

Ashok IYASWAMY  
Research Assistant Professor  
Chinese Medicine - Teaching and Research Division  
Email: iashok@hkbu.edu.hk



## Chinese Name

\*\*\*\*\*

## Employment

### Research Assistant Professor

Chinese Medicine - Teaching and Research Division  
Hong Kong Baptist University  
Hong Kong  
1 Sept 2023 → present

## Research outputs

### Role of *Candida* species in pathogenesis, immune regulation, and prognostic tools for managing ulcerative colitis and Crohn's disease

Patnaik, S., Durairajan, S. S. K., Singh, A. K., Krishnamoorthi, S., Iyaswamy, A., Mandavi, S. P., Jeewon, R. & Williams, L. L., 28 Dec 2024, In: World Journal of Gastroenterology. 30, 48, p. 5212-5220 9 p.

### Integrated RNA sequencing and biochemical studies reveal endoplasmic reticulum stress and autophagy dysregulation contribute to Tri (2-Ethylhexyl) phosphate (TEHP)-induced cell injury in Sertoli cells

Chen, P., Song, Y., Tang, L., Qiu, Z., Chen, J., Xia, S., Iyaswamy, A., Cai, J., Sun, Y., Yang, C. & Wang, J., 1 Nov 2024, In: Environmental Pollution. 360, 13 p., 124536.

### Elucidating the role of gut microbiota dysbiosis in hyperuricemia and gout: Insights and therapeutic strategies

Singh, A. K., Kumar Durairajan, S. S., Durairajan, S. S. K., Iyaswamy, A. & Williams, L. L., 28 Oct 2024, In: World Journal of Gastroenterology. 30, 40, p. 4404-4410 7 p.

### Unraveling the interplay of kinesin-1, tau, and microtubules in neurodegeneration associated with Alzheimer's disease

Durairajan, S. S. K., Selvarasu, K., Singh, A. K., Patnaik, S., Iyaswamy, A., Jaiswal, Y., Williams, L. L. & Huang, J. D., 23 Oct 2024, In: Frontiers in Cellular Neuroscience. 18, 19 p., 1432002.

### Peptide-Conjugated Vascular Endothelial Extracellular Vesicles Encapsulating Vinorelbine for Lung Cancer Targeted Therapeutics

Gaurav, I., Thakur, A., Zhang, K., Thakur, S., Hu, X., Xu, Z., Kumar, G., Jaganathan, R., Iyaswamy, A., Li, M., Zhang, G. & Yang, Z., 17 Oct 2024, In: Nanomaterials. 14, 20, 22 p., 1669.

### Peroxisome proliferator-activated receptor agonists: A new hope towards the management of alcoholic liver disease

Durairajan, S. S. K., Singh, A. K. & Iyaswamy, A., 21 Sept 2024, In: World Journal of Gastroenterology. 30, 35, p. 3965-3971 7 p.

### Molecular engineering of a theranostic molecule that detects A $\beta$ plaques, inhibits Iowa and Dutch mutation A $\beta$ self-aggregation and promotes lysosomal biogenesis for Alzheimer's disease

Iyaswamy, A., Wang, X., Zhang, H., Vasudevan, K., Wankhar, D., Lu, K., Krishnamoorthi, S., Guan, X.-J., Su, C.-F., Liu, J., Kan, Y., Jaganathan, R., Deng, Z., Li, H. W., Wong, M. S. & Li, M., 21 Aug 2024, In: Journal of Materials Chemistry B. 12, 31, p. 7543-7556 14 p.

## **EXOSOMAL COMPOSITIONS AND METHODS FOR TREATING NEURODEGENERATIVE DISEASES**

LI, M. (Inventor), IYASWAMY, A. (Inventor), Chen, H. J. (Inventor) & Thakur, A. (Inventor), 18 Jul 2024, IPC No. A61-LM-Fe65-PT01, 9 Jan 2024, Priority date 13 Jan 2023, Priority No. PCT/CN2024/071455

### **Corynoxine promotes TFEB/TFE3-mediated autophagy and alleviates A $\beta$ pathology in Alzheimer's disease models**

Guan, X.-J., Deng, Z.-Q., Liu, J., Su, C.-F., Tong, B. C. K., Zhu, Z., Sreenivasmurthy, S. G., Kan, Y.-X., Lu, K., Chu, C. P. K., Pi, R.-B., Cheung, K.-H., Iyaswamy, A., Song, J.-X. & Li, M., May 2024, In: *Acta Pharmacologica Sinica*. 45, 5, p. 900–913 14 p.

### **Aspartame Causes Developmental Defects and Teratogenicity in Zebra Fish Embryo: Role of Impaired SIRT1/FOXO3a Axis in Neuron Cells**

Pandaram, A., Paul, J., Wankhar, W., Thakur, A., Verma, S., Vasudevan, K., Wankhar, D., Kammala, A. K., Sharma, P., Jaganathan, R., Iyaswamy, A. & Rajan, R., Apr 2024, In: *Biomedicines*. 12, 4, 19 p., 855.

### **Insight into Tetrabromobisphenol A-Associated Liver Transcriptional Landscape via Single Cell RNA Sequencing**

Bai, Y., Zhu, Z., Ou, J., Zhang, W., Iyaswamy, A., Jiang, Y., Wang, J., Zhang, W. & Yang, C., Feb 2024, In: *Advanced Biology*. 8, 2, 2300477.

### **Interaction of Tau with Kinesin-1: Effect of Kinesin-1 Heavy Chain Elimination on Autophagy-Mediated Mutant Tau Degradation**

Selvarasu, K., Singh, A. K., Dakshinamoorthy, A., Sreenivasmurthy, S. G., Iyaswamy, A., Radhakrishnan, M., Patnaik, S., Huang, J. D., Williams, L. L., Senapati, S. & Durairajan, S. S. K., Jan 2024, In: *Biomedicines*. 12, 1, 17 p., 5.

### **Fe65-engineered neuronal exosomes encapsulating corynoxine-B ameliorate cognition and pathology of Alzheimer's disease**

Iyaswamy, A., Thakur, A., Guan, X. J., Krishnamoorthi, S., Fung, T. Y., Lu, K., Gaurav, I., Yang, Z., Su, C.-F., Lau, K.-F., Zhang, K., Ng, R. C. L., Lian, Q., Cheung, K. H., Ye, K., Chen, H. J. & Li, M., 23 Oct 2023, In: *Signal Transduction and Targeted Therapy*. 8, 1, 404.

### **PPAR $\alpha$ Ligand Caudatin Improves Cognitive Functions and Mitigates Alzheimer's Disease Defects By Inducing Autophagy in Mice Models**

Krishnamoorthi, S., Iyaswamy, A., Sreenivasmurthy, S. G., Thakur, A., Vasudevan, K., Kumar, G., Guan, X.-J., Lu, K., Gaurav, I., Su, C.-F., Zhu, Z., Liu, J., Kan, Y., Jayaraman, S., Deng, Z., Chua, K. K., Cheung, K.-H., Yang, Z., Song, J.-X. & Li, M., Sept 2023, In: *Journal of NeuroImmune Pharmacology*. 18, 3, p. 509-528 20 p.

### **Impact and Advances in the Role of Bacterial Extracellular Vesicles in Neurodegenerative Disease and Its Therapeutics**

Iyaswamy, A., Lu, K., Guan, X. J., Kan, Y., Su, C., Liu, J., Jaganathan, R., Vasudevan, K., Paul, J., Thakur, A. & Li, M., Jul 2023, In: *Biomedicines*. 11, 7, 13 p., 2056.

### **Novel Insight into Functions of Transcription Factor EB (TFEB) in Alzheimer's Disease and Parkinson's Disease**

Yang, J., Zhang, W., Zhang, S., Iyaswamy, A., Sun, J., Wang, J. & Yang, C., 17 May 2023, In: *Aging and Disease*. 14, 3, p. 652-669 18 p.

### **Delivery of Apoplatic Extracellular Vesicles Encapsulating Green-Synthesized Silver Nanoparticles to Treat Citrus Canker**

Gaurav, I., Thakur, A., Kumar, G., Long, Q., Zhang, K., Sidu, R. K., Thakur, S., Sarkar, R. K., Kumar, A., Iyaswamy, A. & Yang, Z., 7 Apr 2023, In: *Nanomaterials*. 13, 8, 22 p., 1306.

### **Editorial: Advances in Alzheimer's disease diagnostics, brain delivery systems, and therapeutics**

Iyaswamy, A., Vasudevan, K., Jayaraman, S., Jaganathan, R., Thakur, A., Chang, R. C. C. & Yang, C., 17 Mar 2023, In: *Frontiers in Molecular Biosciences*. 10, 3 p., 1162879.

### **Real-Time Detection and Visualization of Amyloid- $\beta$ Aggregates Induced by Hydrogen Peroxide in Cell and Mouse Models of Alzheimer's Disease**

Wang, X., Iyaswamy, A., Xu, D., Krishnamoorthi, S., Sreenivasmurthy, S. G., Yang, Y., Li, Y., Chen, C., Li, M., Li, H.-W. & Wong, M. S., 11 Jan 2023, In: *ACS Applied Materials and Interfaces*. 15, 1, p. 39–47 9 p.

**The epigenetic correlation among ovarian cancer, endometriosis and PCOS: A review**

Throwba, H. P. K., Unnikrishnan, L., Pangath, M., Vasudevan, K., Jayaraman, S., Li, M., Iyaswamy, A., Palaniyandi, K. & Gnanasampanthapandian, D., Dec 2022, In: *Critical Reviews in Oncology/Hematology*. 180, 18 p., 103852.

**3-Acetylpyridine On-Tissue Paternò-Büchi Derivatization Enabling High Coverage Lipid C=C Location-Resolved MS Imaging in Biological Tissues**

Chen, Y., Xie, C., Wang, X., Cao, G., Ru, Y., Song, Y., Iyaswamy, A., Li, M., Wang, J. & Cai, Z., 8 Nov 2022, In: *Analytical Chemistry*. 94, 44, p. 15367-15376 10 p.

**Bromo-protopine, a novel protopine derivative, alleviates tau pathology by activating chaperone-mediated autophagy for Alzheimer's disease therapy**

Sreenivasmurthy, S. G., Iyaswamy, A., Krishnamoorthi, S., Reddi, R. N., Kammala, A. K., Vasudevan, K., Senapati, S., Zhu, Z., Su, C. F., Liu, J., Guan, X. J., Chua, K. K., Cheung, K. H., Chen, H., Zhang, H. J., Zhang, Y., Song, J. X., Kumar Durairajan, S. S. & Li, M., 26 Oct 2022, In: *Frontiers in Molecular Biosciences*. 9, 1030534.

**Reduction of kinesin I heavy chain decreases tau hyperphosphorylation, aggregation, and memory impairment in Alzheimer's disease and tauopathy models**

Selvarasu, K., Singh, A. K., Iyaswamy, A., Sreenivasmurthy, S. G., Krishnamoorthi, S., Bera, A. K., Huang, J. D. & Durairajan, S. S. K., 25 Oct 2022, In: *Frontiers in Molecular Biosciences*. 9, 16 p., 1050768.

**Tetrandrine ameliorates cognitive deficits and mitigates tau aggregation in cell and animal models of tauopathies**

Tong, B. C. K., Huang, A. S., Wu, A. J., Iyaswamy, A., Ho, O. K. Y., Kong, A. H. Y., Sreenivasmurthy, S. G., Zhu, Z., Su, C., Liu, J., Song, J., Li, M. & Cheung, K. H., 22 Oct 2022, In: *Journal of Biomedical Science*. 29, 19 p., 85.

**Corynoxine B derivative CB6 prevents Parkinsonian toxicity in mice by inducing PIK3C3 complex-dependent autophagy**

Zhu, Z., Liu, L.-F., Su, C.-F., Liu, J., Tong, B. C. K., Iyaswamy, A., Krishnamoorthi, S., Sreenivasmurthy, S. G., Guan, X.-J., Kan, Y.-X., Xie, W.-J., Zhao, C.-L., Cheung, K.-H., Lu, J.-H., Tan, J.-Q., Zhang, H.-J., Song, J.-X. & Li, M., Oct 2022, In: *Acta Pharmacologica Sinica*. 43, 10, p. 2511-2526 16 p.

**Pleiotropic effects of DCLK1 in cancer and cancer stem cells**

Chhetri, D., Vengadassalpathy, S., Venkadassalpathy, S., Balachandran, V., Umopathy, V. R., Veeraraghavan, V. P., Jayaraman, S., Patil, S., Iyaswamy, A., Palaniyandi, K. & Gnanasampanthapandian, D., 26 Sept 2022, In: *Frontiers in Molecular Biosciences*. 9, 25 p., 965730.

**TFEB, a master regulator of autophagy and biogenesis, unexpectedly promotes apoptosis in response to the cyclopentenone prostaglandin 15d-PGJ2**

Yang, C. B., Liu, J., Tong, B. C. K., Wang, Z. Y., Zhu, Z., Su, C. F., Sreenivasmurthy, S. G., Wu, J. X., Iyaswamy, A., Krishnamoorthi, S., Huang, S. Y., Cheung, K. H., Song, J. X., Tan, J. Q., Lu, J. H. & Li, M., May 2022, In: *Acta Pharmacologica Sinica*. 43, 5, p. 1251-1263 13 p.

**Theranostic F-SLOH mitigates Alzheimer's disease pathology involving TFEB and ameliorates cognitive functions in Alzheimer's disease models**

Iyaswamy, A., Wang, X., Krishnamoorthi, S., Kaliamoorthy, V., Sreenivasmurthy, S. G., Kumar Durairajan, S. S., Song, J.-X., Tong, B. C. K., Zhu, Z., Su, C.-F., Liu, J., Cheung, K.-H., Lu, J.-H., Tan, J.-Q., Li, H. W., Wong, M. S. & Li, M., May 2022, In: *Redox Biology*. 51, 21 p., 102280.

**Alzheimer's Disease and other Tauopathies: Exploring Efficacy of Medicinal Plant-Derived Compounds in Alleviating Tau-Mediated Neurodegeneration**

Durairajan, S. S. K., Selvarasu, K., Bera, M. R., Rajaram, K., Iyaswamy, A. & Li, M., Apr 2022, In: *Current Molecular Pharmacology*. 15, 2, p. 361-379 19 p.

**Celastrol enhances transcription factor EB (TFEB)-mediated autophagy and mitigates Tau pathology: Implications for Alzheimer's disease therapy**

Yang, C., Su, C., Iyaswamy, A., Krishnamoorthi, S. K., Zhu, Z., Yang, S., Tong, B. C., Liu, J., Sreenivasmurthy, S. G., Guan, X., Kan, Y., Wu, A. J., Huang, A. S., Tan, J., Cheung, K., Song, J. & Li, M., Apr 2022, In: *Acta Pharmaceutica Sinica B*. 12, 4, p. 1707-1722 16 p.

### **Mechanistic Insights into Selective Autophagy Subtypes in Alzheimer's Disease**

Guan, X., Iyaswamy, A., Sreenivasmurthy, S. G., Su, C., Zhu, Z., Liu, J., Kan, Y., Cheung, K. H., Lu, J., Tan, J. & Li, M., Apr 2022, In: International Journal of Molecular Sciences. 23, 7, 22 p., 3609.

### **Klotho an Autophagy Stimulator as a Potential Therapeutic Target for Alzheimer's Disease: A Review**

Fung, T. Y., Iyaswamy, A., Sreenivasmurthy, S. G., Krishnamoorthi, S., Guan, X. J., Zhu, Z., Su, C. F., Liu, J., Kan, Y., Zhang, Y., Wong, H. L. X. & Li, M., 18 Mar 2022, In: Biomedicines. 10, 3, 705.

### **Lysosomal TPCN (two pore segment channel) inhibition ameliorates beta-amyloid pathology and mitigates memory impairment in Alzheimer disease**

Tong, B. C. K., Wu, A. J., Huang, A. S., Dong, R., Malampati, S., Iyaswamy, A., Krishnamoorthi, S., Sreenivasmurthy, S. G., Zhu, Z., Su, C., Liu, J., Song, J., Lu, J. H., Tan, J., Pan, W., Li, M. & Cheung, K. H., 4 Mar 2022, In: Autophagy. 18, 3, p. 624-642 19 p.

### **Protopine promotes the proteasomal degradation of pathological tau in Alzheimer's disease models via HDAC6 inhibition**

Sreenivasmurthy, S. G., Iyaswamy, A., Krishnamoorthi, S., Senapati, S., Malampati, S., Zhu, Z., Su, C. F., Liu, J., Guan, X. J., Tong, B. C. K., Cheung, K. H., Tan, J. Q., Lu, J. H., Durairajan, S. S. K., Song, J. X. & Li, M., Feb 2022, In: Phytomedicine. 96, 14 p., 153887.

### **Enhancing autophagy maturation with CCZ1-MON1A complex alleviates neuropathology and memory defects in Alzheimer disease models**

Cai, C. Z., Zhuang, X. X., Zhu, Q., Wu, M. Y., Su, H., Wang, X. J., Iyaswamy, A., Yue, Z., Wang, Q., Zhang, B., Xue, Y., Tan, J., Li, M., He, H. & Lu, J. H., 24 Jan 2022, In: Theranostics. 12, 4, p. 1738-1755 18 p.

### **Chronic oral administration of adipoRon reverses cognitive impairments and ameliorates neuropathology in an Alzheimer's disease mouse model**

Ng, R. C. L., Jian, M., Ma, O. K. F., Bunting, M., Kwan, J. S. C., Zhou, G. J., Krishnamoorthi, S., Iyaswamy, A., Chan, P. K., Li, M., Leung, K. M. Y., Durairajan, S. S. K., Lam, K. S. L., Chu, L. W., Festenstein, R., Chung, S. K. & Chan, K. H., Oct 2021, In: Molecular Psychiatry. 26, 10, p. 5669-5689 21 p.

### **Qingyangshen mitigates amyloid- $\beta$ and Tau aggregate defects involving PPAR $\alpha$ -TFEB activation in transgenic mice of Alzheimer's disease**

Iyaswamy, A., Krishnamoorthi, S. K., Zhang, H., SREENIVASA MURTHY, S. G. S., Zhu, Z., Liu, J., Su, C. F., Guan, X. J., Wang, Z. Y., Cheung, K. H., Song, J., Durairajan, S. S. K. & Li, M., Oct 2021, In: Phytomedicine. 91, 153648.

### **Peptide-conjugated nano delivery systems for therapy and diagnosis of cancer**

Gaurav, I., Wang, X., Thakur, A., Iyaswamy, A., Thakur, S., Chen, X., Kumar, G., Li, M. & Yang, Z., Sept 2021, In: Pharmaceutics. 13, 9, 1433.

### **Resveratrol in Rodent Models of Parkinson's Disease: A Systematic Review of Experimental Studies**

Su, C. F., Jiang, L., Zhang, X.-W., Iyaswamy, A. & Li, M., 22 Apr 2021, In: Frontiers in Pharmacology. 12, 10 p., 644219.

### **Factors affecting extracellular vesicles based drug delivery systems**

Gaurav, I., Thakur, A., Iyaswamy, A., Wang, X., Chen, X. & Yang, Z., 2 Mar 2021, In: Molecules. 26, 6, 19 p., 1544.

### **Amyloid- $\beta$ oligomer targeted theranostic probes for in vivo NIR imaging and inhibition of self-aggregation and amyloid- $\beta$ induced ROS generation**

Wang, X., Wang, C., Chan, H. N., Ashok, I., Krishnamoorthi, S. K., Li, M., Li, H. W. & Wong, R. M. S., 1 Mar 2021, In: Talanta. 224, 121830.

### **Traditional Chinese medicine compounds regulate autophagy for treating neurodegenerative disease: A mechanism review**

Wang, Z. Y., Liu, J., Zhu, Z., Su, C. F., Sreenivasmurthy, S. G., Iyaswamy, A., Lu, J. H., Chen, G., Song, J. X. & Li, M., Jan 2021, In: Biomedicine and Pharmacotherapy. 133, 14 p., 110968.

**Modified Huang-Lian-Jie-Du-Tang and its combination with memantine for Alzheimer disease: an in vivo study (abridged secondary publication)**

Durairajan, S. S. K., Li, M., Chung, S. K., Han, Q. B., Iyaswamy, A., Sreenivasmurthy, S. G., Malampati, S. & Kammala, A. K., Dec 2020, In: Hong Kong Medical Journal. 26, 6, Suppl 7, p. S33-S36 4 p.

**Yuan-Hu Zhi Tong Prescription Mitigates Tau Pathology and Alleviates Memory Deficiency in the Preclinical Models of Alzheimer's Disease**

Iyaswamy, A., Krishnamoorthi, S. K., Liu, Y. W., Song, J., Kammala, A. K., Sreenivasmurthy, S. G., Malampati, S., Tong, C. K. B., Selvarasu, K., Cheung, K. H., Lu, J., Tan, J., Huang, C.-Y., Durairajan, S. S. K. & Li, M., 30 Oct 2020, In: Frontiers in Pharmacology. 11, 584770.

**A stress response p38 MAP kinase inhibitor SB202190 promoted TFEB/TFE3-dependent autophagy and lysosomal biogenesis independent of p38**

Yang, C., Zhu, Z., Tong, C. K. B., Iyaswamy, A., Xie, W. J., Zhu, Y., Sreenivasmurthy, S. G., Senthilkumar, K., Cheung, K. H., Song, J. X., Zhang, H. & Li, M., May 2020, In: Redox Biology. 32, 101445.

**A curcumin derivative activates TFEB and protects against parkinsonian neurotoxicity in vitro**

Wang, Z., Yang, C., Liu, J., Tong, C. K. B., Zhu, Z., Malampati, S., Sreenivasmurthy, S. G., Cheung, K. H., Iyaswamy, A., Su, C., Lu, J., Song, J. & Li, M., 2 Feb 2020, In: International Journal of Molecular Sciences. 21, 4, 1515.

**A small molecule transcription factor EB activator ameliorates beta-amyloid precursor protein and Tau pathology in Alzheimer's disease models**

Song, J. X., Malampati, S., Zeng, Y., Durairajan, S. S. K., Yang, C., Tong, C. K. B., Iyaswamy, A., Shang, W. B., Sreenivasmurthy, S. G., Zhu, Z., Cheung, K. H., Lu, J. H., Tang, C., Xu, N. & Li, M., Feb 2020, In: Aging Cell. 19, 2, e13069.

**Targeting aggrephagy for the treatment of Alzheimer's disease**

Malampati, S., Song, J. X., Chun-Kit Tong, B., Nalluri, A., Yang, C.-B., Wang, Z., Gopalkrishnashetty Sreenivasmurthy, S., Zhu, Z., Liu, J., Su, C., Krishnamoorthi, S., Iyaswamy, A., Cheung, K.-H., Lu, J.-H. & Li, M., Feb 2020, In: Cells. 9, 2, 21 p., 311.

**NeuroDefend, a novel Chinese medicine, attenuates amyloid- $\beta$  and tau pathology in experimental Alzheimer's disease models**

Iyaswamy, A., Krishnamoorthi, S. K., Song, J. X., Yang, C. B., Kaliyamoorthy, V., Zhang, H., Sreenivasmurthy, S. G., Malampati, S., Wang, Z. Y., Zhu, Z., Tong, B. C. K., Cheung, K. H., Lu, J. H., Durairajan, S. S. K. & Li, M., Jan 2020, In: Journal of Food and Drug Analysis. 28, 1, p. 132-146 15 p.

**Uses and Development of Neurodefend for Treating neurodegenerative Diseases (Granted)**

LI, M. (Inventor), IYASWAMY, A. (Inventor), DURAIRAJAN, S. S. K. (Inventor), KRISHNAMOORTHY, S. (Inventor), ZHANG, H. (Inventor) & SREENIVASAMURTHY, S. G. S. (Inventor), 24 Sept 2019, IPC No. A61-LM-Nede-CN01, Patent No. ZL 201910197461.5, 15 Mar 2019, Priority No. 201910197461.5

**Uses and Development of Neurodefend for Treating neurodegenerative Diseases (Granted)**

LI, M. (Inventor), IYASWAMY, A. (Inventor), DURAIRAJAN, S. S. K. (Inventor), KRISHNAMOORTHY, S. (Inventor), ZHANG, H. (Inventor) & SREENIVASAMURTHY, S. G. S. (Inventor), 19 Sept 2019, IPC No. A61-LM-Nede-US01, Patent No. US 11167000, 14 Dec 2018, Priority date 16 Mar 2018, Priority No. 16/219,976

**Balancing mTOR signaling and autophagy in the treatment of Parkinson's disease**

Zhu, Z., Yang, C., Iyaswamy, A., Krishnamoorthi, S., Sreenivasmurthy, S. G., Liu, J., Wang, Z., Tong, C. K. B., Song, J., Lu, J., Cheung, K.-H. & Li, M., 1 Feb 2019, In: International Journal of Molecular Sciences. 20, 3, 728.

**Oxidative stress evoked damages leading to attenuated memory and inhibition of NMDAR-CaMKII-ERK/CREB signalling on consumption of aspartame in rat model**

Iyaswamy, A., Kammella, A. K., Thavasimuthu, C., Wankupar, W., Dapkupar, W., Shanmugam, S., Rajan, R. & Rathinasamy, S., Apr 2018, In: Journal of Food and Drug Analysis. 26, 2, p. 903-916 14 p.

**NRBF2 is involved in the autophagic degradation process of APP-CTFs in Alzheimer disease models**

Yang, C., Cai, C. Z., Song, J., Tan, J. Q., Durairajan, S. S. K., Iyaswamy, A., Wu, M. Y., Chen, L. L., Yue, Z., Li, M. & Lu, J. H., 2 Dec 2017, In: *Autophagy*. 13, 12, p. 2028-2040 13 p.

**Decrease in the Generation of Amyloid- $\beta$  Due to Salvianolic Acid B by Modulating BACE1 Activity**

Durairajan, S. S. K., Chirasani, V. R., Shetty, S. G., Iyaswamy, A., Malampati, S., Song, J., Liu, L., Huang, J., Senapati, S. & Li, M., Nov 2017, In: *Current Alzheimer Research*. 14, 11, p. 1229-1237 9 p.

**A modified formulation of Huanglian-Jie-Du-Tang reduces memory impairments and  $\beta$ -amyloid plaques in a triple transgenic mouse model of Alzheimer's disease**

Durairajan, S. S. K., Iyaswamy, A., Shetty, S. G., Kammella, A. K., Malampati, S., Shang, W., Yang, C., Song, J., Chung, S., Huang, J., Ilango, K., Han, S. Q. B. & Li, M., 24 Jul 2017, In: *Scientific Reports*. 7, 1, 6238.

**Oxidative stress evoked damages on rat sperm and attenuated antioxidant status on consumption of aspartame**

Ashok, I., Poomima, P. S., Wankhar, D., Ravindran, R. & Sheeladevi, R., 1 Jul 2017, In: *International Journal of Impotence Research*. 29, 4, p. 164-170 7 p.

**Disruption of redox homeostasis in liver function and activation of apoptosis on consumption of aspartame in folate deficient rat model**

Iyaswamy, A., Wankhar, D., Loganathan, S., Shanmugam, S., Rajan, R. & Rathinasamy, S., Jun 2017, In: *Journal of Nutrition and Intermediary Metabolism*. 8, p. 41-50 10 p.

**Neurobehavioral changes and activation of neurodegenerative apoptosis on long-term consumption of aspartame in the rat brain**

Ashok, I., Wankhar, D., Wankhar, W. & Sheeladevi, R., 1 Dec 2015, In: *Journal of Nutrition and Intermediary Metabolism*. 2, 3-4, p. 76-85 10 p.

**Oxidant stress evoked damage in rat hepatocyte leading to triggered nitric oxide synthase (NOS) levels on long term consumption of aspartame**

Ashok, I. & Sheeladevi, R., Dec 2015, In: *Journal of Food and Drug Analysis*. 23, 4, p. 679-691 13 p.

**Acute effect of aspartame-induced oxidative stress in Wistar albino rat brain**

Ashok, I., Sheeladevi, R. & Wankhar, D., Sept 2015, In: *Journal of Biomedical Research*. 29, 5, p. 390-396 7 p.

**Biochemical responses and mitochondrial mediated activation of apoptosis on long-term effect of aspartame in rat brain**

Ashok, I. & Sheeladevi, R., Apr 2014, In: *Redox Biology*. 2, p. 820-831 12 p.

**Emblica officinalis outcome on noise stress induced behavioural changes in wistar albino rats**

Wankhar, D., Sheela Devi, R. & Ashok, I., Apr 2014, In: *Biomedicine and Preventive Nutrition*. 4, 2, p. 219-224 6 p.

**Long-term effect of aspartame on the liver antioxidant status and histopathology in Wistar albino rats**

Ashok, I., Wankhar, D., Sheeladevi, R. & Wankhar, W., Apr 2014, In: *Biomedicine and Preventive Nutrition*. 4, 2, p. 299-305 7 p.

**Effect of long-term aspartame (artificial sweetener) on anxiety, locomotor activity and emotionality behavior in Wistar Albino rats**

Ashok, I., Sheeladevi, R. & Wankhar, D., Jan 2014, In: *Biomedicine and Preventive Nutrition*. 4, 1, p. 39-43 5 p.

**Efficacy of accumulation on heavy metals from aqueous solution using water hyacinth (Eichhornia Crassipes)**

Ashok, I., Balaji, R., Sakthivel, S. & Sasikumar, S., Jan 2014, In: *Asian Journal of Microbiology, Biotechnology and Environmental Sciences*. 16, 1, p. 115-120 6 p.

## Grants

## Projects

**Investigating the mechanism of (-)Schisandrin B on the treatment of Parkinson's disease via regulating ATG16L1/NLRP3 signalling pathway**

LI, M. (PI), Song, J.-X. (Col), IYASWAMY, A. (Col) & DENG, Z. (Col)

9/10/24 → 8/10/27

**Neuroprotective effects Chinese medicine Corynoxine in experimental Alzheimer's disease via autophagy induction**

IYASWAMY, A. (PI)

1/09/20 → 31/08/23