

PUBLICATIONS

More than 140 Research articles in leading International journals, 180 Conference papers, 20 chapters in books have been published. Published 6 patents, Edited 2 books and deposited 149 gene sequences and 280 protein sequences, 23 GEO Datasets and 3 OMIM records in public databases such as NCBI and Protein databases (USA and worldwide).

PUBMED LISTED PUBLICATIONS:

117: Tan JR, Tan KS, Yong FL, Armugam A, Wang CW, **Jeyaseelan K**, Wong PT. MicroRNAs regulating cluster of differentiation 46 (CD46) in cardioembolic and non-cardioembolic stroke, PLoSOne, 2017, 12 (2): e0172131. PMID: 28199366

116: Martinez EC, Lilyanna S, Wang P, Vardy LA, Jiang X, Armugam A, **Jeyaseelan K**, Richards AM. MicroRNA-31 promotes adverse cardiac remodelling and dysfunction in ischemic heart disease. J.Mol. Cell Cardiol. 2017, 112: 27-39. PMID:28865712

115: Silambarasan M, Tan JR, Karolina DS, Armugam A, Kaur C, **Jeyaseelan K**. microRNAs in hyperglycemia induced endothelial cell dysfunction. Int J Mol Sci, 2016 17, 518. PMID:27070575

114: Kaur P, Tan JR, Karolina DS, Sepramaniam S, Armugam A, Wong PT, **Jeyaseelan K**. A long non-coding RNA, BC048612 and a microRNA, miR-203 coordinate the gene expression of neuronal growth regulator 1 (NEGR1) adhesion protein. Biochim Biophys Acta. 2016 Apr;1863(4):533-43.

113: Kaur P, Tan JR, Karolina DS, Sepramaniam S, Armugam A, Peter Wong TH, **Jeyaseelan K**. Supporting data for characterization of non-coding RNAs associated with the Neuronal growth regulator 1 (NEGR1) adhesion protein. Data Brief. 2016 Feb 27;7:381-5.

112: Xie WY, Low WJ Jason, Armugam A, **Jeyaseelan K**, Tong YW (2015). Regulation of Aquaporin Z osmotic permeability in ABA tri-block copolymer. Biophysics, 2(3); 381-397.

111: Tambyah PA, Chai S, Sepramaniam S, Mohamed Ali J, Armugam A, **Jeyaseelan K**. ANNALS EXPRESS: microRNA expression in blood of dengue patients. Ann Clin Biochem. 2015 Aug 19. pii: 0004563215604001. [Epub ahead of print] PubMed PMID: 26290515.

110: Liu FJ, Kaur P, Karolina DS, Sepramaniam S, Armugam A, Wong PT, **Jeyaseelan K**. MiR-335 Regulates Hif-1 α to Reduce Cell Death in Both Mouse Cell Line and Rat Ischemic Models. PLoS One. 2015 Jun 1;10(6):e0128432.

109: Wong LL, Armugam A, Sepramaniam S, Karolina DS, Lim KY, Lim JY, Chong JP, Ng JY, Chen YT, Chan MM, Chen Z, Yeo PS, Ng TP, Ling LH, Sim D, Leong KT, Ong HY, Jaufeerally F, Wong R, Chai P, Low AF, Lam CS, **Jeyaseelan K**, Richards AM. Circulating microRNAs in heart failure with reduced and preserved left ventricular ejection fraction. Eur J Heart Fail. 2015 Apr;17(4):393-404

108: Wong LL, Wee AS, Lim JY, Ng JY, Chong JP, Liew OW, Lilyanna S, Martinez EC, Ackers-Johnson MA, Vardy LA, Armugam A, **Jeyaseelan K**, Ng TP, Lam CS, Foo RS, Richards AM, Chen YT. Natriuretic Peptide Receptor 3 (NPR3) is regulated by microRNA-100. *J Mol Cell Cardiol.* 2015 Feb 28;82:13-21.

107: Fung SY, Sim SM, **Kandiah, Jeyaseelan**, Armugam A, Aguiyi JC, Tan NH. Prophylactic effect of *Mucuna pruriens* Linn (velvet bean) seed extract against experimental *Naja sputatrix* envenomation: gene expression studies. *Indian J Exp Biol.* 2014 Sep;52(9):849-59.

106: Karolina DS, Armugam A, Sepramaniam S, Pek SLT, Wong MTK, Lim SC, Sum CF, Tavintharan S and **Jeyaseelan K**. miR-22 and miR-23a Control Glycerol-Dependent Gluconeogenesis by Regulating Aquaporin 9 Expression. *Metabolomics* S2:002. doi: 10.4172/2153-0769.S2-002

105: Sepramaniam S, Tan JR, Tan KS, Desilva DA, Tavintharan S, Woon FP, Wang CW, Yong FL, Karolina DS, Kaur P, Liu FJ, Lim KY, Armugam A, **Jeyaseelan K**. [Circulating MicroRNAs as Biomarkers of Acute Stroke.](#) *Int J Mol Sci.* 2014 Jan 20;15(1):1418-32. doi: 10.3390/ijms15011418

104: Tambyah PA, Sepramaniam S, Mohamed Ali J, Chai SC, Swaminathan P, Armugam A, **Jeyaseelan K**. [microRNAs in Circulation Are Altered in Response to Influenza A Virus Infection in Humans.](#) *PLoS One.* 2013 Oct 7;8(10):e76811. doi: 10.1371/journal.pone.0076811

103: Setyowati Karolina D, Sepramaniam S, Tan HZ, Armugam A, **Jeyaseelan K**. [miR-25 and miR-92a regulate insulin I biosynthesis in rats.](#) *RNA Biol.* 2013 Aug 1;10(8):1365-78. doi: 10.4161/rna.25557

102: Fong CY, Tam K, Cheyyatraivendran S, Gan SU, Gauthaman K, Armugam A, **Jeyaseelan K**, Choolani M, Biswas A, Bongso A. [Human umbilical cord Wharton's jelly stem cells and its conditioned medium enhance healing of excisional and diabetic wounds.](#) *J Cell Biochem.* 2013 Aug 29. doi: 10.1002/jcb.24661

101: Liu F, Lim KY, Kaur P, Sepramaniam S, Armugam A, Wong PTH and Jeyaseelan K. microRNAs involved in regulating spontaneous recovery in embolic stroke model *PLoS One*, 2013 Jun 18; 8(6): e66393. PMID:23823624.

100: Sepramaniam S, **Jeyaseelan K**. Era of the tiny titans: microRNAs. *Bioessays.* 2013 Apr 10. doi: 10.1002/bies.201300025. [Epub ahead of print] PubMed PMID:23575812.

99: Tan JR, Tan KS, Koo YX, Yong FL, Wang CW, Armugam A, **Jeyaseelan K**. Blood microRNAs in Low or No Risk Ischemic Stroke Patients. *Int J Mol Sci.* 2013 Jan 22;14(1):2072-84. doi: 10.3390/ijms14012072. PubMed PMID: 23340648

98: Lin J, Teo S, Lam DH, **Jeyaseelan K**, Wang S. MicroRNA-10b pleiotropically regulates invasion, angiogenicity and apoptosis of tumor cells resembling mesenchymal subtype of

glioblastoma multiforme. *Cell Death Dis.* 2012 Oct 4;3:e398. doi: 10.1038/cddis.2012.134. PubMed PMID: 23034333.

97: Karolina DS, Tavintharan S, Armugam A, Sepramaniam S, Pek SL, Wong MT, Lim SC, Sum CF, **Jeyaseelan K**. Circulating miRNA profiles in patients with metabolic syndrome. *J Clin Endocrinol Metab.* 2012 Dec;97(12):E2271-6. doi: 10.1210/jc.2012-1996. Epub 2012 Oct 2. PubMed PMID: 23032062.

96: Sun G, Chung TS, **Jeyaseelan K**, Armugam A. Stabilization and immobilization of aquaporin reconstituted lipid vesicles for water purification. *Colloids Surf B Biointerfaces.* 2013 Feb 1;102:466-71. doi: 10.1016/j.colsurfb.2012.08.009. Epub 2012 Aug 30. PubMed PMID: 23022601.

95: Kaur P, Ghariwala V, Yeo KS, Tan HZ, Tan JC, Armugam A, Strong PN, **Jeyaseelan K**. Biochemistry of envenomation. *Adv Clin Chem.* 2012;57:187-252. Review. PubMed PMID: 22870591.

94: Chai SC, Armugam A, Strong PN, **Jeyaseelan K**. Characterization of bumarsin, a 3-hydroxy-3-methylglutaryl-coenzyme reductase inhibitor from *Mesobuthus martensii* Karsch venom. *Toxicon.* 2012 Sep 1;60(3):272-9. doi:10.1016/j.toxicon.2012.04.352. Epub 2012 May 7. PubMed PMID: 22575281.

93: Kaur P, Armugam A, **Jeyaseelan K**. MicroRNAs in Neurotoxicity. *J Toxicol.* 2012;2012:870150. doi: 10.1155/2012/870150. Epub 2012 Mar 6. PubMed PMID:22523492.

92: Armugam A, Koh DC, Ching CS, Chandrasekaran K, Kaur P, **Jeyaseelan K**. Pro-domain in precursor nerve growth factor mediates cell death. *Neurochem Int.* 2012 Jun;60(8):852-63. doi: 10.1016/j.neuint.2012.03.006. Epub 2012 Mar 28. PubMed PMID: 22480846.

91: Wang H, Chung TS, Tong YW, **Jeyaseelan K**, Armugam A, Chen Z, Hong M, Meier W. Highly permeable and selective pore-spanning biomimetic membrane embedded with aquaporin Z. *Small.* 2012 Apr 23;8(8):1185-90, 1125. doi: 10.1002/smll.201102120. Epub 2012 Feb 29. Erratum in: *Small.* 2012 Jul 9;8(13):1969. PubMed PMID: 22378644.

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89: Chandrasekaran K, Karolina DS, Sepramaniam S, Armugam A, Wintour EM, Bertram JF, **Jeyaseelan K**. Role of microRNAs in kidney homeostasis and disease. *Kidney Int.* 2012 Apr;81(7):617-27. doi: 10.1038/ki.2011.448. Epub 2012 Jan 11. Review. PubMed PMID: 22237749.

88: Sun G, Zhou H, Li Y, **Jeyaseelan K**, Armugam A, Chung TS. A novel method of AquaporinZ incorporation via binary-lipid Langmuir monolayers. *Colloids Surf B Biointerfaces.* 2012 Jan

1;89:283-8. doi: 10.1016/j.colsurfb.2011.09.004. Epub 2011 Sep 10. PubMed PMID: 21955504.

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85: Tan JR, Koo YX, Kaur P, Liu F, Armugam A, Wong PT, **Jeyaseelan K**. microRNAs in stroke pathogenesis. *Curr Mol Med*. 2011 Mar;11(2):76-92. Review. PubMed PMID: 21342133.

84: Sepramaniam S, Armugam A, Lim KY, Karolina DS, Swaminathan P, Tan JR, **Jeyaseelan K**. MicroRNA 320a functions as a novel endogenous modulator of aquaporins 1 and 4 as well as a potential therapeutic target in cerebral ischemia. *J Biol Chem*. 2010 Sep 17;285(38):29223-30. doi:10.1074/jbc.M110.144576. Epub 2010 Jul 13. PubMed PMID: 20628061.

83: Karolina DS, Wintour EM, Bertram J, **Jeyaseelan K**. Riboregulators in kidney development and function. *Biochimie*. 2010 Mar;92(3):217-25. doi:10.1016/j.biochi.2009.12.008. Epub 2009 Dec 31. Review. PubMed PMID: 20045037.

82: Tan KS, Armugam A, Sepramaniam S, Lim KY, Setyowati KD, Wang CW, **Jeyaseelan K**. Expression profile of MicroRNAs in young stroke patients. *PLoS One*. 2009 Nov 2;4(11):e7689. doi: 10.1371/journal.pone.0007689. PubMed PMID: 19888324.

81: Armugam A, Cher CD, Lim K, Koh DC, Howells DW, **Jeyaseelan K**. A secretory phospholipase A2-mediated neuroprotection and anti-apoptosis. *BMC Neurosci*. 2009 Sep 23;10:120. doi: 10.1186/1471-2202-10-120. PubMed PMID: 19775433.

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78: Jessica Chen M, Sepramaniam S, Armugam A, Shyan Choy M, Manikandan J, Melendez AJ, **Jeyaseelan K**, Sang Cheung N. Water and ion channels: crucial in the initiation and progression of apoptosis in central nervous system? *Curr Neuropharmacol*. 2008 Jun;6(2):102-16. doi: 10.2174/157015908784533879. PubMed PMID: 19305791.

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stress with early calpain activation. *Toxicol.* 2008 May;51(6):964-73. doi: 10.1016/j.toxicol.2007.11.019. Epub 2007 Nov 29. PubMed PMID: 18377942.

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74: Newton KA, Clench MR, Deshmukh R, **Jeyaseelan K**, Strong PN. Mass fingerprinting of toxic fractions from the venom of the Indian red scorpion, *Mesobuthus tamulus*: biotope-specific variation in the expression of venom peptides. *Rapid Commun Mass Spectrom.* 2007;21(21):3467-76. PubMed PMID: 17918210.

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72: Tavintharan S, Ong CN, **Jeyaseelan K**, Sivakumar M, Lim SC, Sum CF. Reduced mitochondrial coenzyme Q10 levels in HepG2 cells treated with high-dose simvastatin: a possible role in statin-induced hepatotoxicity? *Toxicol Appl Pharmacol.* 2007 Sep 1;223(2):173-9. Epub 2007 May 26. PubMed PMID: 17610923.

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68: Cher CD, Armugam A, Zhu YZ, **Jeyaseelan K**. Molecular basis of cardiotoxicity upon cobra envenomation. *Cell Mol Life Sci.* 2005 Jan;62(1):105-18. PubMed PMID:15619012.

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- 50: Ho LC, **Jeyaseelan K**, Singh M. Use of the elongation factor-1 alpha gene in a polymerase chain reaction-based restriction-fragment-length polymorphism analysis of genetic heterogeneity among *Blastocystis* species. *Mol Biochem Parasitol*. 2001 Feb;112(2):287-91. PubMed PMID: 11223135.
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