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QUALIFICATIONS:

January 2011, Ph.D., Bio - Medical Genetics - Pharmacology and Environmental Toxicology (Interdisciplinary) : University of Madras.

April 2003-M.Sc., (Bio-Medical Genetics), University of Madras.

April 2000-B.Sc., Microbiology- University of Madras.

RESEARCH INTERESTS:

Pharmacogenomics, Toxicogenomics, SNP detection, Cancer Genetics, Angiogenesis.

POST-DOC / WORK EXPERIENCE:

- 1) 2003– 2004: Research Assistant, YRG Centre for AIDS Research and Education (YRG CARE), VHS Hospitals, Taramani, Chennai 600 113,INDIA.
- 2) 2010– Present: Asst. Professor-Genetics, Faculty of Allied Health Sciences, Chettinad Hospital and Research Institute (CHRI), Kelambakkam, Chennai 603 103, India.

SUMMARY OF RESEARCH:

Papers	20	Citation	139	h- index	8	i10 Index	5
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Extra mural Research grant received:

S.No	Title of the Grant	Amount Sanctioned and the funding agency
1.	Synergistic effect of nano-formulated Kaempferol and Combretastatin on anti-angiogenesis: in-vitro and in ova approach	Sanctioned Amount: 46.26 L Department of Science and Technology (DST) Science and Engineering Research Board (SERB)

Patent filed:

Gowtham Kumar Subbaraj, Sindhu Varghese. A System and Device for dispensing sterile microbial culture media. Application number: 201841000242 IPO, Chennai, Dated:03/01/2018.

Invited Lecture delivered in Conference/seminar/Workshop:

SNo	Date	Topic/Venue
1	10/05/2016	ICMR sponsored National level Seminar on "Recent Advances in Orthopaedic implants using nanotechnology" Organized by VRS College of Engineering and Technology, Arasur, Villupuram-607 107.
2	04/07/2019 and 05/07/2019	UGC Autonomy Grant sponsored National Seminar "The new vistas in chemical Sciences". Organized by Department of Chemistry, Govt. College for Women (Autonomous), Kumbakonam

Publications

Sindhu Varghese, **S. Gowtham Kumar**. Association between genetic variants of NOS3, TGF- β and susceptibility of diabetic nephropathy: A meta-analysis. *Meta Gene* 21:100573, April 2019. DOI: 10.1016/j.mgene.2019.100573

Identification of potential inhibitors for Penicillin binding protein (PBP) from *Staphylococcus aureus*. L Kulanthaivel, J Jeyaraman, A Biswas, **Gowtham Kumar Subbaraj**, S Santhoshkumar, *Bioinformation* 14 (9), 471-476.

V. Ramakrishnan, R. S. Akram Husain, S. Gowtham Kumar. An overview of rare genetic disorders and recent diagnostic approaches, *Saudi Journal for Health Sciences* (2016) 5, 105-117.

Langeswaran K, Gowthamkumar S, Vijayaprakash S, Revathy R, Balasubramanian MP. Influence of limonin on Wnt signalling molecule in HepG2 cell lines. *J Nat Sc Biol Med* (4):126-33;2013. (Citation:27).

Kulanthaivel Langeswaran, Rajendran Revathy, Subbaraj Gowtham Kumar, Shanmugam Vijayaprakash, Maruthaiveeran Periyasamy Balasubramanian. Kaempferol ameliorates aflatoxin B1 (AFB1) induced hepatocellular carcinoma through modifying metabolizing enzymes, membrane bound ATPases and mitochondrial TCA cycle enzymes. *Asian Pacific Journal of Tropical Biomedicine*, S165-3S1659;2012. (Citation:15).

Peranandam Tamilselvan, Kulanthaivel Langeswaran, Shanmugam Vijayaprakash, Subbaraj Gowtham kumar, Rajendran Revathy, Maruthaiveeran Periyaswamy Balasubramanian. Efficiency of lycopene against reproductive and developmental toxicity of Bisphenol A in male Sprague Dawley rats, *Biomedicine & Preventive Nutrition*, 4, (4), 491-498; 2014.

V Ramakrishnan, S Gowtham Kumar, Radha Pandiyan. Klinefelter Syndrome and its association with Male Infertility. *As Pac JReprod*, 3(1): 77-79; 2014 (Citation:1).

R.Revathy, K. Langeswaran, S. Gowtham Kumar, S.Vijayaprakash, P.Tamilselvan, M P Balasubramanian. Anti-infertility significance of aqueous extract of Ipomoea batatas (L.) Lam. against exposure of bisphenol A (BPA) promoted testicular toxicity in male Sprague Dawley rats, *As Pac JReprod*, 2(4), 263-271;2013 (Elsevier)(Citation:3).

Jayaraman Jagadeesan, Kulanthaivel Langeswaran, Subbaraj Gowtham Kumar, Maruthaiveeran Periyaswamy Balasubramanian. Diosgenin exhibits beneficial efficiency on human mammary carcinoma cell line MCF-7 and against N-nitroso-N-methylurea (NMU) induced experimental mammary carcinoma. *Biomedicine & Preventive Nutrition*, 3(4), 381-388; 2013 (Elsevier) (Citation:2).

Shanmugam Vijayaprakash, Kulanthaivel Langeswaran, Subbaraj Gowtham Kumar, Rajendran Revathy, Maruthaiveeran Periyasamy Balasubramanian. Nephro-protective significance of kaempferol on mercuric chloride induced toxicity in Wistar albino rats. *Biomedicine & Aging Pathology*, 3;(3) 119-124; 2013 (Citation:6).

Kulanthaivel Langeswaran, Subbaraj Gowtham Kumar, Srinivasan Perumal, Rajendran Revathy, Maruthaiveeran Periyasamy Balasubramanian. Limonin – A citrus limonoid, establish anticancer potential by stabilizing lipid peroxidation and antioxidant status against N-nitrosodiethylamine induced experimental hepatocellular carcinoma. *Biomedicine & Preventive Nutrition*, 3(2), 165-171;2013 (Citation:5).

Gowtham kumar S, Ramakrishnan V, Madhusudhanan N, and Balasubramanian MP. 2011. Antioxidant activity of Allyl isothiocyanate [AITC] against N-nitrosodiethylamine induced experimental liver carcinogenesis, *Journal of Pharmacy Research*. 4-(10).

S. Gowtham Kumar, V.Ramakrishnan, N.Madhusudhanan, G.Thiyagarajan, K.Langeswaran, and M.P. Balasubramanian. 2011. p53 and caspase 3 gene expression potential of allyl isothiocyanate evaluated on human hepatoma cell line (HepG2). *International journal of biological & pharmaceutical research*. 2(1); 19 - 26.

Ramakrishnan V, Gowtham kumar S and Madhusudhanan. Nov- 2011. N Genetic basis of coronary artery disease and its risk factors, *Journal of Pharmacy Research*.

Madhusudhanan N, Lakshmi T, Gowtham Kumar S, Ramakrishnan, Venu Gopala Rao Konda, Anitha Roy and Geetha R.V. Jul-Sep 2011. "Invitro Antioxidant And Free Radical Scavenging Activity Of Aqueous And Ethanolic Flower Extract Of Nymphaea Alba", *Int. J. Drug Dev. & Res*. 3(3); 252-258.

V.Ramakrishnan, S. Gowtham Kumar, G.Thiyagarajan N.Madhusudhanan and S Vincent. 2011.The use of cytokinesis-block micronucleus (CBMN) assay to identify DNA damage in patients with coronary artery disease' Int JMed Res. 1(2); 111-117.

V.Ramakrishnan, S. Gowtham Kumar, N.Madhusudhanan G.Thiyagarajan,and S.Govindaraju. 2011. " Effect of 2-Deoxy- D- Glucose and Cyclophosphamide mediated modification of induced genetic damage in albino Mice " International journal of biological & Pharmaceutical research. 131–138; Impact factor: 0. 92.

V.Ramakrishnan, S. Gowtham kumar and S.Govindaraju. 2011." Cytogenetic analysis of micronuclei, sister chromatid exchange and chromosomal aberrations in pan masala chewers" International journal of Pharma and Biosciences. 2(3); 01– 13.

Madhusudhanan N, Ruckmani A, Gowtham kumar S, Ramakrishnan Vand Balasubramanian MP. 2011. " Invitro cytotoxic activity of berberine on human lung carcinoma cell line A549" Journal of Pharmacy Research.Vol 4, No 12.

V.Ramakrishnan, G.Thiyagarajan, S.Pulavendran, S.Gowtham Kumar, N.Madhusudhanan and S Vincent. 2010. 'Study of Serum Metals and Antioxidant Enzymes in Patients with Coronary Artery Disease. International Journal of Genetic Engineering and Biotechnology. 1(3); 205 – 216.

BOOK CHAPTERS:

1. **S.Gowtham Kumar** , S. Solai Priya, Sindhu Varghese (2017) *Cancer versus nutraceuticals*. Chapter # 8. Molecular targets for nutraceuticals on cancer progression. pp: 205-228. Nova Science Publishers, USA (ISBN: 978-1-53612-529-0).
2. S. Weslen Vedakumari, **S.Gowtham Kumar**., R. Senthil (2017). *Cancer versus nutraceuticals*, Chapter # 6. Role of nano -nutraceuticals in treatment of cancer.pp 159-184, Nova Science Publishers USA (ISBN: 978-1-53612-529-0).
3. **S. Gowtham Kumar**, (2016) *Disorders of Gastrointestinal Systems and Clinical Manifestations*. Chapter # 9. Microbial interaction on gastro intestinal system: unique molecular signature in establishment of infections. pp: 129-142, Nova Science Publishers USA (ISBN: 978-1-63485-366-8).
4. **S. Gowtham Kumar**, R. Karthik, V. Manigandan, Saravanan,R (2015). *Heaptotoxicity symptoms management and health implications*: Chapter # 4. Hepato -protective effect of phloroglucinol from south Indian marine macro algae against liver disorders., pp:51-78, Nova Science Publishers, USA (ISBN:798-1-63482-650-1)
5. Sindhu Varghese, **Gowtham Kumar Subbaraj** (2019). *Advances in Therapeutics and Diagnostics of Human Diseases*. Chapter # 12, Genome Wide Detection of Candidate Gene Polymorphism for Early Diagnosis of Diabetic Nephropathy. Nova Science Publishers, USA (ISBN:978-1-53615-382-8).

BOOK / MONOGRAPH PUBLISHED:

1) S. Gowtham Kumar. Aug 2011. “ Allyl isothiocyanate-A Promising drug for Liver Cancer, ISBN: 978-3-8454- 3057-7, Lambert Academic Publishing, Germany.

2) S.Gowtham Kumar *et al*, Cadmium Toxicity, ISBN: 978-3-8473-0609-2, Lambert Academic Publishing, Germany.

MEMBERSHIP:

1. Life member in Indian Association of Bio- Medical Scientists (IABMS), Chennai.
2. Member, Board of Studies, Chettinad Academy of Research and Education.