

## **Dr. G. Mathan, M.Sc. Ph.D.,**

Assistant Professor  
Department of Bio Medical Science  
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### **Professional Experience:**

- Assistant Professor, Department of Biomedical Science, School of Basic Medical Sciences, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India (Feb 2006-Till Date)
- DAAD-Guest Professor, Center for Molecular Biomedicine (CMB), Friedrich Schiller University, Jena, Germany (Jan, 2011- Aug, 2011)

### **Awards and Honours**

- **Junior Medical Scientists Exchange Programme** fellowship awarded by National Academy of Medical Science (NAMS ), New Delhi for the year (2013-2014)
- **Vocational Excellence award**, Rotary Club of Dindigul Queencity, Tamil Nadu, India (2012)
- Mildred Scheel Cancer Conference Fellowship awarded from German Cancer Aid (Deutsche Krebshilfe e.V.), Bonn, Germany (2011)
- **Young Scientist** Fellowship Scheme (YSFS 2010- 2011) award, Tamil Nadu Science Council for Science and Technology (TNSCST), Chennai, India (2011)
- **Young Scientist Award**, Department of Science & Technology (DST), India. (2011)
- DAAD-Guest Professorship award from German Academic Exchange Service, Germany (2010)

### **Grants and Fellowships:**

- **Senior Research Fellow (SRF)** - Council of Scientific and Industrial Research (CSIR), India. (2004)
- **National merit fellowship (CSIR- UGC-NET)**, University Grants commission, India (2001)

### Research Projects

<b>Scheme &amp; Funding Agency</b>	<b>Grant Period</b>	<b>Amount in Laksh (Rs)</b>	<b>Status</b>
Pilot project Grant- DBT	2015-2018	25.00	Ongoing
Rapid Grant for Young Investigator (RGYI)- DBT	2012-2015	27.07	Completed
Major Research Project- UGC	2012-2015	7.50	Completed
Fast track- DST	2011-2014	11.38	Completed

### **Memberships in Societies & Professional Bodies**

- American Association of Cancer Research(AACR)
- Society of Biological Chemists (SBC), India
- Indian Association of Bio Medical Scientists (IABMS), India.
- National Academy of Biological Sciences (NABS), India

### **Academic responsibilities:**

- **Purchase Committee Member**, Departmental of Biomedical Science, Bharathidasan University, Tiruchirappalli
- **Sub- committee Member**, preparation of information related to University with potential of Excellence on 05.09.2014
- **Admission Committee Member**, M.Sc., Biomedical Science Students, Bharathidasan University, Tiruchirappalli, Tamil Nadu (2013-14 and 2012-13)
- **Examination Committee Member**, Departmental of Biomedical Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu (2012- till date)

- **Guest Faculties Interview Committee Member**, Departmental of Biomedical Science Bharathidasan University, Tiruchirappalli, Tamil Nadu (23rd August-2012)
- **Board of study Member**, M.Sc., Biomedical Science course curriculum, Bharathidasan University, Tiruchirappalli, Tamil Nadu for the period of three years from 2012-2014.
- **Deputy warden**, Cauvery and Bhavani Hostels for men at Bharathidasan University, Tiruchirappalli, Tamil Nadu (12.8.2013-till date)
- **President**, Biomed Futura, Alumni Association for Department of Biomedical Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu (Oct, 2011- till date)
- **Board of study Member**, M.Sc., Life Science course curriculum, Bharathidasan University, Tiruchirappalli, Tamil Nadu (2010-till date).
- **Rate Contract Committee Member**, Bharathidasan University, Tiruchirappalli, Tamil Nadu (2012- 2014)
- **Academic Counselor**, MBA Hospital management students, Bharathidasan University, Tiruchirappalli (2012-13)
- **Treasurer**, Bharathidasan University Alumni Association, Bharathidasan University, Tiruchirappalli, Tamil Nadu (Feb, 2008 to Feb, 2012)
- **Selection committee Member**, Project Assistant recruitment for TNSCST-DST joint S&T research project on 20th July 2007 at Bharathidasan Institute of Technology, Bharathidasan University, Tiruchirappalli, Tamil Nadu

#### **Conference and workshop organized**

- **Organizing committee Member**, seminar on “Recent Trends in Hospital Management (RTHM- 2012) organized by Department of Biomedical Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu during 6th March, 2012.
- **Executive Member**, International conference on “Medical Genetics and Genomics” organized by Department of Biomedical Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu during 12- 14, December, 2011.
- **Organizing committee Member**, National seminar on “Recent Advances in Biomedical Research on Infectious and Non-Infectious Diseases”(RABRINID-2011) organized by Department of Biomedical Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu during 13th -14th, October, 2011.

## **Journal Reviewer and Editorial Board Member**

- **2015: BMC Cancer**
- **2014: Chemical Biology and Drug Design**, Elsevier Publication
- **2014: Journal of Current Drug Delivery** (Bentham Publisher)
- **2012: Advisory Board Members**, International Journal of Analytical, Pharmaceutical and Biomedical Sciences” (IJAPBS)
- **2011: Natural Product Research**, Taylor & Francis Group Publishers, UK.
- **2011: Indian Journal of Pharmaceutical Sciences**, Medknow Publications, India
- **2010: The Journal of BIOLOGIA**, Springer-Verlag Publishers, Slovakia
- **2000: “Chimera”(Science Magazine)**, School of Life Sciences, Bharathidasan University

## **Patent Awarded**

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

This application claims the right of priority under 35 U.S.C. §119(a)-(d) to Indian Patent Application No. 1356/DEL/2005, filed May 26, 2005 and the text of application 1356/DEL/2005 is hereby incorporated by reference in its entirety

## **PUBLICATIONS**

### **Peer reviewed Journal**

1. Boopathi Subramaniyan, Kaviya Jagadeesan, Sabitha Ramakrishnan, **Ganeshan Mathan**. Targeting the interaction of Aurora kinases and SIRT1 mediated by Wnt signaling pathway in colorectal cancer: A critical review. *Biomedicine & Pharmacotherapy*, 82: 413–424. (IF:2.326)
2. Boopathi Subramaniyan, Navaneethakrishnan Polachi, **Ganeshan Mathan**. Isocoreopsin: An active constituent of n-butanol extract of *Butea monosperma* flowers against colorectal cancer (CRC). *Journal of Pharmaceutical Analysis*, 2016, 6(5): 318–325
3. Vinoth Prasanna Gunasekaran, Kumari Nishi and **Ganeshan Mathan\*** Structural and functional aspects of  $\gamma$  box binding protein in relation to its interactions with dna/rna/ extracellular receptors. *European Journal of Biomedical and Pharmaceutical Sciences*, 2016, 5:359-367 (IF:4.382)
4. 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, 28(5):929-43 (IF-2.50)

5. Tenzin Choedon, **Ganeshan Mathan** and Vijay Kumar. The traditional Tibetan medicine Yuckyung Karne exhibits a potent anti-metastatic activity by inhibiting the epithelial to mesenchymal transition and cell migration. *BMC, Complementary and Alternative Medicine*, 2015, 15:182. (IF-2.02)
6. 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. (IF-2.11)
7. Navaneethkrishnan Polachi, Prashantha Nagaraja, Boopathi Subramaniyan, **Ganeshan Mathan**, 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, *Asian J Pharm Clin Res*, Vol.No:8,1, 2015. (134-141) (ICV-3.98)
8. Tenzin Choedon, Dawa Dolma, **Ganeshan Mathan**, Vijay Kumar. Molecular Insights into the anti-cancer properties of traditional Tibetan medicine Yuckyung Karne. *BMC, Complementary and Alternative Medicine*, 2014, Oct 7;14(1):380. (IF-2.02)6.
9. Harni Nallusamy, Surendran Srinivasan and **Mathan Ganeshan**, Ameliorative effect of *Ixora javanica* flower extract on Streptozotocin induced diabetes in rats, *Biomedicine*, Vol.No:34,4, 2014
10. 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 (IF-2.02)
11. Navaneethkrishnan 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.
12. 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. (IF-2.22)
13. 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(IF-3.53)
14. **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. (IF-2.40)

15. 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.(IF-2.43)

### **Lab members**

#### **Post-Doctoral Scientists:**

**Dr. Kumari Nishi**, UGC-Post-Doctoral Scientist

#### **Graduate Students:**

**Mr. P.Navaneetha Krishnan**, (2011-2015)- Awarded

**Ms. R.Dhivya**, (2011-2015)- Submitted

**Ms.Tenzin Choedon**, (2012)-Ongoing

**Mr. S.Boopathy**, (2012)-Ongoing

**Mr. G. Vinoth Prasanna**, (2013)-Ongoing

**Ms. R.Sabitha**, (2013)-Ongoing