

## DR. S. GOWTHAM KUMAR

Assistant Professor  
Department of Genetics  
Chettinad Hospital & Research Institute  
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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:

SNP detection, Cancer Genetics, Antibacterial Screening, 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	16	Citation	126	h-index	7	i10 Index	5
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## Publications

1. 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.
2. 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).
3. 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, S1653-S1659; **2012**. (Citation:15).
4. 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**.
5. 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)..
6. 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 J Reprod, 2(4), 263-271; **2013** (Elsevier)(Citation:3).
7. 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).

8. 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)..
9. 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).
10. **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); Impact factor: 1.09.
11. **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; Impact factor: 0.92.
12. Ramakrishnan V, **Gowtham kumar S** and Madhusudhanan. Nov-2011. Genetic basis of coronary artery disease and its risk factors, *Journal of Pharmacy Research*; Impact factor: 1.09.
13. 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.

14. 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 J Med Res. 1(2); 111-117.
15. 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.
16. 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.
17. Madhusudhanan N, Ruckmani A, **Gowtham kumar S**, Ramakrishnan V and Balasubramanian MP. 2011. "Invitro cytotoxic activity of berberine on human lung carcinoma cell line A549" Journal of Pharmacy Research. Vol 4, No 12.
18. 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. Molecular targets for nutraceuticals on cancer progression S.Gowtham Kumar, R. Solai Priya, Sindhu Vargese, Nova Science Publishers, USA (2017).
2. Role of nano-nutraceuticals in treatment of cancer. S. Weslen Vedakumari, S.Gowtham Kumar, R. Senthil. Nova Science Publishers, USA (2017).
3. Microbial interaction on gastro intestinal system: unique molecular signature in establishment of infections. S. Gowtham Kumar, Nova Science Publishers, USA (2016).

4. Hepato-protective effect of phloroglucinol from south indian marine macro algae against liver disorders. S. Gowtham Kumar, R. Karthik, V. Manigandan, Saravanan,R. Nova Science Publishers, USA (2015).

### **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-Impact on reproductivity, ISBN: 978-3-8473-0609-2, Lambert Academic Publishing, Germany.

### **MEMBER:**

1. Life member in Indian Association of Bio-Medical Scientists (IABMS), Chennai.
2. Member, Board of Studies, Chettinad Academy of Research and education from 2017-2019
3. Editorial Membership: (i) Gene and Cell Therapy-Science publishing group, NY 10018 U.S.A.

[www.sciencepublishinggroup.com/journal/editorialboard?journalid=364](http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=364)

(ii) International Journal of Pharmacy and Pharmaceutical Sciences-India.

<http://innovareacademics.in/journals/index.php/ijpps/pages/view/editorial-board>

### **International Conference Attended:**

1. Participated in "**1st International Stem Cell Summit-2009**" organized by Indian Institute of Technology, Madras & Lifeline Hospitals held at IIT, Madras Chennai during 14th-16th November-2008.
2. Participated and presented a paper in a "**International Conference on Molecular Medicine-2009**" organized by Department of Biotechnology, Indian Institute of Technology, Madras & Laila Pharmaceuticals, held at IITM, Chennai during 18th-20th January 2009.

3. Participated in "**Chettinad International Fertility Colloquium 2015**" organized by Department of Reproductive Medicine, Chettinad Hospital and Research Institute, held at Chettinad University, Kelambakkam during 27th November-2015.

4. Participated in "**Chettinad International Fertility Colloquium 2014**" organized by Department of Reproductive Medicine, Chettinad Hospital and Research Institute, held at Chettinad University, Kelambakkam during 21st September 2014.

5. Participated in International Symposium on "**Current trends in Clinical Genetics and Genomic Medicine**" organized by Department of Reproductive Medicine, Chettinad Hospital and Research Institute, held at Chettinad University, Kelambakkam during 21-23rd March 2011.

**National Conference/Seminar Attended:**

13. Participated in the Seminar on "**Examination and evaluation reforms in Health Sciences**" organized by internal Quality assurance cell, Chettinad University, Chennai on 23<sup>rd</sup> March 2015.

12. Participated in the International Conference on "**Emerging trends in Bio - Engineering**" organized by Department of Bioengineering, Bharath University, Chennai on 28th & 29th March 2011.

11. Participated in the International Conference on "**Greenomics-The Key Role of Life Sciences for Sustainable in the World**" organized by Department of Life Sciences, Hindustan University, Chennai on 30th & 31st August 2010.

10. Participated in state level symposium on "**Bio-Nanotechnology**" organized by Chettinad University, Chennai, India, on 15th & 16th July 2009.

9. Participated in state level symposium on '**Health Care Outlook 2050**' Department of Biotechnology, Indian Institute of Technology (IIT) Madras, Chennai and Laila Pharmaceuticals Pvt. Ltd., Chennai, India, on 3rd May 2010.

8. Participated in a workshop on "**Patent Awareness**" jointly organized by University of Madras & Tamil Nadu State Science & Technology on 17th April-2009.
7. Participated in one day seminar on "**Stress management**" held at Dr.ALMPGIBMS, University of Madras, Chennai on 24th February 2009.
6. Participated and presented a paper in a "**International Conference on Molecular Medicine-2009**" organized by Department of Biotechnology, Indian Institute of Technology, Madras & Laila Pharmaceuticals, held at IITM, Chennai during 18th-20th January 2009.
5. Participated in "**1st International Stem Cell Summit-2009**" organized by Indian Institute of Technology, Madras & Lifeline Hospitals held at IITM, Chennai during 14th-16th November-2008.
4. Participated in a "**Conference of Southern Regional Indian Pharmacological Society**" organized by Department of Pharmacology, Jawaharlal institute of Post Graduate Medical Education & Research on 11-13 July 2008.
3. Participated in Science seminar on "**Basic Sciences: Scope and Hope**", organized by University of Madras, Chennai on 23rd August 2007.
2. Participated in National level seminar on Trends on "**Current trends in Nanotoxicology**", 23-24 March, 2007 held at Department of Pharmacology and Environmental Toxicology, University of madras.
1. Participated in National level Conference on "**Genomics: Impact on Human Health**" held on 2-3 February, 2007 organized by Department of Zoology, Osmania University and Andhra Pradesh Akademi of Sciences, Hyderabad.

**Workshop/Trainings Attended:**

1. Jan 2008 **Thesis Writing and Scientific Paper Publishing**, Science City, Chennai.

2. May 2008 Practical **Summer Training On Chromatography and Molecular Biology Techniques**, VIT University, Vellore.