.S.J. Ahmed**, Winkins Santosh, Srinivasa Chakravarthy, Suresh Kumar: Systems Biological Approach of Neurological Disorders: A Novel Molecular Connectivity to Aging and psychosis. *BMC Systems Biology*. 2011, 5:6. (PMID: 21226925) (IF: 3.57)
8. Ragunath P, Chitra R, **Mohammad S**, Abhinand P: A systems biological study on the comorbidity of autism spectrum disorders and bipolar disorder. *Bioinformatics*. 2011, 7(3):102-6. (PMID: 22125377)
9. Ragunath PK, Reddy BV, Abhinand PA, **Ahmed SS**: Relevance of systems biological approach in the differential diagnosis of invasive lobular carcinoma & invasive ductal carcinoma. *Bioinformatics*. 2012, 8(8):359-64. (PMID: 22570516)
10. **Shiek S.S.J. Ahmed**, Ramakrishnan: Systems biological approach of molecular descriptors connectivity: optimal descriptors for oral bioavailability prediction. *PLoS One*. 2012, 7(7): e40654 (IF: 4.4)

11. **Shiek S.S.J. Ahmed** 2013. Systems biology in unruptured intracranial aneurysm: a metabolomics study in serum for the detection of biomarkers. *Metabolomics*.2013, 1-11 **(IF: 3.855)**
12. Kamath MS, **Ahmed SS**, Dhanasekaran M, Winkins Santosh S. Polycaprolactone scaffold engineered for sustained release of resveratrol: therapeutic enhancement in bone tissue engineering 2013, 2014:183-195 **(IF: 4.383)**
13. R Muthukumar, V Alexander, Thangam B, **Ahmed SSSJ**. A Systems Biological Approach Reveals Multiple Crosstalk Mechanism between Gram-Positive and Negative Bacterial Infections: An Insight into Core Mechanism and Unique Molecular Signatures. PLoS ONE 2014, 9(2): e89993. **(IF: 3.73)**
14. S Kumar, **S Ahmed**, W Santosh Novel markers in the early detection of Parkinson's disease: Would serum elemental analysis work? MOVEMENT DISORDERS 2015, 29, S68-S69. **(IF: 5.68)**
15. V Alexandar, PG Nayar, R Murugesan, B Mary, P Darshana, **SSSJ Ahmed**. CardioGenBase: A Literature Based Multi-Omics Database for Major Cardiovascular Diseases. PloS ONE 2015, 10 (12). **(IF: 3.23)**
16. Alexandar V., Pradeep G. Nayar, R. Murugesan, Shajahan S., Jayalakshmi Krishnan and **Shiek S. S. J. Ahmed**. A systems biology and proteomics-based approach identifies SRC and VEGFA as biomarkers in risk factor mediated coronary heart disease. Mol. BioSyst., 2016, Advance Article DOI: 10.1039/C6MB00264A). **(IF: 2.829)**.
17. **Shiek S.S.J. Ahmed**, R.S. Akram Husain, Suresh Kumar, V. Ramakrishnan Association between MDR1 gene polymorphisms and Parkinson's disease in Asian and Caucasian populations: a meta-analysis. J. Neurological Sciences 2016, 368: 255–262
18. V Ramakrishnan, TA Alphonsa, RSA Husain, **SSSJ Ahmed**, Association of rs1801582 and rs1801334 PARK2 Polymorphisms with risk of Parkinson's disease: A case-control study in South India and Meta-Analysis. Meta Gene 2106: 10, 32-38.
19. V Jayakumar, **SSSJ Ahmed**, KK Ebenezer Multivariate analysis and molecular interaction of curcumin with PPARγ in high fructose diet induced insulin resistance in rats SpringerPlus2016; 5 (1), 1732.
20. V Ramakrishnan, RSA Husain, **SSSJ Ahmed**. Genetic predisposition of IL-10 promoter polymorphisms with risk of multiple sclerosis: A meta-analysis. Journal of Neuroimmunology2017; 306, 11-18.
21. J Sanya*I, **SSSJ Ahmed***, HKT Ng, T Naiya, E Ghosh, TK Banerjee Metallomic Biomarkers in Cerebrospinal fluid and Serum in patients with Parkinson's disease in Indian population Scientific reports 2017; 6 (*equally contributed).
22. V Ramakrishnan, RSA Husain, **SSSJ Ahmed**. PSEN1 gene polymorphisms in Caucasian Alzheimer's disease: A meta-analysis Clinica Chimica Acta 2017; 473, 65-70
23. **SSSJ Ahmed**, RSA Husain, S Kumar, V Ramakrishnan Association Between NOS1 Gene Polymorphisms and Schizophrenia in Asian and Caucasian Populations: A Meta-Analysis NeuroMolecular Medicine 2017; 19 (2-3), 452-461.
24. Shanmuganathan, Aruna; Krishnaveni, R; Narasimhan, Meenakshi; Viswambhar, V; Ragulan, R; Ganga, Nisha; Gangaamaran, M; **SSJ Shiek Fareeth**. Evaluation of Peak Expiratory Flow Rate in Pregnancy in a South Indian Tertiary Care Centre. International Archives of Integrated Medicine 2017; 4(7): 61-66.
25. RSA Husain, **SSSJ Ahmed**, V Ramakrishnan Association Prevalence of human papiloma virus with risk of cervical cancer among south indian women: A genotypic study with meta-analysis and molecular dynamics of HPV E6 oncoprotein. Infection, Genetics and Evolution, 2018;62, 130-140
26. RSA Husain, **SSSJ Ahmed**, V Ramakrishnan Association of PSEN1 rs165932 polymorphism with Alzheimers disease susceptibility: An extensive meta- analysis. Meta Gene 2019; 19, 123-133.
27. RSA Husain, **SSSJ Ahmed**, V Ramakrishnan Genetic association of ABCC8 rs757110 polymorphism with type 2 diabetes mellitus risk: A case-control study in south India and a meta-analysis. Gene Report 2018; 13, 220-228.
28. Lite, Christy; **Sheik SSJ Ahmed**; Santosh, Winkins; Seetharaman, Barathi Prenatal exposure to bisphenol-A altered miRNA-224 and protein expression of aromatase in ovarian granulosa cells concomitant with elevated serum estradiol levels in F1 adult offspring. Journal of biochemical and molecular toxicology 2019;33,6

BOOKS PUBLISHED

- Ramakrishnan V, **Shiek S. S. J. Ahmed** (2013) Genetic Associations with Coronary Artery Disease. LAP Lambert Academic Publishing (ISBN 978-3-659- 34060-4).
- V Alexandar, Saravanan R, **Shiek S. S. J. Ahmed** (2015) Marine Bioinformatics for Marine Omics: Principles and Applications. Taylor & Francis Publishers.\
- Shiek S. S. J. Ahmed and V.Ramakrishnan. Chapter: Marine microorganism: a therapeutically promising source of neuroprotective compounds Book Title:Encyclopedia of Marine Biotechnology. WILEY-BLACKWELL Publisher 2019 (In press).
- Shiek S. S. J. Ahmed and V.Ramakrishnan. Chapter: Photoaging and anti-photoaging activity of compounds derived from marine origin. Book Title: Encycloperdia of Marine Biotechnology. WILEY-BLACKWELL Publisher 2019 (In press)

SEQUENCE PUBLISHED

- Whole genome Sequencing of Mycobacterium avium subsp. paratuberculosis, Using illumina NGS Platform. www.ncbi.nlm.nih.gov/nucore/CP015495

FELLOWSHIP/GRAND'S/AWARDS

Senior research fellowship, Centre for Scientific and Industrial Research, India
Research Associate, Centre for Scientific and Industrial Research, India

PROFESSIONAL ACTIVITIES

2011-present	International Society for Computational Biology (ISCB) member
2010-present	Indian Bioinformatics Society (INBIOS) member

PATENTS & COPYRIGHTS

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- "System and Process For Nitric oxide estimation in fluids ", Indian Patent Application No. 5414/CHE/2015.
 - Indian Copyright Reg. of : Computer Software : "CardioGenBase, a multi-omic database and information retrieval system for cardiovascular diseases" Diary Number: 11174/2015-CO/SW.