



**Dr.S.GOWTHAM KUMAR,**  
**Associate Professor-Genetics,**

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Chettinad Academy of Research and Education (Deemed to be University),  
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## **EXPERIENCE**

- **January 2019 – till date- Associate Professor,**  
Faculty of Allied Health Sciences,  
Chettinad Academy of Research and Education (Deemed University), Kelambakkam-603 103,  
Tamil Nadu, India.
- **March 2010 – December 2018- Assistant Professor,**  
Faculty of Allied Health Sciences,  
Chettinad Academy of Research and Education (Deemed University), Kelambakkam-603 103,  
Tamil Nadu, India.
- **Feb 2007-March 2010**  
**Junior Research Fellow (UGC),** Department of Pharmacology &ET, University of  
Madras, Dr. ALM PG IBMS, Taramani Campus, Chennai-600 113.
- **Nov 2003- June 2005 Research Assistant,**  
YRG Centre for AIDS Research and Education,  
VHS Hospital campus, Chennai - 600 113

## **EDUCATION**

### **Ph.D.: Bio-Medical Genetics- Pharmacology and Environmental Toxicology**

(Interdisciplinary) (Regular -Full time) - 2007-2011

Institute: Dr. ALM PG Institute of Basic Medical Sciences,  
Taramani campus, **University of Madras.**

### **Master of Science: Bio-Medical Genetics (First Class)**

(Regular-Full time) 2001-2003,

Institute: Dr. ALM PG Institute of Basic Medical Sciences,  
Taramani campus, **University of Madras**

### **Bachelor Science: Microbiology (First Class)**

(Regular-Full time) 1996-2000

Institute: Muthayammal College of Arts and Science,  
Affiliated to **University of Madras**

**PhD Thesis Details:**

Degree	Title of the thesis	Date and Year of Award	University
Ph.D.	Efficacy of Allyl isothiocyanate against N-nitrosodiethylamine induced liver cancer in rats and in human hepatoma cell line (HepG2)	12/01/2011	University of Madras

**PATENT GRANTED:**

S.No	Title of the invention	Application number	Date of filing	Status
1.	Patent Number :517228 “An Apparatus For Streaking Microbial Sample”	202041051678	27/11/2020	Patent Granted

**PATENT FILED:**

S.No	Title of the invention	Application number	Date of filing	Status
1.	A system and device for dispensing sterile microbial culture Media.	201841000242	03/01/2018	Application referred for examination.
2.	System and fabrication of replica plating apparatus and applications Thereof	202141056736	17/12/2021	Patent Published in IP Journal Issue No. 51/2021

**Extra Mural Research Grant received:****Status: Completed****(03/03/ 2019 to 03/03/2022)**

S No	Principal Investigator	Total Grant And Funding agency
1	Dr.S.Gowtham Kumar <b>Grant Number:</b> 2018/000882 (Duration: From 03/03/2019 To 03/03 2022) <b>Title:</b> “Synergistic effect of nano- formulated kaempferol and combretastatin on anti-angiogenesis : <i>in-vitro</i> and <i>in ova</i> approach.”	Rs.46,00,000/ Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Government of India

**Book Edited:**

S.No	Book Title and Total Page number	Role	ISBN Number	Category	Publisher
1.	Cancer versus Nutraceuticals 248 pages	Chief Editor	ISBN 978-1-53612-529-0	Cancer Etiology, Diagnosis and Treatments, Medicine and Health, Oncology	Nova Science Publishers, NY, 11788 USA
2.	Advances in Therapeutics and Diagnostics of Human Diseases 350 pages	Chief Editor	ISBN: 978-1-53615-382-8	Medical Procedures, Testing and Technology, Medicine and Health	Nova Science Publishers, NY, 11788 USA

**Book Chapters:**

S.No	Chapter title	Book Title	ISBN Number and Publisher
1.	Clubfoot, Congenital, With or Without Deficiency of Long Bones And /Or Mirror-Image Polydactyly (CCF)”	Genetic Syndromes: A Comprehensive Reference Guide	ISBN: 9783-319-66816-1 Springer Nature (In Press)
2.	Nephrotic syndrome	Genetic Syndromes: A Comprehensive Reference Guide	ISBN: 9783-319-66816-1 Springer Nature (In Press)
3.	Spinocerebellar Ataxia Autosomal Recessive (SCAR)20, 21, 23, 24	Genetic Syndromes: A Comprehensive Reference Guide	ISBN: 9783-319-66816-1 Springer Nature (In Press)
4.	Phytochemicals and Natural Extracts, Secondary Metabolites of Plants and Improvement of Brain Function	Neuroprotective Effects of Phytochemicals in Brain Ageing	ISBN: 978-981-99-7268-5 Springer Nature
5.	Repurposing of Drugs in Aging	Neuroprotective Effects of Phytochemicals in Brain Ageing	ISBN: 978-981-99-7268-5 Springer Nature
6.	Introduction to Rare Genetic Disorders	Rare Genetic Disorders	ISBN 978-981-99-9322-2 Springer Nature
7.	Pathophysiology of Obsessive-Compulsive Disorder	Nutrition and Obsessive-Compulsive Disorder: The Interplay	ISBN:9781003387893 2024 (pp. 114-131). Taylor & Francis CRC Press.

8.	Squamous Cell Carcinoma Predisposition Pathophysiology, Diagnosis, and Treatment.	Handbook of Oncobiology: From Basic to Clinical Sciences	ISBN:978-981-99-6262-4 Springer Nature 2024
9.	Role of phospholipase A2 in squamous cell carcinoma and breast cancer	Phospholipases in Physiology and Pathology	ISBN:978-0-323-95687-1 Academic Press, Elsevier
10.	Mechanistic role of stem cells in the pathogenesis and treatment of oral diseases: current insights and future directions	Stem Cells and Signaling Pathways	ISBN:978-0-443-18800-8 Academic Press, Elsevier
11.	Genetic predisposition and pathophysiology of oral squamous cell carcinoma	Biomarkers in Cancer Detection and Monitoring of Therapeutics-Volume 2: Diagnostic and Therapeutic Applications	ISBN:978-0-323-95114-2 Academic Press, Elsevier
12.	Preventive Role of Nutraceutical Agents Against Aging	Evidence-based Functional Foods for Prevention of Age-related Diseases	ISBN:978-981-99-0533-1 Springer Nature
13.	Perspective of algae materials 2.0	Algae Materials	ISBN:9780443188169 Academic Press, Elsevier
14.	Diabetic and Nephropathy	Advances in Diabetes Research and Management	ISBN:978-981-19-0027-3 Springer Nature
15.	Diabetes and Other Comorbidities: Microvascular and Macrovascular Diseases: Diabetes and Cancer	Advances in Diabetes Research and Management	ISBN:978-981-19-0027-3 Springer Nature
16.	Proteins Drug Targeting and Its Therapeutics	Therapeutic Proteins Against Human Diseases	ISBN-13. 978-9811678967 Springer Nature
17.	Chorioallantoic Membrane (CAM) and <i>In Ovo</i> Models as Potential Platforms for Testing Cancer Agents	Handbook of Animal Models and its Uses in Cancer Research	ISBN-13:978-9811938238 Springer Nature.
18.	Imaging modalities for congenital heart disease and genetic polymorphism associated with coronary artery and cardiovascular diseases	Cardiovascular and Coronary Artery Imaging Volume 2	ISBN: 978-0-12-821983-6 Academic Press, Elsevier
19.	A Promising Therapeutic for Cancer Model and Alzheimer's Disease	Handbook of Animal Models and its Uses in Cancer	ISBN: 9789811938238 Springer Nature.

		Research	
20.	Triple-Negative Breast Cancer (TNBC): Clinical Features and Therapeutic	Handbook of Animal Models and its Uses in Cancer Research	ISBN: 9789811938238 Springer Nature.
21.	Experimental Model for Pancreatic Cancer and Its Therapeutic Implications in Clinical Research	Handbook of Animal Models and its Uses in Cancer Research	ISBN: 9789811938238 Springer Nature.
22.	Therapeutic Approaches and Models in Retinoblastoma	Handbook of Animal Models and its Uses in Cancer Research	ISBN: 9789811938238 Springer Nature.
23.	Gene polymorphism and the risk of coronary artery disease	Cardiovascular and Coronary Artery Imaging- Volume I; 1st Edition	ISBN: 978-0-12-822706-0 Academic Press, Elsevier
24.	Genomic association of polycystic ovarian syndrome: Single nucleotide Polymorphism and their role in disease Progression.	Computations in Bioinformatics and its multidisciplinary applications	ISBN: 9781119654803 Scrivener Wiley Publishing
25.	Genome Wide Detection Of Candidate Gene Polymorphism For Early Diagnosis Of Diabetic Nephropathy	Advances In Therapeutics And Diagnostics Of Human Diseases	ISBN: 978-1536153828 Nova Biomedical Publisher, USA
26.	Phytotherapeutic Approaches of <i>Ficus religiosa</i> (Linn) for Benzo(a)Pyrene Induced Testicular Toxicity	Advances In Therapeutics And Diagnostics Of Human Diseases	ISBN: 978-1536153828 Nova Biomedical Publisher, USA
27.	Molecular Targets For Nutraceuticals On Cancer Progression	Cancer Versus Nutraceuticals	ISBN: 9781536125290 Nova Biomedical Publisher, USA
28.	Role Of Nano- Nutraceuticals In Treatment Of Cancer.	Cancer Versus Nutraceuticals	ISBN: 9781536125290 Nova Biomedical Publisher, USA
29.	Microbial Interaction On Gastro Intestinal System: Unique Molecular Signature In Establishment Of Infections	Disorders Of Gastrointestinal Systems And Clinical Manifestation	ISBN: 9781634853668 Nova Biomedical Publisher, USA

30.	Hepato-Protective Effect of Phloroglucinol From South Indian Marine Macro Algae Against Liver Disorders Liver Disorders.	Hepatotoxicity: Symptoms, Management and Health Implications	ISBN: 9781634826952 Nova Biomedical Publisher, USA
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### Monographs Published:

S.No	Chapter title	Publisher and ISBN Number
1.	Allylisothiocyanate A Promising drug for Liver Cancer	Lambert Academic Publishing GmbH & Co. KG, Germany; 2011; ISBN: 978-3-8454-3057-7
2.	Cadmium Toxicity-Impact on reproductivity	Lambert Academic Publishing GmbH & Co. KG, Germany; 2011 ISBN: 978-3-8473-0609-2
3.	Limonin against Hepatocellular Carcinoma	Lambert Academic Publishing GmbH & Co. KG, Germany. ISBNNo: 978-3-8484-9905-2
4.	Role of <i>Ipomoea batatas</i> (L) against male infertility	Lambert Academic Publishing GmbH & Co. KG, Germany ISBNNo: 978-3-659-41875-4,
5.	Diosgenin against Chemical Induced Mammary Carcinogenesis and In MCF-7 Human Breast Cancer Cell Line	Lambert Academic Publishing GmbH & Co. KG, Germany ISBNNo: 978-3-659-15661-8

### Faculty Development Program attended:

S No	Date	Topic	Organizing Institute
1	27/05/2024 to 31/05/2024	Gender and Disaster management	Mother Teresa Womens University, Kodaikanal and National Institute Of Disaster Management, Ministry of Home Affairs, Government of India.
2	22/11/2021 to 26/11/2021	Gene and Genome Technology for Biologists	Bihar Animal Sciences University.(AICTE Training And Learning (ATAL) Academy OnlineFDP :ATAL/2021/1623299248)

3	4/10/2021 to 08/10/2021	Drug Engineering	Sardar Patel College of Engineering, Mumbai. (AICTE Training And Learning(ATAL) Academy Online FDP ATAL/2021/1623298870
4	14/09/2021 to 18/09/2021	Applications of Biotechnological and Analytical Tools in Pharmaceutical Research	Meerut Institute of Engineering & Technology. (AICTE Training And Learning (ATAL) Academy Online DP ATAL/2021/1630644832
5	21/08/2021	Development and Delivery of e-Content	Department of English, FAHS in collaboration with IT department, Chettinad Academy of Research and Education (Deemed to be University)
6	24/06/2020 to 30/06/2020	Teach the teachers	The Headway Academy, Chennai

**Training Courses, Teaching-Learning-Evaluation Technology Program, and Faculty Development Program Organized:**

Sl. No.	Name of the Program	Duration	Organized by
1	Design of learning outcome based curricular framework (LOCOF) for biomedical sciences	27 <sup>th</sup> to 30 <sup>th</sup> Dec 2019	Faculty of Allied health sciences, Chettinad Academy of Research and Education, Kelambakkam, Chennai, India
2	Attainment on learning outcomes-based curriculum Framework design	2 <sup>nd</sup> to 5 <sup>th</sup> Dec 2019	Faculty of Allied health sciences, Chettinad Academy of Research and Education, Kelambakkam, Chennai, India

**Conferences, Seminars, Workshops and Symposia Organized**

Sl. No.	Title of Conference / Seminar/Workshop/Symposia	Duration	Whether International / National / State / Regional / College or University level
1	Two days National workshop on cellular and Molecular Diagnostics. Hands on Training.	10 and 11 Feb 2017	National Level Workshop
2	Recent advances in nucleic acid extraction	4 <sup>th</sup> March 2023	National Level Workshop
3	Nanotechnology in Medicine	8 <sup>th</sup> and 9 <sup>th</sup> September 2017	National Level Conference

4	Advances in Clinical and Molecular Diagnostics Present and Future	23 <sup>rd</sup> and 24 <sup>th</sup> November 2022	National Level Workshop And Symposium
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**Invited Lecture delivered in Conference/seminar/Workshop:**

SNo	Date	Topic/Venue
1	10/05/2016	ICMR sponsored National level Seminar on “Recent Advances in Orthopedics implants using nanotechnology” Organized by VRS College of Engineering and Technology, Arasur, Villupuram-607 107.
2	04/07/2019	UGC Autonomy Grant sponsored National Seminar “The new vistas in chemical Sciences”. Organized by Department of Chemistry, Govt. College for Women (Autonomous), Kumbakonam
3	13/03/2021	National Virtual Seminar on New era in <i>in silico</i> biology and DNA polymorphism in health and disease” Organized by St. Joseph College of Arts and Science (Autonomous), Thiruchirapalli- 620002.
4	03/04/2021	State level symposium on implications for health and design Organized by Kandaswami Kandars College, Paramathivelur, Namakkal-638 182.
5	29/03/2022	Invited lecture on Advancements in Molecular Therapeutics Organized by Department of Microbiology, Sri Ganesh College of Arts and Science, Ammapet, Salem-636 014.
6	17/05/2022	Invited lecture on “Molecules as Medicine and Diagnostic approach on Inherited Disorders” Organized by Department of Biochemistry, Vivekananda College of Arts and Science for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal (Dt)
7	30/08/2022	Invited lecture on “Genomic Medicine An update” Organized by Department of BioMedical Sciences, Alagappa University, Karaikudi, TamilNadu, India
8	16/02/2024	Invited lecture on “National Conference on Recent Advances in Microbial research and Pharmacological innovation”, AVS College of Arts and Sciences (Autonomous) Salem-636 106, TamilNadu, India
9	31/01/2024	Invited lecture on “Nano formulation and therapeutics” Organized by Department of BioMedical Sciences, Alagappa University, Karaikudi, TamilNadu, India

**Honors/Awards/Recognition/Fellowships for outstanding work:**

Sl.No.	Name of the Honor/Award/ Recognition/ Fellowship	Awarded by	International/ National	Year of Award
1	Har Gobin Khorana Best Scientist Award	Bose Science Society, Pudukkottai, Tamil Nadu, India	National	2020



## PhD Guidance:

S. No	Name of the Scholar	Title	Awarded/Pursuing
1.	Sindhu Varghese (CARE JRF)	Selected Genetic polymorphism in association with Diabetic Nephropathy in Type -II patients -Case vs Control Study	Awarded
2.	Santhosh Kumar Y (DST-SERB JRF)	Anti-angiogenic and anti-cancer activities of Nano formulated Naringenin in combination with Selenium Nano-particles	Awarded
3.	Sharon Benita S (CARE JRF)	Evaluation of Anti-Angiogenic and Anti-cancer activities of flavonoid based metal complex by using <i>in-vitro</i> and <i>in-ova</i> analysis.	Pursuing
4.	Bibin Savio A (CARE JRF)	Anti-cancer, pro-angiogenic and anti-angiogenic activities of nano-encapsulated flavonoid in animal model and cancer cell line.	Pursuing

## Research Publications (Scopus/Web of Science/PubMed indexed):

Velmurugan Saranya; Pauline Rashmi; Chandrashekar Gurudeva; Kulanthaivel Langeswaran; Subbaraj Gowtham Kumar. Understanding the Impact of the Sirtuin 1 (SIRT1) Gene on Age-related Macular Degeneration: A Comprehensive Study. Nigerian Postgraduate Medical Journal 31(2):93-101,2024. DOI: 10.4103/npmj.npmj\_9\_24 (Impact factor: 1.10).

Y. Santhosh Kumar, C. Gurudeva, G. Sridevi, S.Gowtham Kumar. Nanotechnology's impact on ocular drug delivery: a meta-analysis-based examination. Nano Biomedicine and Engineering, 2024. <http://doi.org/10.26599/NBE.2024.9290081>

Gowtham Kumar Subbaraj, Narayanan M. The interplay between oral microbiome, malnutrition, and oral cancer/diseases. Oral Oncology Reports. 2024 Jun 1; 10:100287.

Thangam C, Rozario Cyril, Jayasree R, Santhosh Kumar Y, Langeswaran K, Gowtham Kumar S. Enhancement of Oral Bioavailability of Drugs through Nanotechnology: Comprehensive Review and Meta-Analysis Journal of Preventive, Diagnostic and Treatment Strategies in Medicine. 2023; 2(4): 187 - 193.

Bhat GR, Sethi I, Sadida HQ, Rah B, Mir R, Algehainy N, Albalawi IA, Masoodi T, Subbaraj Gowtham Kumar, Jamal F, Singh M. Cancer cell plasticity: from cellular, molecular, and genetic mechanisms to tumor heterogeneity and drug resistance. Cancer and Metastasis Reviews. 2024 Feb 8:1-32 (Impact factor: 9.2).

Kathiresan N, Selvaraj C, Pandian S, Subbaraj Gowtham Kumar, Alothaim AS, Safi SZ, Kulathaivel L. Proteomics and genomics insights on malignant osteosarcoma. Advances in Protein Chemistry and Structural Biology. 2023 Nov 28; 138:275-300 (Impact factor 7.9).

Infant Deepthi S., Sangavi P., Priyanka G., Kirubhanand C., Nachammai KT., Gowtham Kumar S. & Langeswaran K. Discovery of Potential Inhibitors for SFRP3: Ligand-Based 3D Pharmacophore, Virtual Screening, Molecular Docking, and Dynamics Studies, Polycyclic Aromatic Compounds, DOI: 10.1080/10406638.2023.2283626 (Impact factor 2.4).

Sakthivel K, Ganapathy P, Chandrasekaran K, Subbaraj Gowtham Kumar, Kulanthaivel L. A Computational Investigation on Chitosan Derivatives using Pharmacophore-based Screening, Molecular Docking, and Molecular Dynamics Simulations against Kaposi Sarcoma. Current Computer-Aided Drug Design. 2024 Jun 1;20(3):248-63 (Impact factor 1.7).

Pauline R, Devaraj DV, Sivasubramanian J, Velmurugan S, Stephen SB, Yasam SK, Kulanthaivel L, Subbaraj Gowtham Kumar. Systemic Assessment of Solute Carrier Family 11-member A1 (rs17235409) Gene Polymorphism and Mycobacterium Tuberculosis Risk in Asian and Caucasian Population: A Comprehensive Updated Meta-analysis. The International Journal of Mycobacteriology. 2023 Oct 1;12(4):467-77.

Yasam SK, Chandrashekar G, Ganapathy P, Jaganathan R, Kulanthaivel L, Subbaraj Gowtham Kumar. Association of FGFR2 rs2981582 polymorphism and breast cancer susceptibility: An updated systematic review and meta-analysis. Human Gene. 2023 Aug 9:201212.

Antony BS, Nagarajan C, Thomas KE, Stephen SB, Yasam SK, Subbaraj Gowtham Kumar. IFN-gene polymorphisms as a risk factor for tuberculosis infection in Asian populations: A meta-analysis. The International Journal of Mycobacteriology. 2023 Jul 1;12(3):226-34.

Prabakaran L, Sathyaraj WV, Yesudhasan BV, Subbaraj Gowtham Kumar, Atchudan R. Green Synthesis of Multifunctional Silver Nanoparticles Using *Plectranthus amboinicus* for Sensitive Detection of Triethylamine, with Potential In Vitro Antibacterial and Anticancer Activities. Chemosensors. 2023 Jul 4;11(7):373.

Gowtham Kumar Subbaraj, Tariq Masoodi, Santhosh Kumar Yasam, Kirubhanand Chandrashekar, Langeswaran Kulanthaivel, Noor Ahmad Shaik, Sheema Hashem, Ammira S. Alshabeeb Akil, Ajaz A. Bhat. Anti-angiogenic effect of nano-formulated water soluble kaempferol and combretastatin in an *in vivo* chick chorioallantoic membrane model and HUVEC cells. Biomedicine & Pharmacotherapy, 163, 2023, 114820, <https://doi.org/10.1016/j.biopha.2023.114820>.

Subbaraj GK, Elangovan H, Chandramouli P, Yasam SK, Chandrasekaran K, Kulanthaivel L, Pandi S, Subramanian S. Antiangiogenic Potential of Troxerutin and Chitosan Loaded Troxerutin on Chorioallantoic Membrane Model. BioMed Research International. 2023 May 23;2023.

Aavula T, Venkatesan M, Yasam SK, Subbaraj GK, Ramachandran S. Extraction, formulation, structural characterization and cardiotoxicity effect of agar from *Turbinaria conoides* in zebrafish embryo model. Biomass Conversion and Biorefinery. 2023 Apr 25:1-7.

Senthilkumar Subramanian, Lakshmi Sundaram R, Ram Krishna Rao M, Perumal Elumalai, Prabhu K, S. Gowtham Kumar, Langeswaran K, and Nachammai KT. Antioxidant, anti-inflammatory, and anti-carcinogenic efficacy of an ayurvedic formulation–amritotharanam kashyam. *Advances in Pharmacological and Pharmaceutical Sciences*.

Nachammai.KT, Sangavi.P, Priyanka G, Thameema Parveen S, Kirubhanand C Gowtham Kumar S Langeswaran K. Exploration and validation of lead molecules against yellow fever through high throughput virtual screening and molecular dynamics simulation. *Letters in Drug Design & Discovery* (IF-1.09).

Kumar YS, Langeswaran K, Chandrashekar GK, Priyanka G, Gowtham Kumar Subbaraj. Association of RAMP-1 gene polymorphisms and risk of migraine: Systemic review and meta-analysis. *Human Gene*. 2023 Feb 21:201157.

Gowtham Kumar S, Kirubhanand C, Merciline Leonorab J, Anitha S, Sangeetha R, Nachammai KT, Langeswaran K. Targeting potential receptor molecules in non-small cell lung cancer (NSCLC) using *in silico* approaches. *Frontiers in Molecular Biosciences*. 10:58 (IF: 6.1).

Nachammai KT, Ramachandran S, Nagarajan C, Kulanthaivel L, Subbaraj Gowtham Kumar, Chandrasekaran K, Paramasivan V, Subramanian S. Exploration of Bioinformatics on Microbial Fuel Cell Technology: Trends, Challenges, and Future Prospects. *Journal of Chemistry*. 2023 Jan 27; 2023 (IF: 3.2).

Thangam C, Cyril R, Jayasree R, Yasam SK, Kulanthaivel L, Asir AB, Subbaraj Gowtham Kumar. Preliminary screening of nano formulated naringenin with reference to molecular docking, characterization and biomedical application. *Journal of Pharmaceutical Negative Results*. 2023 Jan 1:1926-38.

Sangavi P, Langeswaran K, Gowtham Kumar S. Anticarcinogenic Efficacy of Fucoxanthin on HepG2 Cell Lines. *Journal of Clinical & Diagnostic Research*. 2022 Feb 1; 16(2).

Santhosh Kumar Y, Thangam C, Cyril R, Murugan H, Selvaraj S, Langeswaran K, Gowtham Kumar S. Anti-angiogenic activity of nano naringenin on chick chorioallantoic membrane model. *Journal of Pharmaceutical Negative Results*. 2022 Dec 24:4038-47.

R.Sangeetha, Premkumar,S. S. Maithili,C. Kirubhanand, S. Gowtham Kumar, P. Sangavi,K. Langeswaran.Spectroscopic, Solvent Effect, Molecular Docking and Molecular Dynamics Investigations on Phytocompounds from *Elettaria cardamomum* against Covid-19.Polycyclic Aromatic Compounds, <https://doi.org/10.1080/10406638.2022.2086270>,2022 (IF=2.1).

Saraswathi N, Girigoswami K, Divya KC, Gowtham Kumar S, Girigoswami A. Degree of Gelatination on Ag-Nanoparticles to Inactivate Multi-drug Resistant Bacterial Biofilm Isolated from Sewage Treatment Plant. *Current Drug Delivery*, 2022 May 9 (IF=3.7).

Shaslinah N, Sangavi P, Sangeetha R, Gowtham Kumar S, Sindhu V, Langeswaran K. Screening and identification of potential inhibitor for visceral leishmaniasis (VL) through computational analysis.

Journal of Genetic Engineering and Biotechnology. 2022; 20(1):1-2 (IF=3.5).

Varghese S, Gowtham Kumar S. Role of eNOS and TGFβ1 gene polymorphisms in the development of diabetic nephropathy in type 2 diabetic patients in South Indian population. Egyptian Journal of Medical Human Genetics. 2022 Dec; 23(1):1-0 (IF=1.3).

Pandi S, Kulanthaivel L, Gowtham Kumar S, Rajaram S, Subramanian S. Screening of Potential Breast Cancer Inhibitors through Molecular Docking and Molecular Dynamics Simulation. BioMed Research International. 2022 Jun 28; 2022 (IF=3.2).

Varshini GS, Harshini S, Siham MA, Tejaswini GK, Kumar YS, Kulanthaivel L, Gowtham Kumar S. Investigation of FOXP3 (rs3761548) polymorphism with the risk of preeclampsia and recurrent spontaneous abortion: A systemic review and meta- analysis. Asian Pacific Journal of Reproduction. 2022 May 1; 11(3):117 (IF=1.479).

Nirusimhan V, Gideon DA, Parashar A, Jeyachandran S, Jeyaraman J, Gowtham Kumar S, Kulanthaivel L. Structural Modeling of Drosophila melanogaster Gut Cytochrome P450s and Docking Comparison of Fruit Fly Gut and Human Cytochrome P450s. Current Drug Metabolism, 2022 (IF=3.4).

Santhosh Kumar Y, Kulanthaivel L, Hikku GS, Saravanan R, Lakshmi T, Kirubhanand C, Karthikeyan M, Vijayalakshmi P, Gowtham Kumar S. Improved Antibacterial Activity of Water-Soluble Nanoformulated Kaempferol and Combretastatin Polyphenolic Compounds. International Journal of Polymer Science. 2021; Oct 27; 2021 (IF=3.3).

Sangavi P., Rajapriya R., Sannathul Firthous, Langeswaran K. and Gowtham Kumar S. Identification of bioactive compounds and potential inhibitors for Breast cancer from Musa sapientum peel – An in vitro and in silico approach. June 2021 Research Journal of Biotechnology 16(7):180-196 June 2021 16(7):180-196. DOI:10.25303/167rjbt18021.

Gowtham Kumar S, Kumar YS, Kulanthaivel L. Antiangiogenic role of natural flavonoids and their molecular mechanism: an update. The Egyptian Journal of Internal Medicine. 2021; 33(1):1-0.

Kumar YS, Varghese S, Kulanthaivel L, Gowtham Kumar S. Association of VEGF polymorphisms and breast cancer susceptibility: Systemic review and meta-analysis. Meta Gene, 2021 Jul 7:100946 (IF=0.536).

Varghese S, Gowtham Kumar S. Association between PTX3 and PVT1 genetic polymorphisms and the risk of diabetic kidney disease in type 2 diabetic patients. The Egyptian Journal of Internal Medicine. 2021; 33(1):1-12.

Arthiya M, Bhavani S, Jenisha J, Sharmila D, Varghese S, Kulanthaivel L, Gowtham Kumar S. LDLR, MTHFR and KLOTHO gene polymorphisms as an early predictor in the risk of coronary artery disease: A Meta-analysis. Gene Reports. 2021 Apr 1:101120 (IF=1.5).

Divya M, Gayathri N, Shakthisree N, Benita SS, Varghese S, Gowtham Kumar S. Association of interleukin1 $\beta$ , interleukin1 receptor antagonist, interleukin 6 and angiotensin II receptor type I gene polymorphisms with end stage renal disease: A meta- analysis. *Gene Reports*, 2020 Aug 26:100856 (IF=1.5).

Goussalyaa, M.S.Jancya. Anolin Jemi, R.Soundarya, SindhuVarghese, Amrita Priscilla Nalini, Gowtham Kumar S. Association of Interleukin 6 and insulin resistance gene polymorphism with polycystic ovarian syndrome: A meta- analysis. *Meta Gene*, June 2020, 100675 (IF=0.536).

Akilpprienka B, Malarkodi M, Vivedharani R, Varghese S, Anitha V, Rajamanickam K, Gowtham Kumar S. Studies on the Association of DEFB1 Gene Polymorphism (rs11362 and rs1799946) and Dental Caries in South Indian Population. *J Datta Meghe Inst Med Sci Univ* 2019; 14:237-40.

Sindhu Varghese, Gowtham Kumar S. Prevalence of micro albuminuria and diagnostic accuracy of urine dipstick for the screening of diabetic nephropathy in type 2 diabetes patients. *Biocatalysis and Agricultural Biotechnology*, 21 (2019) 101316 (IF=4).

Sindhu Varghese, Gowtham Kumar S. Association between genetic variants of NOS3, TGF- $\beta$  and susceptibility of diabetic nephropathy: A meta- analysis. *Meta Gene* 21:100573, April 2019.DOI: 10.1016/j.mgene.2019.10057 (IF=0.536).

L Kulanthaivel, J Jeyaraman, A Biswas, Gowtham Kumar S, S Santhoshkumar Identification of potential inhibitors for Penicillin binding protein (PBP) from *Staphylococcus aureus.*, *Bioinformation* 14 (9), 471-476,2018 (IF=1.9).

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

Perumal S, Babu LH, Langeswaran K, Gowtham Kumar S, Balasubramanian MP. Pharmacological potential of natural flavonoid diosmin against n-nitrosodiethylamine induced hepatocellular carcinogenesis in wistar albino rats. *Int J Res Biosci*. 2015; 4:25- 36.

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