



**Dr.G.MATHAN, PhD., FABMS**  
**Professor of Biomedical Science**  
**Director i/c of Dr. Ambedkar Chair**

### Contact

Address : Department of Biomedical Science  
Bharathidasan University  
Tiruchirappalli – 620 024  
Tamil Nadu, INDIA

Contact Phone (Office) : +91 431-2407072 (EXT-430)

Contact Phone (Mobile) : +91 9940823271

Contact e-mail(s) : mathan@bdu.ac.in

### Academic Qualifications

**M.Sc. Life Sciences (2001)** : Bharathidasan University, Tiruchirappalli, Tamil Nadu, India

**Ph.D., (Animal Science) (2008):** Bharathidasan University, Trichy & ICGEB, New Delhi, India

### Teaching & Research Experience:

From July, 2021: **Professor**, Bharathidasan University , Tiruchirappalli, Tamil Nadu

2018- 2021 : **Associate Professor**, Bharathidasan University , Tiruchirappalli, Tamil Nadu

2011(Jan-Aug) : **DAAD-Guest Professor**, Friedrich Schiller University, Jena, Germany

2006 – 2018 : **Assistant Professor**, Bharathidasan University, Tiruchirappalli, Tamil Nadu

### Areas of Research

- Anti-cancer agents /Target oriented small molecular inhibitors for Cancer therapeutics
- Novel Biomarkers for cancer diagnostics

### Research Supervision / Guidance

	Program of Study	Completed	Ongoing
Research	Ph.D.	06	02
Project	PG	28	07

## Funded Research Projects:

### Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	DST-SERB (Fast track)	2011	2014	Studies on aberrant crypt foci, apoptosis and early growth response genes (Rps27a & $\beta$ -Catenin) in rat colorectal carcinogenesis (CRC) using floral isolates of <i>Butea monosperma</i> <b>(Principal Investigator)</b>	11.38
2	UGC-Major	2012	2015	Studies on intervene effects of anti cancer compound, Butrin/Isobutrin, on cell cycle regulation in HT-29 human colon cancer cells <b>(Principal Investigator)</b>	07.50
3	DBT-RGYI	2012	2015	Studies on Potential Oncogenic Role of the Transcription Factor Nsep 1 Association with the Over expressed Rps27a in Human Hepatocellular Carcinoma(HCC) <b>(Principal Investigator)</b>	27.07
4	SERB	2015	2016	Studies on antimitotic effect and WNT/ $\beta$ -Catenin pathway interference of isocoreopsin, isolated from <i>Butea monosperma</i> floral extracts, in human colon cancer cells <b>(Principal Investigator)</b>	5.50
5	DBT-Pilot project Grant	2015	2018	RNAi mediated functional analysis of RNA induced silencing complex (RISC) and its component AEG-1 that induce the expression of Transcription factor LSF in Hepatocellular Carcinoma <b>(Co-Principal Investigator)</b>	25.00
6	DBT-Major Research Project	2016	2019	Analysis and evaluation of Indian staple food fortified with veldt grape ( <i>Cissusquadrangularis</i> ) stem powder to overcome osteoporosis <b>(Co-Principal Investigator)</b>	31.98

## Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	SERB	2019	2022	“Investigation on identifying de novo chemical antagonists to the YB-1, a biomarker of cell proliferation, involving in the progression of various human neoplasms: a multidisciplinary approach” (Principal Investigator)	49.32
2	RUSA 2.0	2021	2023	Screening of potential YB-1 inhibitors against human breast cancer using <i>in silico</i> and <i>in vitro</i> models (Principal Investigator)	6.18

## Patents

- *A pharmaceutical composition useful for the treatment of Hepatocellular Carcinoma (HCC). International Publication Number (WIPO-PCT): WO 2006/126067 A1.*

## Field of the Invention

The present invention relates to a pharmaceutical composition useful for the treatment of hepatocellular carcinoma. Also, it relates to the use of the extract or its active fraction, butrin and isobutrin isolation process from any plant parts of *Butea monosperma* in the treatment of hepatocellular carcinoma.

## Publications /Book Chapters

1. Vinoth Prasanna Gunasekaran, Thirunavukkarasu Sivaraman, **Mathan Ganeshan**, Apoptotic Switch in Cancer Stem Cells: A Potential Approach for Cancer Treatment. *Current Protein & Peptide Science*, PMID: 37183463, (2023)
2. Kannan M, Jayamohan S, Moorthy RK, Chabattula SC, **Ganeshan M**, Arockiam AJV. Dysregulation of miRISC Regulatory Network Promotes Hepatocellular Carcinoma by Targeting PI3K/Akt Signaling Pathway. *International Journal of Molecular Sciences.*; 23(19):11300 (2022)
3. Devan Umopathy, Mano Chitra Karthikeyan, Kumar Ponnuchamy, Mahesh Kumar Kannan, **Mathan Ganeshan**, Antony Joseph Velanganni Arockiam, The absence of cellular glucose triggers oncogene AEG-1 that instigates VEGFC in HCC: A possible genetic root cause of angiogenesis, *Gene*, Volume 826, 146446 (2022)
4. Latha Subbiah, selvamani Palanisamy, Silambarasi Thamizhumurasu, Arputha Bibiana Mathew Joseph, Prabha Thangavelu, **Mathan Ganeshan**, Deepak B. Thimiri Govinda Raj. Development of Meloxicam-Chitosan magnetic nanoconjugates for targeting rheumatoid arthritis joints: Pharmaceutical characterization and preclinical assessment on murine models, *Journal of Magnetism and Magnetic Materials*, 523, 167571 (2021)
5. Thankaraj Salammal Sheena, Rajakumaran Dhivya, Venkatesan Rajiu, K. Jeganathan, Mallayan Palaniandavar, **Ganesan Mathan**, Mohammad Abdulkader Akbarsha. Folate- engineered mesoporous silica-encapsulated copper (II) complex [Cu(L)(dppz)]<sup>+</sup>: An active targeting cell-specific platform for breast cancer therapy, *Inorganica Chimica Acta*, 510, 119783 (2020)

6. Ramakrishnan Sabitha, Kumari Nishi, Vinoth Prasanna Gunasekaran, Govindhan Annamalai, Balupillai Agilan, **Mathan Ganeshan**. p-Coumaric acid attenuates alcohol exposed hepatic injury through MAPKs, apoptosis and Nrf2 signaling in experimental models, *Chemico-Biological Interactions*, 321, Pages 109044, (2020) (Listed in The Comparative Toxicogenomics Database (CTD); <http://ctdbase.org/>)
7. Ramakrishnan Sabitha, Kumari Nishi, Vinoth Prasanna Gunasekaran, Govindhan Annamalai, Balupillai Agilan, **Mathan Ganeshan**. p-Coumaric acid ameliorates ethanol-induced kidney injury by inhibiting inflammatory cytokine production and NF- $\kappa$ B signaling in rats, *Asian Pacific Journal of Tropical Biomedicine*, 9, Pages 188-195, (2019)
8. Kumari Nishi, Sabitha Ramakrishnan, Vinoth Prasanna Gunasekaran, Kaushal Parkash Arumugam Ramakrishnan Natesan Vijayakumar, **Mathan Ganeshan**. Protective effects of p-coumaric acid on ethanol induced male reproductive toxicity, *Life Sciences*, 209, Pages 1-8, (2018)
9. Navaneethakrishnan polachi, Boopathi Subramaniyan, Prashantha Nagaraja, Kannan Rangiah and **Mathan Ganeshan**, Extract from *Butea monosperma* inhibits  $\beta$ -catenin/Tcf signaling in SW480 human colon cancer cells. *Gene Reports*, 10, 79-89 (2018)
10. Kumari Nishi, Vinoth Prasanna Gunasekaran, Jaganath Arunachalam, **Ganeshan Mathan**. Doxorubicin induced female reproductive toxicity: An assessment of ovarian follicular apoptosis, cyclicity and reproductive tissue histology in Wistar rats. *Drug and Chemical Toxicology*, 2018 Jan; 41(1):72-81
11. Vinoth Prasanna Gunasekaran, Kumari Nishi, Dakshinamurthy Sivakumar, Thirunavukkarasu Sivaraman, and **Ganeshan Mathan**. Identification of 2, 4-dihydroxy-5-pyrimidinyl imidothiocarbamate as a novel inhibitor to Y box binding protein-1 (YB-1) and its therapeutic actions against breast cancer. *European Journal of Pharmaceutical Sciences* (2018). 116;2-14
12. Boopathi Subramaniyan, Vijay Kumar, **Ganeshan Mathan**. Effect of sodium salt of Butrin, a novel compound isolated from *Butea monosperma* flowers on suppressing the expression of SIRT1 and Aurora B kinase-mediated apoptosis in colorectal cancer cells. *Biomedicine & Pharmacotherapy*, June 2017, Volume 90, Pages 402–413
13. Boopathi Subramaniyan, Kaviya Jeganathan, Sabitha Ramakrishnan and **Ganeshan Mathan**. Targeting the interaction of Aurora kinases and SIRT1 mediated by Wnt signaling pathway in colorectal cancer: A Critical Review. *Biomedicine & Pharmacotherapy*, 2016, Vol.82, 413-424
14. Boopathi Subramaniyan, Navaneethakrishnan Polachi and **Ganeshan Mathan**. Isocoreopsin: An active constituent of n-butanol extract of *Butea monosperma* flowers against colorectal cancer (CRC). *Journal of Pharmaceutical Analysis*, 2016, Vol 6 (5), 318-325.
15. Vinoth prasanna Gunasekaran, Kumari Nishi, Ravikumar Vilwanathan and **Ganeshan Mathan**. Nuclear shuttling of Y Box binding protein-1, its clinical relevance in cancer and as a therapeutic target. *Bangladesh Journal of Pharmacology*, 2016, Vol. 11(2), 501-524.
16. Vinoth prasanna Gunasekaran, Kumari Nishi and **Ganeshan Mathan**. Structural and functional aspects of Y Box binding protein in relation to its interactions with DNA/RNA/ Extracellular receptors. *European Journal of Biomedical and Pharmaceutical Sciences*, 2016, Vol.3(5), 359-67
17. Rajakumar Dhivya, Paramasivam Jaividhya, Anvarbatcha Riyasdeen, Mallayan Palaniandavar, **Ganeshan Mathan**, Mohammad Abdulkader Akbarsha. In vitro antiproliferative and apoptosis-inducing properties of a mononuclear copper (II) complex with dppz ligand, in two genotypically different breast cancer cell lines. *Biometals*, 2015, Oct 3:28(5):929-43

18. Sabitha Ramakrishnan, Steena Partricia, **Ganeshan Mathan**, Overview of high-risk HPV's 16 and 18 infected cervical cancer: Pathogenesis to prevention, *Biomedicine & Pharmacotherapy*, **2015**, Vol.No:70; 103-110.
19. Navaneethakrishnan Polachi, Prashantha Nagaraja, Boopathi Subramaniyan, **GaneshanMathan**, Antiproliferative activity of n-butanol floral extract from *Butea monosperma* against hct 116 colon cancer cells; drug likeness properties and in silico evaluation of their active compounds towards gsk-3 $\beta$ /axin and  $\beta$ -catenin/tcf-4 protein complex, *AsianJ Pharm Clin Res*, Vol.No:8,1, **2015**. (134-141)
20. Harni Nallusamy, Surendran Srinivasan and **Mathan Ganeshan**. Ameliorative effect of *Ixora javanica* flower extract on Streptozotocin induced diabetes in rats, *Biomedicine*, **2014**, Vol.No:34,4, (Selected as best paper of the year from the journal for Dr. Yellapragada Subbarao Memorial Award from IABMS, Chennai)
21. Vinoth prasanna Gunasekaran and **Mathan Ganeshan**. Inverse correlation of ribosomal protein S27A and multifunctional protein YB-1 in Hepatocellular carcinoma. *Clinical Biochemistry*, **2014**, 47(13-14):1262-4
22. Navaneethakrishnan P, Prashantha Nagaraja, Boopathi S, Sabitha R and **Mathan G**. *In silico* design of *Butea monosperma* floral derived compounds and its inhibitory effect on  $\beta$ -catenin, GSK-3  $\beta$  and APC complex proteins in colorectal cancer. *International Journal of Drug Discovery*. (**11/2013**); 5(1):191-197.
23. Sellamuthu Anbu, Asaithambi Killivalavan, Elisabete C B A Alegria, **Ganeshan Mathan**, Muthusamy Kandaswamy. Effect of 1,10-phenanthroline on DNA binding, DNA cleavage, cytotoxic and lactate dehydrogenase inhibition properties of Robson type macrocyclic dicopper(II) complex. *Journal of Coordination Chemistry* (**10/2013**); 66(22):3989–4003.
24. Grace Fatima, **Ganeshan Mathan** and Vijay Kumar. The HBX protein of hepatitis B virus regulates the expression, intracellular distribution and functions of Ribosomal protein S27a. *Journal of General Virology* (**2012**) 93:706 – 715
25. **G. Mathan**, G. Fatima, A. K. Saxena, B. K. Chandan, B. S. Jaggi, B. D. Gupta, G.N. Qazi, C. Balasundaram, K. D. Ananad Rajan, V. L. Kumar, and V. Kumar. Chemoprevention with the aqueous extract of *Butea monosperma* flowers results in the normalization of nuclear morphometry and inhibition of proliferation marker in a transgenic mouse model of hepatocellular carcinoma. *Phytotherapy Research* (**2011**), 25(3), 324-328.
26. Tenzin Choedon, **Ganeshan Mathan**, Soneera Arya, Vijay Lakshmi Kumar and Vijay Kumar. Anticancer and cytotoxic properties of the latex of *Calotropis procera* in a transgenic mouse model of hepatocellular carcinoma. *World journal of Gastroenterology* (**2006**), 12 (16), 2517-2522.

## GEO Submission

Title Liver cancer progression through increased miR-221 mediated tumorigenesis  
 Accession **PRJNA558686**; **GEO: GSE135375**  
 Data Type Transcriptome or Gene expression

## Book Chapter

Publication	Title of the Book Chapter	ISBN/ ISSN No.	International/ National	Authors
Springer	Role of Transcription Factors in Gastrointestinal Malignancies	ISBN 978-981- 10-6727-3	International	Dhivya, T, Boopathi Subramaniyan, <b>Ganeshan Mathan</b>
Springer	Geostatic study on waterborne disease outbreak in India (2011-2020)	ISBN 978-981- 19-7229-4	International	Pavithra R, Bhuvanewari S, Prakash K, JegankumarR, <b>Mathan. G</b>

## Distinctive Achievements / Awards

### International

1. Mildred Scheel Cancer Conference Fellowship awarded from German Cancer Aid (Deutsche Krebshilfe e.V.), Bonn, Germany (2011)
2. DAAD-Guest Professorship award from German Academic Exchange Service, Germany (2010)

### National

1. Fellow of Indian Association of Biomedical Scientists (FABMS) awarded by Indian Association of Biomedical Scientists, Tamil Nadu, India (2018)
2. Dr. Yellapragada Subbarao Memorial Award for the best paper published in *Biomedicine* Journal(2015)
3. Junior Medical Scientists Exchange Programme awarded by National Academy of Medical Science (NAMS ), New Delhi (2013-2014)
4. Vocational Excellence award, Rotary Club of Dindigul Queencity, Tamil Nadu, India(2012)
5. Young Scientist Fellowship Scheme (YSFS 2010- 2011) award, Tamil Nadu Science Council for Science and Technology (TNSCST), Chennai, India (2011)
6. Young Scientist Award, Department of Science & Technology (DST), India. (2011)
7. Senior Research Fellow award from CSIR, New Delhi, India (2004)
8. National merit fellowship (CSIR- UGC-NET-Lectureship) award, University Grants Commission, India (2001)

## Events organized in leading roles

1. Organizing Secretary for one day National Seminar on “Emerging Trends in Cancer and Stem Cell Biology (ETCSCB-2018)” during 20th March, 2018
2. Organizing Secretary for one day National Seminar on “Emerging Trends in Cancer and Stem Cell Biology (ETCSCB-2012)” during 10th September, 2012
3. Organizing Secretary for International Webinar on “Biotech Innovations and Precision Oncology” during 7<sup>th</sup> March, 2022
4. Organizing Secretary for Two day National Level Hands on Training/ Workshop on “Mammalian Cell Culture Techniques for Anticancer Studies during 28th and 29th of March, 2022.
5. Coordinator for venue arrangement committee, 46<sup>th</sup> Indian Social Science Congress during 27<sup>st</sup>-31<sup>st</sup> January, 2023
6. Chairperson for thematic panel of Unity of Science, 46<sup>th</sup> Indian Social Science Congress during 27<sup>st</sup>-31<sup>st</sup> January, 2023



## **Membership in Professional Bodies**

1. Life Member: Society of Biological Chemists (SBC), India
2. Life Member: Indian Association of Bio Medical Scientists (IABMS), India
3. Life Member: National Academy of Biological Sciences (NABS), India
4. Life Member: Vijnana Bharathi (VIBHA), India
5. Life Member: Society for Alternatives to Animal Experiments (SAAE)
6. American Association of Cancer Research (AACR)- 2012-2014

## **Editorial/Advisory Board**

### **Editorial Board**

1. Journal of Oncology Research Forecast- Open Access
2. GSL Journal of Drug testing and Analysis- Open Access
3. Open Access Journal of Pharmaceutical Research

### **Advisory Board**

1. International Journal of Analytical, Pharmaceutical and Biomedical Sciences (ISSN: 2278-0246)
2. "Biomedfutura -News Letter"- Dept of Biomedical Science, Bharathidasan University

## **Academic Bodies /Reviewer**

### **Academic Bodies (such as Board of Studies etc.,)**

1. Board of study Member in M.Sc., Biomedical Science curriculum, Bharathidasan University, Tiruchirappalli.
2. Board of study Member in .Sc., Life Science course curriculum Bharathidasan University, Tiruchirappalli.

### **Reviewer Activity**

The Journal of BIOLOGIA, Springer-Verlag Publishers, Slovakia, Natural Product Research, Taylor & Francis Group Publishers, UK, Indian Journal of Pharmaceutical Sciences, Medknow Publications, India, Chemical Biology and Drug Design, Elsevier Publication, Journal of Current Drug Delivery (Bentham Publisher), BMC- Cancer, UK, Bioinfo Publication, India, Clinical Biochemistry, Elsevier Publication, Cellular Physiology and Biochemistry, Karger Publications, Switzerland, BMC- Complementary & Alternative Medicine, Rhizosphere

## **Academic/Administrative Responsibilities**

1. Director i/c, Dr.Ambedkar Chair, Bharathidasan University, Tiruchirappalli (2022)
2. Executive Member: Indian Association of Biomedical Scientists, Chennai (2015- 2023)
3. Member: Bharathidasan University NAAC-SSR Data consolidation Committee (2018).
4. Member: Bharathidasan University Rate Contract Committee for allocating scientific companies to Purchase Chemicals, Glassware's and Lab ware (2012- 2014).
5. Sub- committee Member: Preparation of information related to University with potential of Excellence, Bharathidasan University, Tiruchirappalli (2014)
6. Treasurer for Bharathidasan University Alumni Association, (February 2008 to February 2012)
7. Deputy Warden for Cauvery & Bhavani Hostels, Bharathidasan University (August 2013 to May 2018).
8. Faculty in Charge for " Biomedfutura" News letter and Editorial adviser released by

Department of Biomedical Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu (2017- 2022)

9. Liaison Officer for Honorable Governor's camp office during 37<sup>th</sup> Convocation of Bharathidasan University.
10. Coordinator for UGC-HRDC organized FIP programme & Camp Officer for central valuation of CDE , Bharathidasan University during 2020 and 2022
11. Doctoral Committee Member & External Subject Expert in selection committee for various research programs at college and University level.

Invited Lecturers: 32				
S.No	Title/ Event	Host Institute/ University	Country	Date & Year
1	“Advantage of <i>in vitro</i> cell culture techniques in cancer drug discovery”  <u>Event:</u> National Conference on Advances in Artificial Organ Development and Novel Strategies in Drug Discovery	St. Joseph College (Autonomous), Tiruchirappalli.	India	21 <sup>st</sup> September, 2023
2	A Journey towards personalized cancer medicine on the occasion of Zoology Association Inauguration	Thanthi Periyar Arts and Science College, Tiruchirappalli,	India	14 <sup>th</sup> March, 2023
3	“Y-Box binding protein: A potential target for cancer therapy” <u>Event:</u> <b>International Conference on“ Innovations and Applications in Bimedical and Health Science”</b>	Department of Biotechnology, Holy Cross College (Autonomus) Tiruchirappalli	India	24 <sup>th</sup> January 2023
4	“Scientific and Technological Advancements in Independent India”  <u>Event:</u> Pre-Congress National Symposium on <b><i>Indigenous Development in Research and its Impact on 75 years of Swaraj India</i></b> as a part of the <b>46<sup>th</sup> Indian Social Science Congress</b>	ADM College for Women (Autonomous), Nagapattinam	India	9 <sup>th</sup> January, 2023
5	Cancer Therapy: A Journey towards personalized medicine	J J College of Arts and Science, Pudukkottai, Tamil Nadu	India	25 July, 2022
6	Cancer and Metastasis	SRM BIOCONCLAVE, Chennai	India	20 <sup>th</sup> January, 2022
7	Scientific validation of TTM against Ovarian Cancer	Dr.NGP Arts and Science College, Coimbatore-641 048, Tamil Nadu	India	30 <sup>th</sup> September 2021
8	“Mechanistic Insights into the Therapeutic Potential of the Traditional Tibetan Medicine – YK in Ovarian Cancer Cells”	Srimad Andavan Arts and Science College, Tiruchirappalli, Tamil Nadu	India	31 <sup>st</sup> August, 2021



9	“Viral challenges in Human Health-COVID-19”	On the occasion of National Science Day, Periyar EVR College, Tiruchirappalli	India	28 <sup>th</sup> February, 2020
10	The Tibetan medicine exhibits a potent anti-metastatic activity	Department of Biochemistry, Bharathiyar University, Coimbatore	India	21 <sup>st</sup> February 2020
11	Mechanistic insights into the therapeutic potential of the Traditional Tibetan Medicine in ovarian cancer	40 <sup>th</sup> Annual Conference of Indian Association of Biomedical Scientists on Biomedical research and Innovation to Enhance Quality of Life, Organized by Cheetnad Hospital & Research Institute, Chennai	India	1 <sup>st</sup> October, 2019
12	Advances in Animal Biotechnology	“State level conference on “ Contemporary Sciences Organized by Department of Biotechnology, Srinivasan College of Arts and Science, Perambalur	India	07 <sup>th</sup> March, 2018
13	Yukyung Karne, a traditional Tibetan medicine exhibits a potent anti-metastatic activity by inhibiting the epithelial to mesenchymal transition and cell migration	38 <sup>th</sup> National Annual Conference of Indian Association of Biomedical Scientists on An insight into Biomedical research for Human Health organized by Saveetha Medical College, Chennai, Tamil Nadu	India	23-26 <sup>th</sup> December 2017
14	Targeted Drug Therapies: Y box binding protein 1, a potential target for cancer therapy	37 <sup>th</sup> National Annual Conference of Indian Association of Biomedical Scientists on Current Advances in Integrated Biomedicine for Healthcare organized by Shobhit University, Gangoh, UP	India	5 <sup>th</sup> November, 2016
15	Molecular insights into the therapeutic potential of the Traditional Tibetan Medicine.	5 <sup>th</sup> International Convention of Association of pharmacy professionals held in Anna University, Tiruchy, Tamil Nadu	India	23 <sup>rd</sup> January 2016.
16	Mechanistic insights into the therapeutic potential of the Traditional Tibetan Medicine in ovarian cancer cells.	PSNA college for Engineering & Technology, Dindugal, Tamil Nadu	India	7 <sup>th</sup> October, 2015
17	“Anti-metastatic property of Traditional Tibetan Medicine”	Organized by Zoology Association, Holy cross college, Tiruchirappalli, Tamil Nadu	India	10 <sup>th</sup> July, 2015
18	“The effect of intertumoral heterogeneity for validation of novel biomarker in cancer diagnosis and therapy”	National conference organized by Periyar Maniammai University, Thanjavur, Tamil Nadu	India	9 <sup>th</sup> March, 2013

19	“Anti cancer mechanism of bioactive compounds isolated from Butea Monosperma flower”	National level seminar organized by Srimad Andavan Arts and Science College, Tiru chirappalli, Tamil Nadu	India	8 <sup>th</sup> February, 2013
20	Interheterogeneity nature of tumor & validation of novel biomarker for cancer diagnosis and treatment	Refresher course organized by Academic Staff College, Madurai Kamaraja University, Madurai, Tamil Nadu	India	26 <sup>th</sup> November 2012
21	Transcriptomics: Tool for finding efficient biomarkers for early HBV associated liver cancer	Srimad Andavan Arts and Science College, Tiruchirappalli, Tamil Nadu	India	10 <sup>th</sup> October, 2012
22	The effect of intertumoral heterogeneity for validation of novel biomarker for cancer diagnosis and therapy”	National workshop organized by Mahatma Gandhi-Dorenkamp centre for alternative to use of Animals in Life Science Education, Bharathidasan University, Tiruchirappalli, India	India	10 <sup>th</sup> October, 2012
23	“Dengue Fever”	National seminar organized by Rajah Serfoji Govt College, Tanjavur, Tamil Nadu	India	27-September 2012
24	“Biomedicine”	PSNA College of Engineering & Tech, Dindigul, Tamil Nadu	India	27 <sup>th</sup> Feb, 2012
25	Laboratory Biosafety	UGC sponsored short term Course for research scholars organized by UGC-Academic staff College, Bharathidasan University, Tiruchirappalli, Tamil Nadu	India	28 <sup>th</sup> March, 2012
26	"The Scope of Biomedical Science and its prosperous opportunities"	Program of Science world in All India Radio, Trichirappalli	India	8 <sup>th</sup> February, 2011
27	"Oncomouse models for HCC to study novel treatment modalities"	Centre for Molecular Biomedicine (CMB), Friedrich Schiller University, Jena, Germany	<b>Germany</b>	8 <sup>th</sup> , December, 2010
28	“Transcriptomics and novel treatment modalities for HCC: A transgenic mouse model approach	Summer School on current Developments in biological Nano Technology organized by Anna University, Tiruchirappalli, Tamil Nadu	India	8 <sup>th</sup> April, 2010
29	“Transcriptomics and novel treatment modalities for HCC: A transgenic mouse model approach"	J.J College of Arts and Science, Pudukkottai, Tamil Nadu	India	10 <sup>th</sup> Feb, 2010
30	“Hospital waste and its management”	Rajah Serfoji Govt College, Tanjavur, Tamil Nadu	India	7 <sup>th</sup> January, 2010

31	"Anti-tumorogenic properties of Butea monosperma floral extracts in X15 myc transgenic mouse model of hepatocellular carcinoma"	University of Ulm	Germany	14 <sup>th</sup> April, 2008
32	"Emerging Trends in Biotechnology	Pavendar Bharathidasan College of Engineering and Technology, Tiruchirappalli	India	20 <sup>th</sup> February, 2008

### Collaborators

- Dr. Vijay Kumar, Virology Group, ICGB, New Delhi
- Dr. R.Kannan, Food Safety and Analytical Quality Control Laboratory, Central Food Technological Research Institute (CFTRI), Mysore, Karnataka, India
- Prof. P.Selvamani & Dr.S.Latha, Department of Pharmaceutical Technology, Anna University, Tiruchirappalli, Tamil Nadu, India
- Dr. T.Sivaraman, Department of Chemistry, Dhanalakshmi Srinivasan Engineering College, Dhanalakshmi Srinivasan Group of Institutions, Perambalur - 621212, Tamil Nadu, India.
- Dr. M.A. Akbarsha, Mahatma Gandhi-Doerenkamp Center for Alternatives to Use of Animals in Life Science Education, Bharathidasan University, Tamil Nadu
- Dr. V.Ravikumar & Dr. Antony Joseph Velanganni, Dept of Biochemistry, BDU, Trichy
- Dr. T. Sivasudha, Dept of Environmental Biotechnology, Bharathidasan University, Trichy
- Bioinformatics Group, Scientific Bio-Minds, Bangalore, Karnataka, India
- Dr. G.VinothPrasanna, Amity Institute of Biotechnology (AIB), Mumbai.
- Dr. Nishi Kumari, Scientist C, Department of Neuroendocrinology, National Institute for Research in Reproductive and Child Health( NIRRCH), Mumbai.

### Training Courses/ Conference Attended

Sl. No.	Name of Course attended	Sponsoring Institution	Duration
1	UGC Sponsored Online Leadership Development Programme for Sr. Level Teachers	UGC-HRDC, Bharathidasan University, Tiruchirappalli	10-16 <sup>th</sup> February, 2021
2	UGC Sponsored One Week Short Term Course in MOOCS and E-Content Development	UGC-HRDC, Pondicherry Central University	19 <sup>th</sup> -25 <sup>th</sup> June, 2018
3	UGC Sponsored Short Term Course on Research Methodology	UGC-HRDC, Pondicherry Central University	4 <sup>th</sup> – 10 <sup>th</sup> October, 2017
4	Twenty seventh Appreciation course in Parliamentary Processes and Procedures for Professors of Universities/Colleges	Bureau of Parliamentary Studies and Training, Lok Sabha Secretariat, New Delhi, India	2-6 <sup>th</sup> May 2016

5	Faculty Development Programme on “New Perspective in Drug Discovery and Progressive Technological Developments”	Anna University, BIT campus, Tiruchirappalli	4 <sup>th</sup> -17 <sup>th</sup> May, 2015
6	CME Programme-Training under the Medical Scientists Exchange Programme of NAMS 2013-2014	All India Institute of Medical Science (AIIMS),New Delhi	November 10 - December 10, 2013
7	TNSCST-YSFS training programon “ The Advancement of Cancer Stem Cell Biology”	Indian Institute of Science (IISC) Bangalore	1 <sup>st</sup> September- 1st December 2011.
8	Refresher Course in Research Methodology in Sciences (Biomedical Science)	Academic Staff College, Punjab U niversity, Chandigarh	2 <sup>nd</sup> - 22 <sup>nd</sup> March, 2010
9	Orientation course	Academic Staff College, Bharathid asan University, Trichy	2 <sup>nd</sup> -29,November, 2006
10	<b>Participation in National &amp; International Conferences : 16</b>		

### Extension activities

Sl.No	Type of activity	Period of activity	Agency of collaboration	Output
1	Served Disaster relief workat flood affected area at Cuddalore District	10 <sup>th</sup> December, 2015	Bharathidasan University	Rs. 5 lakh worth relief materials were distributed to 3 villages.
2	The World Cancer Day was observed at Bharathidasan University	4 <sup>th</sup> February, 2012	Bharathidasan University	More than 1000 Cancer awareness pamphlets were issued for the benefit of public.
3	To create awareness about Scientific Research and its importance among school and College Students through the program of “Meet a Scientist”	27 <sup>th</sup> February, 2012 at Achyutha Academy, Dindigul, Tamil Nadu	Rotary Club of Dindigul Queen City, Dindigul,	More than 500 schooland college students were participated andbenefited by this program
4	Special interview to make awareness about Cancer Problems among public Through All India Radio, New Delhi	18 <sup>th</sup> April, 2012	All India Radio, New Delhi.	The program was broadcasted through nationwide for the benefit of common people

5	World No Tobacco Day was observed at Bharathidasan University and the importance of tobacco free environment awareness was created among Trichy City through Signature Campaign Ceremony.	31 <sup>st</sup> May, 2012	Bharathidasan University and State Tobacco Control Program, Chennai	Nearly 1000 participants were actively participated and benefited in the signature campaign awareness program
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### Webinars Attended

S.No	Name / Title of the Event	Institution and place held	Date(s)	Role played
1	Knowledge Access and Sharing: Challenges and Opportunities	Bharathidasan University, Trichy	08-14 <sup>th</sup> June, 2020	Participated
2	INFECTIOUS Diseases- Biology, Diagnosis, preventive strategies of Coronaviruses	Loyola College, Chennai	01-04, June, 2020	Participated
3	Covid-19, Pandemic: Genetic and Therapeutic strategies	Bharathiar University, Coimbatore	05.06.2020	Participated
4	Drug Discovery-New Lead from old Drugs	Ramaiah University, Banagluru	06.06.2020	Participated
5	Structural Biology: A road map to drug discovery	Karpagam Academy of Higher Education, Coimbatore	27 <sup>th</sup> May, 2020	Participated
6	ITC and its Data analysis using dynamic approach	Karpagam Academy of Higher Education, Coimbatore	18 <sup>th</sup> May, 2020	Participated
7	Challenges in Building collaborations in research and innovation	Dr.M.G.R Educational and Research Institute, Chennai	9 <sup>th</sup> May, 2020	Participated

### Lab Members

1. Dr. Kumari Nishi, UGC-Post-Doctoral Scientist
2. Mr. P.Navaneetha Krishnan, (2011-2015)
3. Ms. R.Dhivya, (2011-2016)
4. Ms.Tenzin Choedon, (2012-2017)
5. Mr. S.Boopathy, (2012-2016)
6. Mr. G. Vinoth Prasanna, (2013-2016)
7. Ms. R.Sabitha, (2013-2020)
8. Ms. M.Karthika (2021-2022)
9. Mr.S.Maharaja (2020-On going)
10. Mr. T.Karthik (2023- On going)

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