

Curriculum vitae



Name: Dr. D. Siva Sundara Kumar

Designation: Associate Professor, Department of Microbiology, Central University of Tamil Nadu

Brief description:

Dr. D.Siva Sundara Kumar is an associate professor in the Department of Microbiology, School of Life Sciences, Central University of Tamil Nadu, India. Prior to this, he worked at the Hongkong Baptist University, Hong Kong as Research Assistant Professor (2012-2017). He has been involved with teaching and research activities at HKBU in the area of cell biology, neurodegenerative diseases, microbiology etc. He received his PhD degree in fungal biotechnology from the University of Hong Kong (HKU) in 2004. As a PhD fellow at HKU, he has gained valuable experience in fungal taxonomy and diversity under the guidance of eminent mycologist Prof. Kevin D Hyde. He obtained Master of Science and Master of Technology degrees from the University of Madras and the Indian Institute of Technology in 1996 and 2000, respectively. In his first postdoctoral training at the Vaccine R&D centre, NHRI, Taiwan (2005-2006), he was involved in the project titled “Identification of an alternate receptor for SARS CoV virus”. In order to extend his training in the neuroprotective strategies for treating neurodegenerative diseases, he was pleased to accept a postdoctoral fellow position under the guidance of Prof. Li Min, HKBU (2006-2012). His interest, as a postdoctoral fellow at Hong Kong Baptist University, is to understand the molecular mechanisms of Alzheimer’s and Parkinson's diseases and develop target validation for drug discovery using in vitro and in vivo approaches. These interests led me to use appropriate assay models to screen several natural small molecules. In addition to research, he has contributed to lab management and supervised PhD students, postdoctoral fellows, senior research assistants on neurodegenerative diseases-related research topics. His experience with outstanding mentors has made him realize the impact good teachers can make on students’ lives. His area of research focus is on the drug discovery and development of antivirals, anti-Alzheimer’s and anti-neurodegenerative agents, fungal biotechnology with an emphasis on bioassay-guided fractionation of metabolites, roles of autophagy and molecular motors in neurodegenerative diseases. He has been involved with teaching and research activities in the area of microbiology and immunology, virology, mycology, pharmaceutical microbiology, molecular pharmacology and drug discovery, molecular neurodegenerative diseases, etc., for the past 10 years. He has guided 3 Ph D students, 12 MSc Students and 6 senior research assistants. He has published 49 papers in peer-reviewed journals (H-index: 28), obtained 2 USA patents and 2 Chinese patents, and 8 extramural grants from Hong Kong and India.

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Research areas:

- Discovery and development of antivirals, anti-Alzheimer's and anti-neurodegenerative agents.
- Fungal biotechnology with an emphasis on bioassay-guided fractionation of metabolites
- Role of autophagy in mycological and neurodegenerative diseases
- Understanding the role of Kinesin I Heavy Chain (KIF5B), a molecular motor, in Tau phosphorylation, aggregation and neurodegeneration in Alzheimer's disease and other tauopathies.

Educational details:

- Ph.D in Fungal Biotechnology (2000-2004), The University of Hong Kong, Hong Kong
- M.Tech in Applied Botany (1998-2000), Indian Institute of Technology, Kharagpur, India
- M.Sc in Plant Science (1996-1998), Center for Advance Studies in Botany, University of Madras, Chennai, India
- B.Sc in Botany (1993-1996), University of Madras, Chennai, India

Experience:

- Associate Professor (2017-present), Laboratory of Mycology and Neurodegenerative Diseases, Department of Microbiology, School of Life Sciences, Central University of Tamil Nadu, India.
- Honorary Assistant Professor (2018-present), School of Biomedical Sciences. University of Hong Kong
- Visiting Scholar (2017), Mr. & Mrs. Ko Chi Ming Center for Parkinson's Disease Research (CPDR), Hong Kong Baptist University School of Chinese Medicine, Hong Kong Baptist University (HKBU), Hong Kong
- Research Assistant Professor (2012-2017), Mr. & Mrs. Ko Chi Ming Center for Parkinson's Disease Research (CPDR), Hong Kong Baptist University, School of Chinese Medicine, HKBU, Hong Kong.
- Senior Research Associate (2012), Neuroscience Research Laboratory, School of Chinese Medicine, HKBU, Hong Kong.
- Postdoctoral Research Fellow (2006-2011), Neuroscience Research Laboratory, School of Chinese Medicine, HKBU, Hong Kong.
- Postdoctoral Fellow (2005-2006), Vaccine Center, R&D, National Health Research Institutes, Taiwan.

Administrative Duties

- Head (2017-2019), Department of Microbiology, CUTN,
- Dean (In-Charge) (2019), School of Life Sciences, CUTN
- Chair (2017-2019), Board of Studies, Department of Microbiology, CUTN
- Chair (2017-2019), Department Research Committee, Department of Microbiology, CUTN
- Chair (2019-present), Institutional Biosafety Committee, CUTN
- Member Secretary (2019-present), Institutional Animal Ethics Committee, CUTN
- Member (2021-present), Internal Quality Assurance Committee, CUTN
- Member (2014-2016), Mr. & Mrs. Ko Chi Ming Center for Parkinson's Disease Research (CPDR), Hong Kong Baptist University, Hong Kong
- Visiting Teaching and Research Staff (2014-2017): HKBU (Haimen) Institute of Science and Technology, Haimen, China

Awards and Recognitions:

- Associate Editor (2022-present); Frontiers in Fungal biology, Frontiers, Switzerland
- "Outstanding Researcher Award in Fungal Biotechnology", received at the 8th Annual Science and Technology Meet – ASTM 2022, Venus International Foundation, India
- Honorary Assistant Professor in the School of Biomedical Sciences, the University of Hong Kong, Hong Kong (2018 – present).
- Editorial Board Member (2021-present): *World Journal of Methodology*, Baishindeng Publishers,

China

- Reviewer Panel Member (2020-present): *Current HIV Research*, Bentham Science Publishers, UAE
- Review Editor (2020-2021): *Frontiers in Fungal Biology* Frontiers Publishers, Lausanne, Switzerland
- Editorial board member (2013-2015): *Evidence-Based Complementary and Alternative Medicine*
- Reviewer: SCI-index journals *Phytomedicine*, *Bioengineered*, *Frontiers in Aging Neuroscience*, *Frontiers in Pharmacology*, *Environmental Sustainability*, *Brain Behavior Immunity*,
- Long-term service award (2006-2016); Hong Kong Baptist University, Hong Kong
- Postdoctoral research fellowship (2006-2012); Hong Kong Baptist University, Hong Kong
- Postdoctoral fellowship (2005-2006); National Health Research Institutes, Taiwan
- Ph.D fellowship (2000-2004); University of Hong Kong, Hong Kong

Details of Publications: Total publications in indexed journals: 49 Total Impact factor: ~200, respectively; Total citation: 2989; h-index: 27 i10-index: 42

[*corresponding author]

- **Durairajan SSK***, Singh AK, Saravanan UB, Namachivayam M, Radhakrishnan M, Huang J-D, Dhodapkar R, Zhang H. Gastrointestinal Manifestations of SARS-CoV-2: Transmission, Pathogenesis, Immunomodulation, Microflora Dysbiosis, and Clinical Implications. **Viruses**. 2023; 15(6):1231. (I.F: 5.818); <https://pubmed.ncbi.nlm.nih.gov/37376531/>
- Prasad MS, Bharani S, Sivaprakash M, Vadivelu P, Kumar DSS, Chowhan LR. N-2,2,2-Trifluoroethylisatin ketimine as a 1,2-dipolarophile for [3 + 2]-addition to access optically pure spirothiazolidine oxindoles. *Org Biomol Chem*. 2023 Jun 21;21(24):4972-4976. <https://pubmed.ncbi.nlm.nih.gov/37272665/>
- Selvarasu K, Singh AK, Iyaswamy A, Gopalkrishnashetty Sreenivasmurthy S, Krishnamoorthi S, Bera AK, Huang JD, **Durairajan SSK***. Reduction of kinesin I heavy chain decreases tau hyperphosphorylation, aggregation, and memory impairment in Alzheimer's disease and tauopathy models. **Front Mol Biosci**. 2022 Oct 25;9:1050768. <https://pubmed.ncbi.nlm.nih.gov/36387285/> (I.F: 6.113),
- Sreenivasmurthy SG, Iyaswamy A, Krishnamoorthi S, Reddi RN, Kammala AK, Vasudevan K, Senapati S, Zhu Z, Su CF, Liu J, Guan XJ, Chua KK, Cheung KH, Chen H, Zhang HJ, Zhang Y, Song JX, **Durairajan SSK***, Li M*. Bromo-protopine, a novel protopine derivative, alleviates tau pathology by activating chaperone-mediated autophagy for Alzheimer's disease therapy. **Front Mol Biosci**. 2022 9:1030534. <https://pubmed.ncbi.nlm.nih.gov/36387285/> (I.F: 6.113),
- Iyaswamy A, Wang X, Krishnamoorthi S, Kaliamoorthy V, Sreenivasmurthy SG, **Durairajan SSK**, Song JX, Tong BC, Zhu Z, Su CF, Liu J, Cheung KH, Lu JH, Tan JQ, Li HW, Wong MS, Li M. Theranostic F-SLOH mitigates Alzheimer's disease pathology involving TFEB and ameliorates cognitive functions in Alzheimer's disease models. **Redox Biol**. 2022 May;51:102280. <https://pubmed.ncbi.nlm.nih.gov/35286997/> (IF: 10.787)
- Sreenivasmurthy SG, Iyaswamy A, Krishnamoorthi S, Senapati S, Malampati S, Zhu Z, Su CF, Liu J, Guan XJ, Tong BC, Cheung KH, Tan JQ, Lu JH, **Durairajan SSK***, Song JX*, Li M*. Protopine promotes the proteasomal degradation of pathological tau in Alzheimer's disease models via HDAC6 inhibition. *Phytomedicine*. 2022 96, 153887. <https://pubmed.ncbi.nlm.nih.gov/34936968/> (IF: 6.656)
- Saravanan UB, Namachivayam M, Jeewon R, Huang JD, **Durairajan SSK***. Animal models for SARS-CoV-2 and SARS-CoV-1 pathogenesis, transmission and therapeutic evaluation. **World J Virol**. 2022; 11(1):40-56. <https://pubmed.ncbi.nlm.nih.gov/35117970/>
- Guguloth SK, Lakshmi A R, Rajendran R, Rajaram K, Chinnasamy T, Huang JD, Zhang H, Senapati S, **Durairajan SSK***. A Mechanistic Review on Plant-derived Natural Inhibitors of Human Coronaviruses with Emphasis on SARS-COV-1 and SARS-COV-2. **Curr Drug Targets**. 2022;23(8):818-835. <https://pubmed.ncbi.nlm.nih.gov/35117970/> (I.F: 2.937)
- **Durairajan SSK***, Selvarasu K, Bera MR, Rajaram K, Iyaswamy A, Li M. Alzheimer's Disease and other Tauopathies: Exploring Efficacy of Medicinal Plant-derived Compounds in Alleviating Tau-mediated Neurodegeneration. **Curr Mol Pharmacol**. 2022;15(2):361-379. <https://pubmed.ncbi.nlm.nih.gov/34488602/> (I.F: 3.855)

- Iyaswamy A, Krishnamoorthi SK, Zhang H, Sreenivasmurthy SG, Zhu Z, Liu J, Su CF, Guan XJ, Wang ZY, Cheung KH, Song JX, **Durairajan SSK***, Li M*. Qingyangshen mitigates amyloid- β and Tau aggregate defects involving PPAR α -TFEB activation in transgenic mice of Alzheimer's disease. *Phytomedicine*. 2021 Oct;91:153648. (IF 2020:5.12) <https://pubmed.ncbi.nlm.nih.gov/34332287/>
- Liang LJ, Jeewon R, Dhandevi P, **Durairajan SSK**, Li H, Lin FC, Wang HK. A novel species of Penicillium With Inhibitory Effects Against *Pyricularia oryzae* and fungal Pathogens Inducing citrus Diseases. *Front Cell Infect Microbiol*. 2021; doi: 10.3389/fcimb.2020.60450410:604504. (IF 2020: 5.34). <https://pubmed.ncbi.nlm.nih.gov/33680979/>
- **Durairajan SSK***, Li M, Chung SK, Han QB, Iyaswamy A, Sreenivasmurthy SG, Malampati S, Kammala AK. Modified Huang-Lian-Jie-Du-Tang and its combination with memantine for Alzheimer's disease: an in vivo study (abridged secondary publication). *Hong Kong Med J*. 2020; 26 Suppl 7(6):33-36. (IF 2020: 1.679). <https://pubmed.ncbi.nlm.nih.gov/33229617/>
- Iyaswamy A, Krishnamoorthi SK, Liu YW, Song JX, Kammala AK, Sreenivasmurthy SG, Malampati S, Tong BCK, Selvarasu K, Cheung KH, Lu JH, Tan JQ, Huang CY, **Durairajan SSK***, **Li M***. Yuan-Hu Zhi Tong Prescription Mitigates Tau Pathology and Alleviates Memory Deficiency in the Preclinical Models of Alzheimer's Disease. *Front Pharmacol*. 2020; 11: 584770. (IF 2020: 4.2236). <https://pubmed.ncbi.nlm.nih.gov/33192524/>
- Yadav SK, Ir Reshma, Jeewon R, Doble M, Hyde KD, Kaliappan I, Jeyaraman R, Reddi RN, Krishnan J, Li M*, **Durairajan SSK*** (2020). A mechanistic review on medicinal mushrooms-derived bioactive compounds as potential mycotherapy in alleviating neurological disorders. *Planta Medica*. 2020 86(16): 1161-1175. (IF 2019: 2.687). <https://pubmed.ncbi.nlm.nih.gov/32663897/>
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- Ng RC, Jian M, Ma OK, Bunting M, Kwan JS, Zhou GJ, Senthilkumar K, Iyaswamy A, Chan PK, Li M, Leung KM, **Durairajan SSK**, Lam KS, Chu LW, Festenstein R, Chung SK, Chan KH. Chronic oral administration of adipoRon reverses cognitive impairments and ameliorates neuropathology in an Alzheimer's disease mouse model. *Mol Psychiatry*. 2020; (doi: 10.1038/s41380-020-0701-0) (IF 2019: 12.384). <https://pubmed.ncbi.nlm.nih.gov/32132650/>
- Song JX, Malampati S, Zeng Y, **Durairajan SSK**, Yang CB, Tong BCT, Iyaswamy A, Shang WB, Sreenivasmurthy GS, Zhu Z, Cheung KH, Lu JH, Tang CZ, Xu NG, Li M.* A novel small molecule TFEB activator ameliorates APP and Tau pathology in Alzheimer's disease models. *Aging Cell*. 2020; 19:e13069. (IF 2019: 7.238). <https://pubmed.ncbi.nlm.nih.gov/31858697/>
- Iyaswamy A, Krishnamoorthi SK, Song JX, Yang CB, Zhang H, Kaliyamoorthy V, Sravan GS, Wang ZY, Zhu Z, Malampati S, Tong CT, Cheung KH, Lu JH, **Durairajan SSK*** Li M*. NeuroDefend, a novel traditional Chinese medicine, attenuates amyloid- β and tau pathology in experimental Alzheimer's disease. *J Food Drug Anal*. 2020; 28:132-146. (IF 2019: 4.727). <https://pubmed.ncbi.nlm.nih.gov/31883601/>
- Naushad M \diamond , **Durairajan SSK \diamond ***, Behra Amal Kanti, Sanjib Senapati, Li Min*. Natural compounds with anti-BACE1 activity as promising therapeutic drug for treating Alzheimer's disease. *Planta Medica*. 2019; 85:1316-1325. (IF 2019: 2.687). <https://pubmed.ncbi.nlm.nih.gov/31618777/>
- Krishnakumar V, **Durairajan SSK***, Alagarasu K, Li M*, Dash AP. (2019). Recent Updates on Mouse Models for Human Immunodeficiency, Influenza, and Dengue Viral Infections. *Viruses*. 2019; 11(3):252. (IF 2019: 3.816). <https://pubmed.ncbi.nlm.nih.gov/30871179/>
- **Durairajan SSK***, Iyaswamy A, Shetty SG, Kammella AK, Malampati S, Shang W, Yang C, Song J, Chung S, Huang J, Ilango K, Han QB, Li M*. A modified formulation of Huanglian-Jie- Du-Tang reduces memory impairments and β -amyloid plaques in a triple transgenic mouse model of Alzheimer's disease. *Sci Rep*. 2017;7(1):6238. (IF 2016: 5.578). <https://pubmed.ncbi.nlm.nih.gov/28740171/>
- **Durairajan SSK***, Chirasani VR, Shetty GS, Iyaswamy A, Malampati S, Song J, Liu L, Huang, J, Senapati S, Min Li*. Salvianolic acid B decreases the generation of amyloid- β by modulating BACE-1 activity. *Curr Alzheimer Res*. 2017; 14: 1-9. (IF 2016: 2.952). <https://pubmed.ncbi.nlm.nih.gov/28413985/>
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 - **Durairajan SSK***, Huang YY, Yuen PY, Chen LL, Kwok KY, Liu LL, Song JX, Han QB, Xue L, Chung SK, Huang JD, Baum L, Senpati S, Li M*. Effects of Huanglian-Jie-Du-Tang and Its Modified Formula on the Modulation of Amyloid- β Precursor Protein Processing in Alzheimer's Disease Models. *PLOS ONE* 2014 9(3):e92954. JCR (IF 2014: 3.511). <https://pubmed.ncbi.nlm.nih.gov/24671102/>
 - Chen LL, Song JX, Lu JH, Yuan ZW, Liu LF, **Durairajan SSK**, Li M*. Corynoxine, a Natural Autophagy Enhancer, Promotes the Clearance of Alpha-Synuclein via Akt/mTOR Pathway. *J Neuroimmune Pharmacol* 2014; 9:380-387. (IF 2014: 4.1). <https://pubmed.ncbi.nlm.nih.gov/24522518/>
 - Chua KK, Chen LL, Liu LF, **Durairajan SSK**, Lu JH, Li M*. Efficacy of classic Chinese medicine formula Ditan Decoction for Alzheimer's disease. *Chin J Integr Med.* 2014; <https://doi.org/10.1007/s11655-014-1346-x>. (IF 2014: 1.278). <https://pubmed.ncbi.nlm.nih.gov/24752474/>
 - Song JX, Lu JH, Liu LF, Chen LL, **Durairajan SSK**, Yue Z, Zhang HQ, Lia M. B1 is involved in autophagy inhibition caused by SNCA/a-synuclein overexpression: a process modulated by the natural autophagy inducer corynoxine B. *Autophagy* 2015;11:1708. (IF 2014: 11.753). <https://pubmed.ncbi.nlm.nih.gov/26382210/>
 - Song JX, Lu JH, Liu LF, Chen LL, **Durairajan SSK**, Yue ZY, Zhang HQ, Li M*. "HMGB1 is involved in autophagy inhibition caused by alpha-synuclein overexpression: a process modulated by the natural autophagy inducer Corynoxine B. *Autophagy* 2014;10:144-54. (IF 2014: 11.753). <https://pubmed.ncbi.nlm.nih.gov/24178442/>
 - **Durairajan SSK**, Liu LF, Lu JH, Chen LL, Yuan Q, Chung SK, Huang L, Li XS, Huang JD, Li M*. Berberine ameliorates beta-amyloid pathology, gliosis, and cognitive impairment in an Alzheimer's disease transgenic mouse model. *Neurobiol Aging.* 2012; 33:2903- 2919. (IF 2012: 6.3). <https://pubmed.ncbi.nlm.nih.gov/22459600/>
 - Lu JH, Tan JQ, **Durairajan SSK**, Liu LF, Zhang ZH, Ma L, Shen HM, Chan HY, Li M*. Isorhynchophylline, a natural alkaloid, promotes the degradation of alpha-synuclein in neuronal cells via inducing autophagy. *Autophagy* 2012; 8(1): 98-108. (Erratum in *Autophagy* 2012; 8(5):864-866. (IF 2018: 11.1). <https://pubmed.ncbi.nlm.nih.gov/22113202/>
 - Liu L.F., **Durairajan SSK**, Lu J.H., Koo I. and Li M* (2012). "In vitro screening on amyloid precursor protein modulation of plants used in Ayurvedic and Traditional Chinese Medicine for memory improvement" *J Ethnopharmacol* 2012, 141: 754-60. (IF 2011: 2.7025). <https://pubmed.ncbi.nlm.nih.gov/21920424/>
 - Man SC, Chan KW, Lu JH, **Durairajan SS**, Liu LF, Li M (2012). Systematic review on the efficacy and safety of herbal medicines for vascular dementia. *Evid. Based Complement Alternat Med.* 2012: 426215. (IF 2011: 4.774). <https://pubmed.ncbi.nlm.nih.gov/22235231/>
 - **Durairajan SSK**, Liu LF, Lu JH, Koo I, Maruyama K., Chung SK, Huang JD and Li M*. Stimulation of non-amyloidogenic processing of amyloid Precursor Protein by cryptotanshinone involves activation and translocation of ADAM-10 and PKC- α . *J. Alzheimer Dis.* 2011; 25: 245-62. [JCR IF 2011: 3.745] <https://pubmed.ncbi.nlm.nih.gov/21403388/>
 - Lu JH, Ardah MT, **Durairajan SSK**, Liu LF, Xie LX, Fong WF, Hasan MY, Huang JD, El-Agnaf O.M.A., Li M*. (2011). Baicalein inhibits formation of α -synuclein oligomers within living cells and prevents A β peptide fibrillation and oligomerization." *ChemBioChem* 2011, 12: 615-624. (IF 2011: 3.088). <https://pubmed.ncbi.nlm.nih.gov/21271629/>
 - Kum WF, **Durairajan SSK**, Bian ZX, Man SC, Lam YC, Xie LX, Lu JH, Wang Y, Huang XZ, Li

- M*. (2011). Treatment of idiopathic parkinson's disease with traditional chinese herbal medicine: A randomized placebo-controlled pilot clinical study" *Evid. Based Complement Alternat Med.* 2011:724353. (IF 2011: 4.774) <https://pubmed.ncbi.nlm.nih.gov/19692449/>
- Xie LX, Durairajan SSK, Lu JH, Liu CL, Kum WF, Wang Y, Koo I, Wu WK, Han D, Lao F, Huang JD, Li M*. (2010). The effect of salvianolic acid B combined with laminar shear stress on TNF- α stimulated adhesion molecule expression 3 in human aortic endothelial cells. *Clinic Hemorheol Microcirc.* 44: 245-58. (IF 2010: 3.398). <https://pubmed.ncbi.nlm.nih.gov/20571239/>
 - Chan WS†, Durairajan SSK†, Lu JH, Wang Y, Xie LX, Kum WF, Koo I, Yung KK, Li M*. Neuroprotective effects of astragaloside IV in 6-hydroxydopamine-treated primary nigral cell culture. *Neurochem Int.* 2009; 55(6): 414-422. †Co-first author. (IF 2009: 3.092). <https://pubmed.ncbi.nlm.nih.gov/19409437/>
 - Man S.C., Durairajan SSK, Kum WF, Lu JH, Huang JD, Cheng CF, Chung V, Xu M, Li M*. Systematic review of the efficacy and safety of herbal medicines for Alzheimer's disease. *J. Alzheimer Dis.* 2008; 14: 209-23. (IF 2014: 3.52). <https://pubmed.ncbi.nlm.nih.gov/18560132/>
 - Kum W F, Gao J, Durairajan SS, Man SC, Xie LX, Lu JH, Fong WL, Li M*. (2009). Risk factors in development of motor complications in Chinese patients with idiopathic Parkinson's disease" *J. Clin Neurosci.* 16: 1034-1037. [IF 2014: 1.378] ISSN: 0967-5868. <https://pubmed.ncbi.nlm.nih.gov/19428256/>
 - Durairajan SSK, Yuan Q, Xie L, Chan WS, Kum WF, Koo I, Liu C, Song Y, Huang JD, Klein WL, Li M*. Salvianolic acid B inhibits Abeta fibril formation and disaggregates preformed fibrils and protects against Abeta-induced cytotoxicity. *Neurochem Int.* 2008; 52(4- 5):741-750. (IF 2008: 3.36). <https://pubmed.ncbi.nlm.nih.gov/17964692/>
 - Lam YC, Kum WF, Lu JH, Durairajan SSK, Man S C, Xu M, Zhang X F, Huang X Z, Li M*. (2008). Efficacy and safety of acupuncture for idiopathic Parkinson's disease: A systematic review. *J. Altern Complem Med.* 14:663-671. JCR IF 2014: 1.586] ISSN: 1557-7708. <https://pubmed.ncbi.nlm.nih.gov/18684073/>
 - Li M.*, Zhao MQ, Durairajan SS, Xie LX, Zhang HX, Kum W F, Goto S, Liao FL (2008). Protective effect of Tetramethylpyrazine and Salvianolic Acid B on Apoptosis of Rat Cerebral Microvascular Endothelial Cell under High Shear Stress. *Clin Hemorheol Microcirc.* 38:177-187. (IF 2008: 2.242). <https://pubmed.ncbi.nlm.nih.gov/18239260/>
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 - Durairajan SSK, Lau CS, Wan MF, Yang D, Hyde KD. (2005). Immunomodulatory compounds from *Pestalotiopsis leucothēs*, an endophytic fungus of *Tripterygium wilfordii*. *Life Sci.* 78(2):147-156. (IF 2005: 2.702] . <https://pubmed.ncbi.nlm.nih.gov/16107268/>
 - Durairajan SS, Cheung HY, Lau CS, Chen F, Hyde KD. (2004). In vitro studies of endophytic fungi from *Tripterygium wilfordii* with anti-proliferative activity on human peripheral blood mononuclear cells. *J Ethnopharmacol.* 94(2-3):295-300. (IF 2004:2.98). <https://pubmed.ncbi.nlm.nih.gov/15325734/>
 - Durairajan SS* and Hyde, KD. (2004) Biodiversity and tissue specificity of endophytic fungi from *Tripterygium wilfordii*. *Fungal Diversity* 17:69-90. (IF 2018: 15). <https://www.fungaldiversity.org/fdp/sfdp/17-6.pdf>
 - Durairajan SSK, Cheung H.Y., Zhu G.Y., Yang D., Fong, W.F., Hyde K.D. (2003). Isolation and identification of triptonide and its analogous compounds from a fungal culture of *Pestalotiopsis leucothēs*. *Hong Kong Pharmaceutical Journal* 12(4):158-164. ISSN 1727-2874. <http://www.pshk.hk/uploads/files/HKPJ/v12n4.pdf>

Granted Patents:

- Li M, Durairajan SSK, Chen, LL, Liu LF, Song JX. "Composition comprising Rhizoma Coptidis, Cortex Phellodendri and Fructus Gardeniae and For Treating Neurodegenerative Diseases" U.S. Patent 9,375,457 B2; HK Patent 15100686.2; Date of patent: 28/06/2016.
- Li M, Durairajan SSK, Chen, LL, Liu LF, Song JX. "包含黄连、黄柏以及梔子并且用于治疗神经变性疾病的组合物 (Composition comprising Rhizoma Coptidis, Cortex Phellodendri and Fructus Gardeniae and For Treating Neurodegenerative Diseases) " CN10422502 Patent

Application No. 104225023; Application Date: 13.06.2014 Publication Date: 25.07.2017; Grant Date: 25.07.2017; HK Patent 15100686.2; Date of patent: 28/06/2016.

- Li, Min, Iyaswamy A, **Durairajan SSK**, Krishnamoorthi S, Zhang, H Sreenivasamurthy, Sravan G. S. Uses and Development of Neurodefend for Treating Neurodegenerative Diseases. US Patent No: 62/ 16/219976, Publication No. : 20190282646 ; Publication Date:, September 19, 2019; Grant No.: 11167000; Grant Date: 09/11/2021.
- Li, Min, Iyaswamy A, **Durairajan SSK**, Krishnamoorthi S, Zhang, H Sreenivasamurthy, Sravan G. S. 草药组合物及其治疗神经退行性疾病的用途 (Uses and Development of Neurodefend for Treating Neurodegenerative Diseases). Chinese Patent Grant No. CN 1102629894 B, Grant date: 28.01.2022.

Filed Patents:

- **Durairajan SSK**, Samuthiram N, Prasad MS. “Licochalcone-A and/or Its Derivatives For Inducing Neuronal Differentiation,” Indian Patent Application No. 2 01941038499 A, Date of publication : 26-03-2019.
- Li M, **Durairajan SSK**., Liu LF., Lu JH. “Berberine Alkaloid as a Medicament for Prophylaxis and Treatment of Alzheimer's Disease” U.S. Patent Application No. 61/609917, 2013.
- Li M, Lu JH, **Durairajan SSK**, Liu LF Autophagy Inducing Compounds and the Uses Thereof. U.S. Patent application No. US20120245190A1 61/466479, 2012.

Extramural Projects:

- DBT's COVID-19 therapeutics grant titled “Virtual and in vitro screening of spiropyrrolidine derivatives and DiversetTM core library small molecules to identify SARS-CoV-2 entry, fusion and protease inhibitors: An anti-COVID-19 drug discovery and development program” Ref BT/PR4094/ COT/142/20/2021; Role: P.I. Amount INR 70.24 Lakhs. 19/02/2021 to 18/02/2024.G
- SERB/DST's Core Research Grant titled “Deciphering the role of Kinesin I heavy chain on the Tau phosphorylation and aggregation in Alzheimer's disease and other tauopathies” Ref: CRG/2018/001596; Role: P.I. Amount: INR 55.17 Lakhs; Duration: 04/06/2019 - 30-11-2022.
- Govt. of Hong Kong's Health and Medical Research Fund titled “Investigation of Anti-Alzheimer's activity of Protopine derivative for clearing Tau through modulation of HDAC6-Hsp90 interplay and for improving memory via stimulation of RAS-GRF1/ERK pathway”, Ref. No.: 15163481; Role: PI till submission of response to reviewers' comments and Co.I. Amount: HK\$ 1,159,200.00. Duration:1/09/2018 - 30/08/2020.
- Hong Kong UGC's Collaborative Research Fund titled “Alzheimer's Disease: From Detection, Diagnostics to Therapeutics”, Ref. No.: C2012-15G; Role: Co-PI; amount: HK\$ 8,437,558; Duration: 01/06/2016 - 31/05/2019.
- Health and Medical Research Fund titled “Potential repositioning of antiepileptic drugs for the treatment of Alzheimer's disease: Role of Qingyangshen, gabapentin or their combination in neurogenesis and disease modification” Ref. No.: 13144471; Role: PI till 1-04-2017 and Co.I; Amount: HK\$ 1,195,400; Duration: 01/06/2016 - 31/05/2018.
- Govt. of Hong Kong's Health and Medical Research Fund titled “Neuropharmacological and Chemical-genetical Approaches to Investigate the Therapeutic Effects of Yuanhu Zhitong Prescription in Treating Alzheimer's disease”, Ref. No.: 12132061; Role: PI; Amount: HK\$884,000; Duration: 15/08/2015 - 14/08/2017.
- Innovation Technology Fund titled “Development of NeuroDefend: A traditional Chinese medicine formula optimized for treating Alzheimer's disease and other tauopathies”, Ref. No.: ITS/253/14; Role: PI till 30-9-2017; Amount: HK\$1,398,887; Duration: 01/03/2016 - 31/03/2018.
- Innovation Technology Fund titled “Structural modification of protopine alkaloid from the Chinese herbal medicine Yanhusuo for the optimization of anti-Alzheimer's disease activity”, Ref. No.: ITS//187/13; Role: PI; Amount: HK\$ 1,397,430; Duration: 01/12/2014-31/08/2016.
- Health and Medical Research Fund titled “An In Vivo Investigation of The Therapeutic Effects of Modified Huang-Lian-Jie-Du-Tang and Its Combination with a Western Drug memantine”, Ref. No.: 11122511; Role: PI; Amount: HK\$ 904,000; Duration: 05/02/2014- 04/03/2016.

Intramural projects:

- HKBU's Faculty Research Grant-I titled "Studies of the neuroprotective effect of protopine on TNF-alpha-induced Tau hyperphosphorylation", Ref. No.: FRG1/11-12/045; Role: PI; Amount: HK\$50,000, Duration: 01/07/2012 to 30/06/2013.
- HKBU's Matching Proof of Concept Fund titled "Optimization of modified Huang-Lian-Jie-Du-Tang formula by its Combination with Danshen and Yanhusuo in Treating Alzheimer's disease", Ref.# MPCF-007-2014/2015. Role: PI; Amount: HK\$150,000, Duration: 04/04/2014-30/06/2015.
- HKBU's Faculty Research Grant-II titled "Role of Corynoxine in the autophagy and lysosomal-mediated degradation of amyloid-β peptides and Tau protein in Alzheimer's disease models", Ref. No.: FRG2/13-14/023; Role: PI; Amount: HK\$120,000, Duration: 01/05/2014-30/04/2015.
- HKBU's Faculty Research Grant-II titled "Mechanistic study of the microtubule stabilizing effects of protopine and its potential use as an anti-Alzheimer's disease agent", Ref. No.: FRG2/14-15/079; Role: PI; Amount: HK\$ 149,240.00, Duration: 01/08/2015-31/07/2016.
- HKBU's Faculty Research Grant-II titled "Protopine, A Novel Promising Histone Deacetylase 6 Inhibitor: Role in Tau Degradation and Neuroprotection in Alzheimer's Disease", Ref. No.: FRG2/15-16/013; Role: PI; Amount: HK\$ 149,240.00, Duration: 01/05/2016- 31/03/2017.
- HKBU's Faculty Research Grant-II titled "Structural Modification of A Novel Histone Deacetylase 6 Inhibitor Protopine for Its Optimization of Anti-Alzheimer's and Anti-tauopathies Activities", Ref. No.: FRG2/16-17/001; Role: PI; Amount: HK\$ 119,952.00, Duration: 01/07/2016- 30/06/2017.

Chapters in Edited Volumes

- Iyaswamy, A., Krishnamoorthi, S. K., Liu, Y. W., Song, J. X., Kammala, A. K., Sreenivasmurthy, S. G., Malampati, S., Tong, B., Selvarasu, K., Cheung, K. H., Lu, J. H., Tan, J. Q., Huang, C. Y., **Durairajan, S.**, & Li, M.. Yuan-Hu Zhi Tong Prescription Mitigates Tau Pathology and Alleviates Memory Deficiency in the Preclinical Models of Alzheimer's Disease. *Frontiers in pharmacology*, 11, 584770. In: Lu, J., Li, M., Song, J., eds. (2022). *Assessing the Pharmacological Effects and Therapeutic Potential of Traditional Chinese Medicine in Neurological Disease Models: An Update*. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-88976-191-3
- **Durairajan SSK**, Rakesh S, Durairajan B, Rajaram K, Arunkumar N, Jeewon R. Plant Growth-Promoting Potentials of Endophytic Fungi for the Management of Agricultural Crops and Grasses", In *Plant Microbiome Paradigm.*, Ed. A. Varma, S. Tripathi, R. Prasad, Cham, Switzerland, Springer, 2020, ch. 6, pp. 105-120.
- Rakesh, S, Nagarathinam AK, Rajaram K, **Durairajan SSK***. Contribution of Beneficial Fungi for Maintaining Sustainable Plant Growth and Soil Fertility," in *Plant Growth Symbiosis.*, Ed. A. Varma, S. Tripathi, R. Prasad, Cham, Switzerland, Springer, 2020, ch. 6, pp. 105-113.
- Nagarathinam A, Rakesh S, Rajaram K, Narayanasamy RK, **Durairajan, SSK***. AnthosphereMicrobiome and Their Associated Interactions at the Aromatic Interface. In: *Plant Microbe Interface*. Ed. A.Varma, S. Tripathi , R. Prasad, Cham, Switzerland, Springer, 2019 ch.14, pp. 309- 324.
- Jeewon R, Luckhun A, Bhoyroo V, Nabeelah S, Mahoomodally MF, Rampadarath S, Puchooa D, Sarma VV, **Durairajan SSK**, Hyde KD. Pharmaceutical potential of marine fungal endophytes. In: *Endophytes and secondary metabolites, reference series in phytochemistry*. Ed. Jha, Springer Nature. pp. 1-23.

Supervision

PhD Students :

S.No.	Name of the Scholar	Institution	Duraton	Status
1	Dr. Liang-Feng Liu	Hong Kong Baptist University	2012 – 2015	Awarded
2	Dr. Li-Xia Xie	Hong Kong Baptist University	2006 - 2009	Awarded

3	Dr. Sravan G.S	Hong Kong Baptist University	2017-2021	Awarded
4	Mr.Abhay S.K	Central University of Tamil Nadu	2019-present	On going
5	Mr.S.Karthikayen	Central University of Tamil Nadu	2019-present	On going
6	Ms.Supriti Patnaik	Central University of Tamil Nadu	2019-present	On going
7	Mr.Moorti R	Central University of Tamil Nadu	2022-present	On going
8	Ms. Bharani	Central University of Tamil Nadu	2021-present	On going

Honors and Master students:

S..N.	Name of the student	Institution	Year
1	Mr.Wenbin Shang	Hong Kong Baptist University	2015
2	Ms. Mehjabeen Naushad	Central University of Tamil Nadu	2019
3	Mr.Sonu Kumar Yadhav	Central University of Tamil Nadu	2019
4	Mr.Murali	Central University of Tamil Nadu	2019
5	Ms. Minu Rani Bera	Central University of Tamil Nadu	2020
6	Mr.Vivek N	Central University of Tamil Nadu	2020
7	Mr. Mayurikaa N	Central University of Tamil Nadu	2021
8	Ms. Udhay Bharathy	Central University of Tamil Nadu	2021
9	Ms. Susmitha Madasu	Central University of Tamil Nadu	2021
10	Ms. Abirami N	Central University of Tamil Nadu	2022
11	Ms. Aiswarya Satheesh	Central University of Tamil Nadu	2022
12	Ms.Amrutha Sajith	Central University of Tamil Nadu	2022
13	Mr. Ponnasani Kotes	Central University of Tamil Nadu	2022
14	Ms. Gopu Chamundeshwari Devi	Central University of Tamil Nadu	2023
15	Mr.Yadu Nandan S	Central University of Tamil Nadu	2023
16	Mr.Venkateswara Naik Sapavath	Central University of Tamil Nadu	2023

Senior Research Assistants :

S.No	Name of the fellow	Institution	Duraton
1	Dr.Ashok Iyaswamy	Hong Kong Baptist University	2014-2017
2	Dr. Ananth Kumar	Hong Kong Baptist University	2015 - 2016
3	Dr.Rambabu Reddi	Hong Kong Baptist University	2015 - 2016

Research Assistants :

S.No	Name of the fellow	Institution	Duraton
1	Ms.Yinshuhai Zhang	Hong Kong Baptist University	2014 - 2015
2	Mr. Sandeep Malampati	Hong Kong Baptist University	2014 - 2015
3	Mr. Sravan GS	Hong Kong Baptist University	2014 - 2017
4	Mr. Wong Chi Chiu	Hong Kong Baptist University	2016 - 2016
5	Ms. Fiona Cheuk Yan Lee	Hong Kong Baptist University	2016 - 2016
6	Mr.Tam Chit	Hong Kong Baptist University	2016 – 2017
7	Ms.Bharani	Central University of Tamil Nadu	2021-2022

Junior Research Fellows :

S.No	Name of the fellow	Institution	Duraton
1	Mr.S.Karthikeyan	Central University of Tamil Nadu	2019-2022
2	Ms.Trupti Kadni Satish	Central University of Tamil Nadu	2021-2021
3	Mr.Moorthi R	Central University of Tamil Nadu	2021-present

Membership Services:

- Member of Society for Neuroscience (SFN) (2015-2016)
- Member of International Society to Advance Alzheimer's Research and Treatment (ISTAART)-
- Alzheimer's Association (2017-2018)
- Mycological Society of India, Life member (2020-present)

International Conferences:

Papers in conference proceedings:

- **Siva Sundara Kumar** “ A Novel Small Molecule TFEB Activator Induce Lysosomal Biogenesis and Reduces α -Synuclein in Parkinson Disease Models. Presented at International Conference on Drug Discovery 2020 (ICDD 2020), organized by Schrödinger Inc, USA in collaboration with BITS-Pilani Hyderabad. <http://ssrn.com/abstract:3546519>
- **Durairajan SSK***, Reddy R, Sravan, GS, Iyaswamy A, Kammella A, Krishnamoorti S, Zhang H, Li M. (2017). Bromo-protopine, a novel derivative of protopine with improved bioavailability and bioactivity, degrades Tau aggregation through modulation of HDAC6-HSP90 chaperonic activity and improves memory via stimulation of the RAS-GRF1/ERK pathway. *Alzheimer's & Dementia* 2017; 13 (Suppl. 7), p1575-1576, at Alzheimer's Association International Conference, London, UK, 16-20 July, 2017. [JCR IF 2016: 9.478]
- **Durairajan SSK***, Li M*, Malampati S, Zhang Y, Huang Y, Liu LF, Song, JX, Chen LL, Zeng Y, Senapati, S. (2015). Protopine, A promising novel histone deacetylase 6 inhibitor reduces tauopathy in *in vitro* and *in vivo*. *Neurodegener. Dis.* 2015; 15(Suppl. 1), p1579. [JCR IF 2014: 3.511]
- **Durairajan SSK***, Huang YY, Chen L.L., Liu, LL, Song J.X, Li M*. (2013). Corynoxine isomers decrease levels of amyloid-beta peptide and amyloid-beta precursor protein by promoting autophagy and lysosome biogenesis. *Mol. Neurodegen.* 2013; Vol 8, (Suppl. 1): P16. Doi: 10.1186/1750-1326-8-S1-P16. The 3rd Molecular Neurodegeneration: Basic biology and disease pathways, held in Cannes, France, September, 2013. [JCR IF 2013: 5.2]
- **Durairajan SSK***, Chen LL, Liu LL, Song JX, Baum L, Li M*. (2013). Corynoxine B, a Novel Autophagy Enhancer, Promotes the Clearance of Mutant Tau Aggregation in vitro and in vivo. *Neurodegen. Dis.* 2013; Vol. 11, (Suppl.1): p827. The 11th International Congress on Alzheimer's & Parkinson's Diseases (ICAPD), Florence, Italy, 9-13 March, 2013.
- **Durairajan SSK**, Liu LF, Lu JH, Koo I, Maruyama K, Chung SK, Huang JD, Li M. (2011). Chronic administration of berberine inhibits A β production, plaque formation, gliosis and cognitive deterioration in a transgenic mouse model of Alzheimer's disease. *Neurodegener. Dis.* 2011; Suppl. 1), p1139. The 10th International Congress on Alzheimer's & Parkinson's Diseases (ICAPD), Barcelona, Spain, 9-13 March, 2011.
- **Durairajan SSK**, Lau C.K., Chan W.K., Yang D, Cheung HY, Chen F, Hyde KD. (2003). Immunomodulatory activity of an endophytic fungus from *Tripterygium wilfordii*. In proceedings of the Biothailand 2003-2nd International Conference on Medicinal Mushroom and the International Conference on Biodiversity and Bioactive compounds. Pattaya, Thailand, Page 367-373. 17-20 July, 2003.

Conferences attended:

- “Reducing motor protein Kinesin I heavy chain (KIF5B) decreases tau phosphorylation and accumulation and memory deficits in tauopathy models”, online presentation at Neurodegenerative Diseases: Biology & Therapeutics meeting, Cold Spring Harbor Laboratory, USA, November 30 - December 3, 2022

- “Depletion of Endogenous KIF5B Ameliorates Tau hyperphosphorylation, Aggregation and Memory impairment in models of Alzheimer’s Disease’, presented **an invited lecture** at the Global Live Conference on Alzheimer's Disease organized as Virtual Live Conference, on April 30, 2022, Organized by OLCIAS Live conferences (International)
- “Therapeutic Potentials of Medicinal Mushrooms and their Biomolecules in Ameliorating Neurodegenerative Disease, presented **a keynote lecture** at 8th Annual Science and Technology Meet (National), on 2nd July 2022, organized by Venus International Foundation, Chennai, India,
- “ A Novel Small Molecule TFEB Activator Induce Lysosomal Biogenesis and Reduces α -Synuclein in Parkinson Disease Models. Presented at International Conference on Drug Discovery 2020 (ICDD 2020), organized by Schrödinger Inc, USA in collaboration with BITS-Pilani Hyderabad. <http://ssrn.com/abstract:3546519>
- “Therapeutic value of medicinal mushrooms in alleviating neurodegenerative diseases. Paper presented (oral presentation) at the National conference on “Recent advances in Biodiversity, Biology and Biotechnology of Fungi”, organized by the Department of Biotechnology, Pondicherry University along with the 46th Annual meeting of Mycological Society of India at Pondicherry University, Pondicherry-605 014 during 7-9 November 2019.
- “Plant growth promoting Potentials of root-associated Endophytic Fungi for the Management for Agricultural Crops (**Invited Lecture**). Paper presented at the National Conference on “Novel Microbial Technologies for Sustainable Agriculture and Allied Industries”, 28-29th January, 2019, organized by the faculty of agriculture, Annamalai University, India.
- “Reduction of kinesin-1 heavy chain (Kif5B) ameliorates tau hyperphosphorylation, aggregation and neurodegeneration in cell and animal models of tauopathy”. Oral given in platform presentation at Neurodegenerative Diseases: Biology & Therapeutics conference, Cold Spring Harbor meeting, November 30-3rd Dec 2016, New York, USA.
- “Differential Effects of Huanglian-Jie-Du-Tang and Its Modified Formula on the Modulation of β - Amyloid Precursor Protein Processing in Alzheimer's Disease Models”. (**Invited speaker**). International Alzheimer's Disease Conference. 6-7 June 2014, Hong Kong.
- A modified formulation of Huanglian-Jie-Du-Tang ameliorates memory impairment and reduces A β plaques in a triple transgenic mouse model of Alzheimer’s disease. Oral given in young investigator Forum. The 9th Pong Ding Yuen International Symposium on Traditional Chinese Medicine Chinese Medicine for Mental Health: From Bedside to Bench. 5-6/12/2015, Hong Kong.
- “Salvianolic B Inhibits A β fibril Formation, disaggregates performed fibrils and protects against A β -induced cytotoxicity.” Oral presented at 1st World Conference on Life Science and Traditional Medicine. August 22-24. 2007, Espoo, Finland.
- Immunomodulatory compounds from *Pestalotiopsis leucothēs*, an endophytic fungus of *Tripterygium wilfordii*. Oral presented at 9th Medical Research Conference at the University of Hong Kong. 8-9 Feb. 2004, Hong Kong. 14th International Conference on Vectors and Vector borne disease
- ses, organized by ICMR-RMC Bhubaneswar and NAVD India. January 9-11, 2018. Bhubaneswar, Orissa, India.
- Protopine promotes tau protein degradation by modulating HDAC6-HSP90 chaperonic activity. Poster presentation in molecular & Cellular Neurobiology, Gordon Research Conferences: Novel Approaches and New Advancement in Neural Development, Plasticity, and Diseases The Hong Kong University of Science and Technology, Jun 12-17 2016
- Rhizoma Corydalis (Yanhusuo) Rescues Neuronal Dysfunction in a Mouse Model of Tauopathy. The 8th Pong Ding Yuen International Symposium on Traditional Chinese Medicine. Hong Kong 15-16 November 2014.
- “Cryptotanshinone decrease β -amyloid generation by modulating amyloid precursor protein processing.” Poster presented at 9th Meeting of Consortium for Globalization of Chinese Medicine (CGCM) 23-25th August, 2010 Hong Kong.
- “Neuroprotective effect of salvianolic acid B on A β production and A β oligomer Induced-Tau phosphorylation.” Poster presented at Third International Congress of Complementary Medicine Research 2008 (ICCMR 2008), 29-31 March 2008, Sydney, Australia.
- Inhibition of β -amyloid aggregation and cytotoxicity by Salvianolic acid B.” Poster presented at the World Congress on Ageing and Dementia in Chinese Communities 2007. March 7-10, 2007, Hong Kong, S.A.R.

- “Inhibition of β -Amyloid fibril formation and cytotoxicity by Chinese medicinal compounds.”
Poster presented at the 2006 World Congress on Chinese Medicine: Charting the Course of development (2006 WCCM). Nov. 23-25, 2006, Hong Kong, S.A.R.
- Immunomodulatory activity of *Pestalotiopsis* sp., an endophytic fungus from *Tripterygium wilfordii*. Poster presented at 9th Medical Research Conference in the University of Hong Kong. From 8-02-2004 to 9-02-2004.