




Bharathiar University

State University | "A++" Grade by NAAC | 46th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

Dr P EKAMBARAM Professor and Head Department of Biotechnology Bharathiar University Tamil Nadu E-mail: ekas2009@buc.edu.in Phone: 9865454419 Office Number: 0422-2428293	
Research Area <ul style="list-style-type: none">• Molecular Toxicology• Neurobiology• Cancer Biology• Systems Biology	Courses Teaching <ul style="list-style-type: none">• Developmental Biology and Human Physiology• Stem cell biology and Tissue Engineering• Animal Biotechnology
Research Experience: 25	Teaching Experience: 23
Research Credentials (as on September 2025 – Source: Google scholar) H-index: 33 Citations: 5096 i10-index: 67	
Publications International Journals: 90 National Journals: 4 Books/Chapters: 4 Conferences: 2	
Career At Bharathiar University <ol style="list-style-type: none">1. Designation : Assistant Professor Period : June 2005 - June 20152. Designation : Professor Period : July 2018 - June 20323. Designation : Associate Professor Period : July 2015 - June 20184. Designation : Guest Faculty Period : July 2002 - May 20035. Designation : Lecturer Period : July 2001 - May 2002 Other Institutes <ol style="list-style-type: none">1. Designation : Post Doctoral Fellow Institution Name : National Tsing-Hua University, Hsinchu, Taiwan Period : September 2003 - April 20042. Designation : Scientist Institution Name : Zoological Survey of India, Kolkata Period : December 2004 - June 2005	
Education Ph. D. Subject : Zoology Institution : University Of Madras Affiliated University : University Of Madras Year of Award : March 2001	



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Dr P EKAMBARAM , Professor and Head , Department of Biotechnology

M. Phil.

Subject : Zoology

Institution : Madras Christian College

Affiliated University : University of Madras

Year of Award : April 1997

M. Sc.

Subject : Zoology

Institution : Madras Christian College

Affiliated University : University of Madras

Year of Award : November 1995

B. Sc.

Subject : Zoology

Institution : Pachaiyappa's College, Chennai

Affiliated University : University of Madras

Year of Award : December 1992

Projects

National Level

Ongoing - 1 completed - 8

International Level

Ongoing - 1 completed -

Research Guidance

Completed

Ph.D. - 13

On Going

Ph.D. - 6

Institutional Responsibilities

IAEC-Chairman

Period : Jan 1970 to Till date

Nature of Responsibility :

CIC-Confocal Microscopy Faculty In-Charge

Period : Jan 1970 to Till date

Nature of Responsibility :

Visits

1. Postdoctoral Research. (2004-04-30 - 2003-08-01)
2. Oral Presentation – Malaysia Zebrafish Disease Model Workshop. (2015-11-02 -)

Programs organized

1. National Workshop on Techniques in Molecular Toxicology (2013-12-16 - 2013-12-20)
2. One Day Virtual Research Training on "Zebrafish Use in Biological Research (2021-01-25 -)
3. National Workshop on Zebrafish as a Tool for Neurotoxicity Research (2022-08-16 - 2022-08-18)
4. Workshop on Laser Scanning Advanced Confocal Microscopy (2022-02-14 - 2022-02-18)
5. Workshop on Confocal Microscopy for Biological Research (2022-07-18 - 2022-07-22)

Publications

International Journals - 90

90. Esculin Exerts Nrf2-Mediated Antioxidant Response in DrF Cell Lines and Zebrafish Larvae

Chemico-Biological Interactions (July 2025)

S Babu, E Perumal, M Sivaraj, SA Majeed, ASS Hameed



89. Antioxidant effect of esculin and sulforaphane in zebrafish larvae: A comparative study

Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology (July 2025)
Srija Babu, Vignesh Sundarraja, Suryaa Manoharan, Ekambaram Perumal

88. Esculin, a Coumarin Glucoside Prevents Fluoride-Induced Oxidative Stress and Cardiotoxicity in Zebrafish Larvae

Environmental Toxicology (April 2025)
Srija Babu, Naveen Surya Velmani, Suryaa Manoharan, Ekambaram Perumal

87. Copper oxide nanoparticles induced reactive oxygen species generation: A systematic review and meta-analysis

Chemico-Biological Interactions (January 2025)
Srimathi Murugesan, Satheeswaran Balasubramanian, Ekambaram Perumal

86. Fluoride Exposure Modulates Skeletal Development and Mineralization in Zebrafish Larvae

Environmental Toxicology (January 2025)
Harsheema Ottappilakkil, Ekambaram Perumal

85. Acute exposure to environmentally relevant concentrations of pharmaceutical pollutants induces neurobehavioral toxicity in zebrafish (Danio rerio)

Drug and Chemical Toxicology (January 2025)
Vasanth Dhakshinamoorthy, SPR Vishali, Sriramakrishnan Elumalai, Ekambaram Perumal

84. Chemotherapeutic potential of radotinib against blood and solid tumors: A beacon of hope in drug repurposing

Bioorganic Chemistry (January 2025)
Suryaa Manoharan, Ekambaram Perumal

83. Early-stage biomarkers identification by integrated genomic analysis in hepatocellular carcinoma

Medicine in Omics (December 2024)
Suryaa Manoharan, Ekambaram Perumal

82. Integrated in silico analysis of transcriptomic alterations in nanoparticle toxicity across human and mouse models

Science of The Total Environment (November 2024)
Satheeswaran Balasubramanian, Ekambaram Perumal

81. Targeting STAT3, FOXO3a, and Pim-1 kinase by FDA-approved tyrosine kinase inhibitor-Radotinib: An in silico and in vitro approach

Archiv der Pharmazie (October 2024)
Suryaa Manoharan, Aksayakeerthana Santhakumar, Ekambaram Perumal

80. A strategic review of STAT3 signaling inhibition by phytochemicals for cancer prevention and treatment: Advances and insights

Fitoterapia (October 2024)
Suryaa Manoharan, Ekambaram Perumal

79. A comprehensive review of targeting early-stage biomarkers by small molecules and phytochemicals in hepatocellular carcinoma

Phytochemistry Reviews (September 2024)
S Manoharan, I Govindaraju, V Venkatesan, E Perumal

78. Neurobehavioral effects of nanoparticles in zebrafish: a systematic review and meta-analysis

OSF (September 2024)
Satheeswaran Balasubramanian, Ekambaram Perumal

77. MicroRNAs in fluorosis pathogenesis: impact on dental, skeletal, and soft tissues

Archives of Toxicology (September 2024)
Suryaa Manoharan, Syed Saadullah Ashfaq, Ekambaram Perumal



76. Virtual screening of FOXO3a activators from natural product-like compound library

Molecular Diversity (September 2024)

Suryaa Manoharan, Kunjkumar Prajapati, Tharini Karthikeyan, Hemamalini Vedagiri, Ekambaram Perumal

75. Identification of key genes and signalling pathways in clear cell renal cell carcinoma: An integrated bioinformatics approach

Cancer Biomarkers (September 2024)

S Vinoth, Satheeswaran Balasubramanian, Ekambaram Perumal, Kirankumar Santhakumar

74. MAO inhibiting phytochemicals from the roots of Glycyrrhiza glabra L.

Journal of Biomolecular Structure and Dynamics (May 2024)

Monojit Bhattacharjee, Suryaa Manoharan, Umamaheswari Sathisaran, Anand Tamatam, Ekambaram Perumal

73. Natural bioactive compounds and FOXO3a in cancer therapeutics: an update

Fitoterapia (March 2024)

Suryaa Manoharan, Kunjkumar Prajapati, Ekambaram Perumal

72. Angiogenesis Assay for Live and Fixed Zebrafish Embryos/Larvae

Teratogenicity Testing: Methods and Protocols (January 2024)

S Vinoth, Satheeswaran Balasubramanian, Ekambaram Perumal, Kirankumar Santhakumar

71. Natural bioactive compounds and STAT3 against hepatocellular carcinoma: An update

Life sciences (January 2024)

Suryaa Manoharan, Shreejit Saha, Krishnasanthiya Murugesan, Aksayakeerthana Santhakumar, Ekambaram Perumal

70. Acute copper oxide nanoparticles exposure alters zebrafish larval microbiome

Life Sciences (January 2024)

Satheeswaran Balasubramanian, Mariam Azeezuddin Haneen, Gaurav Sharma, Ekambaram Perumal

69. Toxicogenomic analysis of physiologically important metals: An integrated in silico approach

Food and Chemical Toxicology (September 2023)

Satheeswaran Balasubramanian, Vaishnavi Duraikannan, Ekambaram Perumal

68. Fluoride Binding Potential of Selected Phytochemicals: A Pilot Study

Environmental Science and Pollution Research (August 2023)

Harsheema Ottapillakkil, Anitha Ottoor, Suryaa Manoharan, Murugesapandian Balasubramanian, Ekambaram Perumal

67. Fluoride induced neurobehavioral impairments in experimental animals: a brief review

Biological Trace Element Research (March 2023)

Harsheema Ottapillakkil, Srija Babu, Satheeswaran Balasubramanian, Suryaa Manoharan, Ekambaram Perumal

66. Acute hypobaric hypoxia exposure causes neurobehavioral impairments in rats: role of brain

catecholamines and tetrahydrobiopterin alterations

Neurochemical Research (February 2023)

Monojit Bhattacharjee, Suryaa Manoharan, Uma Maheswari Deshetty, Ekambaram Perumal

65. Chemotherapeutic Potential of Saikosaponin D: Experimental Evidence

Journal of Xenobiotics (December 2022)

Suryaa Manoharan, Bhuvaneshwari Deivendran, Ekambaram Perumal

64. A systematic review on fluoride-induced epigenetic toxicity in mammals

Critical Reviews in Toxicology (November 2022)

Satheeswaran Balasubramanian, Ekambaram Perumal

63. Role of oxidative stress-mediated cell death and signaling pathways in experimental fluorosis

Chemico-Biological Interactions (September 2022)

Srija Babu, Suryaa Manoharan, Harsheema Ottapillakkil, Ekambaram Perumal

62. Screening of potent STAT3^{SH2} domain inhibitors from JAK/STAT compound library through molecular dynamics simulation

Molecular Diversity (July 2022)

Suryaa Manoharan, Ajithkumar Balakrishnan, Vedagiri Hemamalini, Ekambaram Perumal



61. Potential role of marine bioactive compounds in cancer signaling pathways: A review

European Journal of Pharmacology (May 2022)
Suryaa Manoharan, Ekambaram Perumal

60. Fisetin inhibits autophagy in HepG2 cells via PI3K/Akt/mTOR and AMPK pathway

Nutrition and cancer (December 2021)
Kiruthika Sundarraj, Azhwar Raghunath, Lakshmiathan Panneerselvam, Ekambaram Perumal

59. Integrated in silico analysis for the identification of key genes and signaling pathways in copper oxide nanoparticles toxicity

Toxicology (November 2021)
Satheeswaran Balasubramanian, Ekambaram Perumal

58. Evaluation of Maghemite Nanoparticles–Induced Developmental Toxicity and Oxidative Stress in Zebrafish Embryos/Larvae

Biological Trace Elements Research (July 2021)
Naveenkumar Anaimalai Thirumurthi, Azhwar Raghunath, Satheeswaran Balasubramanian, Ekambaram Perumal

57. Mitigation of arsenic induced developmental cardiotoxicity by ferulic acid in zebrafish

Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology (June 2021)
Ekambaram Perumal, Sangavi Eswaran, Reshma Parvin, Satheeswaran Balasubramanian

56. Chitosan-coated silver nanoparticles promoted antibacterial, antibiofilm, wound-healing of murine macrophages and antiproliferation of human breast cancer MCF 7 cells

Polymer Testing (October 2020)
Ayyanar Parthasarathy, Sekar Vijayakumar, Balasubramanian Malaikozhundan, Merlin P Thangaraj, Perumal Ekambaram, Thangaswamy Murugan, Palaniyandi Velusamy, Periasamy Anbu, Baskaralingam Vaseeharan

55. Chronic exposure to copper oxide nanoparticles causes muscle toxicity in adult zebrafish

Environmental Science and Pollution Research (September 2020)
Ramya Mani, Satheeswaran Balasubramanian, Azhwar Raghunath, Ekambaram Perumal

54. Ferulic Acid Attenuates Arsenic Induced Cardiotoxicity in Rats

Biotechnology and Applied Biochemistry (August 2020)
L Panneerselvam, A Raghunath, MS Ravi, A Vetrivel, V Subramaniam, K Sundarraj, E Perumal

53. Selective detection of pyrophosphate anion by zinc ensemble of C3-symmetric triaminoguanidine-pyrrole conjugate and its biosensing applications

Analytica Chimica Acta (July 2020)
Balamurugan Tharmalingam, Moorthy Mathivanan, Kailasam Saravana Mani, Werner Kaminsky, Azhwar Raghunath, Mathivanan Jothi, Ekambaram Perumal, Balasubramanian Murugesapandian

52. Ameliorative Effect of Hesperidin Against Motion Sickness by Modulating Histamine and Histamine H1

Receptor Expression

Neurochemical Research (July 2020)
Uma Maheshwari Deshetty, Anand Tamatam, Monojit Bhattacharjee, Ekambaram Perumal, Gopalan Natarajan, Farhath Khanum

51. Fisetin, a phytopolyphenol, targets apoptotic and necroptotic cell death in HepG2 cells

Biofactors (July 2020)
K Sundarraj, A Raghunath, L Panneerselvam, E Perumal

50. MicroRNAs and Xenobiotic Toxicity: An Overview

Toxicology Reports (May 2020)
Satheeswaran Balasubramanian, Kanmani Gunasekaran, Saranyadevi Sasidharan, Vignesh Jeyamanickavel Mathan, Ekambaram Perumal

49. ZFARED: A Database of the Antioxidant Response Elements in zebrafish

Current Bioinformatics (May 2020)
Azhwar Raghunath, Raju Nagarajan, Ekambaram Perumal



48. Potential plant-derived catecholaminergic activity enhancers for neuropharmacological approaches: A

Review

Phytomedicine (November 2019)
Monojit Bhattacharjee, Ekambaram Perumal

47. Acute fluoride exposure alters myocardial redox and inflammatory markers in rats

Molecular Biology Reports (September 2019)
L Panneerselvam, A Raghunath, K Sundarraj, E Perumal

46. Role of epigenetics in zebrafish development

Gene (August 2019)
Satheeswaran Balasubramanian, Azhwar Raghunath, Ekambaram Perumal

45. HO-1/HSP32 and Cardiac Stress Signaling

Heat Shock Proteins in Signaling Pathways. Heat Shock Proteins, (July 2019)
Lakshmikanthan Panneerselvam, Azhwar Raghunath, Kiruthika Sundarraj, Ekambaram Perumal

44. Iron Oxide Nanoparticles Affects Behaviour and Monoamine Levels in Mice

Neurochemical Research (April 2019)
Vijayprakash Manickam, Vasanth Dhakshinamoorthy, Ekambaram Perumal

43. Identification of compounds that inhibit the binding of Keap1a/Keap1b Kelch DGR domain with Nrf2

ETGE/DLG motifs in zebrafish

Basic & clinical pharmacology & toxicology (March 2019)
Azhwar Raghunath, Raju Nagarajan, Kiruthika Sundarraj, Kavipriya Palanisamy, Ekambaram Perumal

42. Genome-wide identification and analysis of Nrf2 binding sites–Antioxidant response elements in zebrafish

Toxicology and Applied Pharmacology (December 2018)
Azhwar Raghunath, Raju Nagarajan, Kiruthika Sundarraj, Lakshmikanthan Panneerselvam, Ekambaram Perumal

41. Dysregulation of Nrf2 in Hepatocellular Carcinoma: Role in Cancer Progression and Chemoresistance

Cancers (December 2018)
Azhwar Raghunath, Kiruthika Sundarraj, Arfuso Frank, Gowtam Sethi, Ekambaram Perumal

40. Antioxidant response elements: discovery, classes, regulation and potential applications

Redox biology (November 2018)
Azhwar Raghunath, Kiruthika Sundarraj, Raju Nagarajan, Frank Arfuso, Bian Jinsong, Alan P Kumar, Gautam Sethi, Ekambaram Perumal

39. Tamarind seed coat extract restores fluoride-induced hematological and biochemical alterations in rats

Environmental Science and Pollution Research (September 2018)
Jaishabanu Ameeramja, Azhwar Raghunath, Ekambaram Perumal

38. Protocatechuic acid methyl ester modulates fluoride induced pulmonary toxicity in rats

Food and Chemical Toxicology (August 2018)
Jaishabanu Ameeramja, Vishnu Vignesh Kanagaraj, Ekambaram Perumal

37. Possible modulatory effect of tamarind seed coat extract on fluoride-induced pulmonary inflammation and fibrosis in rats

Inflammation (June 2018)
Jaishabanu Ameeramja, Ekambaram Perumal

36. Iron oxide nanoparticles induces cell cycle-dependent neuronal apoptosis in mice

Journal of Molecular Neuroscience (March 2018)
Vijayprakash Manickam, Vasanth Dhakshinamoorthy, Ekambaram Perumal

35. Plant Sources as Potential Therapeutics for Alzheimer's Disease

Medicinal Plants: Promising Future for Health and New Drugs (March 2018)
Azhwar Raghunath, Kiruthika Sundarraj, Vishnu Vignesh Kanagaraj, Ekambaram Perumal

34. A review on the chemotherapeutic potential of fisetin: In vitro evidences

Biomedicine & Pharmacotherapy (January 2018)
Kiruthika Sundarraj, Azhwar Raghunath, Ekambaram Perumal



33. Recurrent exposure to ferric oxide nanoparticles alters myocardial oxidative stress, apoptosis and necrotic markers in male mice

Chemico-biological interactions (December 2017)

Vijayprakash Manickam, Madhivadhani Periyasamy, Vasanth Dhakshinamoorthy, Lakshmikanthan Panneerselvam, Ekambaram Perumal

32. Protocatechuic acid methyl ester ameliorates fluoride toxicity in A549 cells

Food and Chemical Toxicology (November 2017)

Jaishabanu Ameeramja, Ekambaram Perumal

31. Pulmonary fluorosis: a review

Environmental Science and Pollution Research (October 2017)

Jaishabanu Ameeramja, Ekambaram Perumal

30. Differential expression of myocardial heat shock proteins in rats acutely exposed to fluoride

Cell Stress and Chaperones (September 2017)

Lakshmikanthan Panneerselvam, Azhwar Raghunath, Ekambaram Perumal

29. Neurobehavioural toxicity of iron oxide nanoparticles in mice

Vasanth Dhakshinamoorthy, Vijayprakash Manickam, Ekambaram Perumal (August 2017)

Neurotoxicity research

28. Repeated exposure to iron oxide nanoparticles causes testicular toxicity in mice

Environmental toxicology (February 2017)

Kiruthika Sundarraj, Vijayprakash Manickam, Azhwar Raghunath, Madhivadhani Periyasamy, Mangala Priya Viswanathan, Ekambaram Peruma

27. Metal oxide nanoparticles as antimicrobial agents: a promise for the future

International journal of antimicrobial agents (February 2017)

Azhwar Raghunath, Ekambaram Perumal

26. Aruljothi Subramaniam, Kiruthika Sundarraj, Azhwar Raghunath, Ekambaram Perumal

International Journal of Cardiology (February 2017)

Lakshmikanthan Panneerselvam, Azhwar Raghunath, Ekambaram Perumal

25. Iron oxide nanoparticles modulate heat shock proteins and organ specific markers expression in mice

male accessory organs

Toxicology and applied pharmacology (February 2017)

Kiruthika Sundarraj, Azhwar Raghunath, Lakshmikanthan Panneerselvam, Ekambaram Perumal

24. Therapeutic effects of gold nanoparticles synthesized using Musa paradisiaca peel extract against multiple

antibiotic resistant Enterococcus faecalis biofilms and human lung cancer cells (A549)

Microbial pathogenesis (January 2017)

Sekar Vijayakumar, Baskaralingam Vaseeharan, Balasubramanian Malaikozhundan, Narayanan Gopi, Perumal Ekambaram, R Pachiappan, Palaniyandi Velusamy, K Murugan, G Benelli, R Suresh Kumar, M Suriyanarayananamoorthy

23. Acute and sublethal exposure to copper oxide nanoparticles causes oxidative stress and teratogenicity in

zebrafish embryos

Journal of Applied Toxicology (April 2016)

Santhanamari Ganesan, Naveenkumar Anaimalai Thirumurthi, Azhwar Raghunath, Savitha Vijayakumar, Ekambaram Perumal

22. Antibacterial, antibiofilm and cytotoxic effects of Nigella sativa essential oil coated gold nanoparticles

Microbial pathogenesis (February 2016)

Sivalingam Manju, Balasubramanian Malaikozhundan, Sekar Vijayakumar, Sathappan Shanthi, Ameeramja Jaishabanu, Perumal Ekambaram, Baskaralingam Vaseeharan

21. In silico prediction of microRNAs on fluoride induced sperm toxicity in mice

Food and Chemical Toxicology (February 2016)

Azhwar Raghunath, Dhivyalakshmi Jeyabaskar, Kiruthika Sundarraj, Lakshmikanthan Panneerselvam, Ekambaram Perumal



20. Tamarind seed coat ameliorates fluoride induced cytotoxicity, oxidative stress, mitochondrial dysfunction and apoptosis in A549 cells

Journal of hazardous materials (January 2016)

Jaishabanu Ameeramja, Lakshmikanthan Panneerselvam, Vimal Govindarajan, Sivakamavalli Jeyachandran, Vaseeharan Baskaralingam, Ekambaram Perumal

19. Caffeic acid, a phyto polyphenol mitigates fluoride induced hepatotoxicity in rats: a possible mechanism

Biofactors (March 2015)

Vishnu Vignesh Kanagaraj, Lakshmikanthan Panneerselvam, Vimal Govindarajan, Jaishabanu Ameeramja, Ekambaram Perumal

18. Micro-RNAs and their roles in eye disorders

Ophthalmic research (March 2015)

Azhwar Raghunath, Ekambaram Perumal

17. Single oral acute fluoride exposure causes changes in cardiac expression of oxidant and antioxidant enzymes, apoptotic and necrotic markers in male rats

Biochimie (January 2015)

Lakshmikanthan Panneerselvam, Vimal Govindarajan, Jaishabanu Ameeramja, Harikumar Raveendran Nair, Ekambaram Perumal

16. Acute exposure to titanium dioxide (TiO₂) induces oxidative stress in zebrafish gill tissues

Toxicological & Environmental Chemistry (July 2014)

Sujatha Purushothaman, Azhwar Raghunath, Vasanth Dhakshinamoorthy, Lakshmikanthan Panneerselvam, Ekambaram Perumal

15. A brief review on experimental fluorosis

Toxicology Letters (November 2013)

Perumal E, Vanaja, P., Vimal, G. and Lakshmikanthan, P

14. Emodin inhibits growth and induces apoptosis in an orthotopic hepatocellular carcinoma model by blocking activation of STAT3

British Journal of Pharmacology (October 2013)

Aruljothi, S., Muthu, K.S., Tina, H.O., Feng, L., Perumal E, Luxi, C., Shireen, V., Taher, A., Shweta, K., Kwang, S.A., Alan, P.K., Kam, M.H. and Gautam, S

13. An anthraquinone derivative, emodin sensitizes hepatocellular carcinoma cells to TRAIL induced apoptosis through the induction of death receptors and downregulation of cell survival proteins

Apoptosis (October 2013)

Aruljothi Subramaniam, Ser Yue Loo, Peramaiyan Rajendran, Kanjoormana A Manu, Ekambaram Perumal, Feng Li, Muthu K Shanmugam, Kodappully Sivaraman Siveen, Joo-In Park, Kwang Seok Ahn, Kam M Hui, Alan P Kumar, Gautam Sethi

12. Emodin suppresses migration and invasion through the modulation of CXCR4 expression in an orthoptic model of human hepatocellular carcinoma

PLoS One (March 2013)

Manu, K.A., Shanmugam, M.K., Ong, T.H., Aruljothi, S., Siveen, K.S., Perumal E, Samy, R.P., Bist, P. Lim, L.H., Kumar, A.P., Hui, K.M. and Sethi, G

11. Potential role of signal transducer and activator of transcription (STAT) 3 signaling pathway in inflammation, survival, proliferation and invasion of hepatocellular carcinoma

Biochimica et biophysica acta (BBA)-Reviews on Cancer (March 2013)

Nachiyappan, Xiaoyun Dai, Shivananju Nanjunda Swamy, Kwang Seok Ahn, Alan Prem Kumar, Benny KH Tan, Kam Man Hui, Gautam Sethi

10. Emodin suppresses migration and invasion through the modulation of CXCR4 expression in an orthotopic model of human hepatocellular carcinoma

PloS one (March 2013)

Kanjoormana Aryan Manu, Muthu K Shanmugam, Tina H Ong, Aruljothi Subramaniam, Kodappully Sivaraman Siveen, Ekambaram Perumal, Ramar Perumal Samy, Pradeep Bist, Lina HK Lim, Alan Prem Kumar, Kam M Hui, Gautam Sethi

9. Potential role of signal transducer and activator of transcription (STAT) 3 signaling pathway in inflammation, survival, proliferation and invasion of hepatocellular carcinoma

Biochim Biphys Acta (October 2012)

Aruljothi, S., Shanmugam, M.K., Perumal E, Li, F., Nachiyappan, A., Dai, X., Swamy, S.N., Ahn, K.S., Kumar, A.P., Tan, B.K., Hui, K.M. and Sethi, G



8. Therapeutic efficacy of Tamarindus indica (L) to protect against fluoride-induced oxidative stress in the liver of female rats

Fluoride (April 2010)

Perumal E, Namitha, T., Bhuvaneshwari, S., Aruljothi, S., Vasanth, D. and Saravanakumar, M

7. Effects of sodium nitroprusside, a nitric oxide donor, on gamma-aminobutyric acid concentration in the brain and on picrotoxin-induced convulsions in combination with phenobarbitone in rats

Pharmacology Biochemistry and Behavior (March 2005)

Paul, V. and Perumal E

6. Demonstrating the dose- and time-related effects of 7 nitroindazole on picrotoxin-induced convulsion, memory formation, brain nitric oxide synthase activity, and nitric oxide concentration in rats

Pharmacology Biochemistry and Behavior (January 2004)

Vanaja, P. and Perumal E

5. Prevention of picrotoxin convulsions-induced learning and memory impairment by nitric oxide increasing dose of L-arginine in rats

Pharmacology Biochemistry and Behavior (May 2003)

Paul, V., Reddy, L., & Perumal E

4. Effect of vitamin D on chronic behavioural and dental toxicities of sodium fluoride in rats

Fluoride (April 2003)

Perumal E. and Paul, V

3. Modulation of fluoride in rats by calcium carbonate and by withdrawal of fluoride exposure

Pharmacology and Toxicology (February 2002)

Perumal E. and Paul, V.

2. Calcium preventing locomotor behavioral and dental toxicities by decreasing serum fluoride level in rats

Environmental Toxicology and Pharmacology (March 2001)

Perumal E. and Paul, V

1. Effects of sodium fluoride on locomotor behavior and a few biochemical parameters in rats

Environmental Toxicology and Pharmacology (November 1998)

Paul, V., Perumal E. and Jayakumar, A. R

Books/Chapters - 4

4. Curcumin as a Potential Therapeutic for Alzheimer's Disease: A Multi-targeted Approach

Medicinal Plants: Chemistry, Pharmacology, and Therapeutic Applications (May 2019)

Priyanka Velankanni, Azhwar Raghunath Satheeswaran Balasubramanian, Frank Arfuso, Gautam Sethi, Ekambaram Perumal

3. Heat Shock Proteins and Endoplasmic Reticulum Stress

Heat Shock Proteins and Stress (October 2018)

Azhwar Raghunath, Lakshmikanthan Panneerselvam, Kiruthika Sundarraj, Ekambaram Perumal

2. Analysis of lethality and malformations during zebrafish (Danio rerio) development

Teratogenicity testing: methods and protocols (June 2018)

Azhwar Raghunath, Ekambaram Perumal

1. Possible involvement of signal transducer and activator of transcription-3 (STAT3) signaling pathway in the initiation and progression of hepatocellular carcinoma

Perspectives in Cancer Prevention-Translational Cancer Research (August 2013)

Aruljothi Subramaniam, Muthu K Shanmugam, Ekambaram Perumal, Feng Li, Alamelu Nachiyappan, Alan P Kumar, Benny KH Tan, Gautam Sethi

Conferences - 2

2. Aloe vera extract mitigates sodium arsenite induced neurotoxicity in rats

International Conference on "Herbal and Natural Components as the Future of Pharmacology" and 7th Annual Meet of the National Society of Ethanopharmacology. (February 2017)

Sasi Priya Gopalakrishnan, Vinothini Subramaniam, Lakshmikanthan Panneerselvam, Ekambaram Perumal



1. Emodin (1, 3, 8-trihydroxy-6-methylanthraquinone), a natural anthraquinone derivarive induces oxidative stress and apoptosis in hepatocellular carcinoma cells

International Conference on "Herbal and Natural Components as the Future of Pharmacology" and 7th Annual Meet of the National Society of Ethanopharmacology. (February 2017)

Aruljothi Subramaniam, Kiruthika Sundarraj, Azhwar Raghunath, Ekambaram Perumal

National Journals - 4

4. Involvement of nitric oxide in learning and memory processes

Indian Journal of Medical Research (May 2011)

Vanaja, P. and Perumal E

3. A reversal by L arginine and sodium nitroprusside of ageing-induced memory impairment in rats by increasing nitric oxide concentration in the hippocampus

Indian Journal of Physiology and Pharmacology (April 2005)

Paul, V., Reddy, L. and Perumal E

2. The effect of L arginine on the memory impairing action of phenobarbitone in rats that convulsed after the injection of picrotoxin

Indian Journal of Physiology and Pharmacology (April 2004)

Paul, V., Reddy, L. and Perumal E

1. Effect of 7 nitroindazole alone and in combination with phenobarbitone and diazepam on picrotoxin-induced convulsions in rats

Indian Journal of Physiology and Pharmacology (October 2003)

Paul, V. and Perumal E

Projects

Completed - 8

1. Role of fisetin on the interrelationship between autophagy and apoptosis in hepatocellular carcinoma DST – SERB 11,00,000 (March 2016 - April 2018)

2. Identification, validation, analysis and characterization of molecular activators and antioxidant response elements of Keap1/Nrf2/ARE signaling pathway in zebrafish DST – SERB 4619000 (February 2019 - February 2022)

3. Novel STAT3 Inhibitors from Plants for Cancer Treatment RUSA 2.0 - BCTRC 14,88,000 (December 2020 - December 2022)

4. Screening and Analysis of Phytochemicals for Defluoridation

of Groundwater RUSA 2.0 - BEICH 7,00,000 (December 2019 - June 2020)

5. Elucidating the molecular mechanisms of necroptosis in uoride induced neurotoxicity:

Therapeutic potential of Naringenin, through NF κ B and NRF2 signaling pathways DST – SERB 33,77,625 (November 2015 - November 2018)

6. Mitigation of fluorosis and fluoride sensing: An amalgamation of biology and chemistry TANSCH 60,00,000 (April 2021 - April 2024)

7. Catecholaminergic activity enhancer compounds for performance enhancements in in vitro and in vivo models DRDO-BU CLS Phase-II Programme 20,20,000 (February 2014 - June 2018)

8. Targeting miRNAs in Fluorosis Extenuation: Role of Phytochemicals Others (-)

Ongoing - 2

1. Molecular Mechanism of Polystyrene Nanoplastics Toxicity in Zebrafish: Genomic and Epigenomic Insights DST – SERB 53,53,680 (July 2025 - July 2028)

2. Exploration of Marine Bioactive Compounds for HCC Prevention and Treatment: An in silico, in vitro, in vivo approaches DST – SERB 36,19,584 (April 2025 - April 2027)