

Dr. SUGAPRIYA DHANASEKARAN



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Ph.D. IN MICROBIOLOGY (PATHOLOGY) ASSOCIATE PROFESSOR IN MEDICAL LAB SCIENCES

PROFILE & VALUE

- Doctorate in Microbiology (Molecular and Cellular Biology), with 10 years of experience in research and teaching to undergraduates; served as an Associate Professor – Medical Lab Science at Prince Sattam bin Abdulaziz University.
- Ability to develop instructional and study plans for the course taught and ensure that it meets University standards.
- Able to handle various academic affairs, exercise administrative responsibility in academic matters including development of the curriculum, quality management, preparing strategic plan scheduling of examinations, implementing academic rules, providing academic advice to students, and supporting faculty research.
- Possess excellent academic background, commitment to quality teaching, and potential for carrying out outstanding research.

QUALIFICATION & EXPERTISE

Student Management
 Lesson Planning
 Curriculum Development
 Articulate Communicator
 Documentation
 Research Skills
 Research Guidance
 Practical Placement
 Interpersonal Abilities
 Superior Organizational Skills
 Passionate Teacher
 Strategy and quality management

EDUCATION AND CREDENTIAL

Doctoral	University of Madras, Chennai (2008) <ul style="list-style-type: none"> • Doctorate of Philosophy (Ph.D.) in Microbiology (Pathology). • <i>Thesis Title:</i> Biochemical, cellular and molecular studies on the pharmacological effects of <i>Semecarpus anacardium</i> Linn on <i>Bcr-Abt⁺</i> experimental leukemic model with special reference to apoptosis.
Master of Philosophy	Bharathidasan University, Tiruchirapalli (2002) <ul style="list-style-type: none"> • Master of Philosophy (M.Phil) in Microbiology. • <i>Dissertation Title:</i> Perturbation and Dysfunction of Intracellular Ca²⁺ Homeostasis in Mitochondria by Novel Amyloid Forming Model Peptide Poly (Leucine-Glutamic Acid).
Masters	Madurai Kamarajar University, Madurai (2000) <ul style="list-style-type: none"> • Master of Science (M.Sc) in Microbiology. • <i>Dissertation Title:</i> Production of Streptomycin and compare the individual and combined effect with penicillin for various organisms.
Bachelors	University of Madras, Rasipuram (1998) <ul style="list-style-type: none"> • Bachelor of Science (B.Sc) in Microbiology.

- *Dissertation Title:* Effect of antimicrobial activity on *Coleus aromaticus* against gram-negative organisms.

Certifications: Bioinformatics, Madras Institute Technology, Chennai, 2005.

EXPERIENCE

Teaching and Research Experience After Ph.D : 11 Years

- Sep 2014-Aug 2021: Associate Professor:** Department of Medical Lab Sciences, College of Applied Medical Sciences, Prince Sattam bin Abdulaziz University, Saudi Arabia.
- Feb 2013-Aug 2014: Women Scientist,** (Department of Science and Technology), Department of Biotechnology, Indian Institute of Technology Madras, Chennai. India.
- Feb 2010-Aug 2013: Women Scientist,** (Department of Science and Technology), Department of Biotechnology, Indian Institute of Technology Madras, Chennai. India.
- Apr 2008-Feb 2010: Research Associate,** Department of Biotechnology, Indian Institute of Technology Madras, Chennai. India.
- Jun 2003-Apr 2004: Lecturer** in P-G Department of Biotechnology, KRMMC College, Chennai, India.
- June 2000-Apr 2001: Lecturer** in U-G department of Microbiology, Bharathi Arts and Science College, India.

Personal Profile

- Date of Birth: 03.09.1977
- Age: 42 years
- Gender: Female
- Nationality: Indian
- Marital Status: Married
- Passport No: **V2180196**

Skills

TECHNOLOGY EXPERIENCE AND SPECIALIZED SKILLS

- **Molecular Techniques:** Plasmid and genomic DNA isolation, Isolation and purification of proteins, PCR, RT-PCR, Real-Time PCR, Gene cloning and screening of recombinant clones, Southern hybridization, Electroporation, Transfection, Western Blotting, Electrophoresis – PAGE and Agarose. Primer designing for the development of multiplex PCR and Real-Time PCR.
- **Tissue Culture Techniques:** Isolation, culturing, maintenance of Mesenchymal stem cell and Hematopoietic stem cell from Bone marrow (Human & Mouse) and UCB, Culturing of stem cells in microgravity, Tissue culture and maintenance of cell lines, Cell freezing and cell revival, Primary cell culture, Cytotoxicity assays, Isolation & maintenance of Stem cells (Adult), Development of cell lines; Transfection/Electroporation. Clonogenic assay,
- **Microscopy:** Basic, Fluorescent and Confocal microscopy.
- **Immunocytochemistry:** Staining/labeling including FACS data analysis and interpretation; Immunohistochemistry. Immunocytochemistry analysis.
- **Microbiological techniques:** Preparation of bacteriological and fungal culture media and stains, Isolation, and identification of the pathogens from clinical specimens, Experience in antimicrobial resistance studies, Carryout diagnostic assays using molecular techniques. Transformation, Characterization & Stock maintenance.
- **Cytochemistry, Histopathology:** Special staining for Leukemia, Immuno-cytochemistry, Immuno-histochemistry, *In-situ* Hybridization,

- **Handling of Animals:** Disease model, Handling of Experimental animals like rat, mouse, rabbit and guinea pigs.
- **Technical Knowledge:** DNA sequencing, RFLP, Polyclonal Antibody production.

COURSES HANDLED/TAUGHT

Subject Skills

- Handle subjects for both undergraduate and postgraduate level students.
- Experience in teaching Biotechnology, Microbiology, and Medical Lab Technician students.
- Proficient in both theory and practical courses.
- **Bachelors:** Gene Technology, Molecular Biology, Medical Genetics, General Microbiology, Introduction to Pathology, Clinical Haematology I, Clinical Haematology II, Cytopathology, Clinical Microbiological Practice and Immunology, Lab Management & Quality safety, Medical Microbiology, Clinical practice Microbiology, Immunohaematology, Blood Bank, Clinical Practice Haematology, Environmental Microbiology and Immunology.
- **Masters:** Medical Genetics, Molecular Biology, Biotechnology, Animal Biotechnology, Microbial Genetics, General microbiology, Virology, Practical for molecular biology, In vitro Cell culture, Gene Technology and Molecular Techniques, Practical for Animal Biotechnology, Lab Animal Care, Research Methodology, Medical microbiology, Bacteriology and Practical for Bacteriology.
- **Guidance:** Provided guidance to 6 students in completing their Master's Thesis in the field of Medical Microbiology, Stem Cell Biology, and Cancer Biology. Guidance of 15 students in completing their graduation projects in the field of Medical and Applied Microbiology.
- Supervision of students in the hospital clinical rotations and Internships.
- Guiding Student's graduation projects.

Executive Skills:

- Proficient computer and statistical applications
- Eminent in modern teaching strategies
- Skilled in using SMART Board, and teaching technologies like Blackboard.
- Experienced in peer-reviewed manuscript writing and publishing.
- Ability to critically evaluate scientific literature.
- Experience in supervising and guiding students' projects.
- Proficiency in timetable formation and syllabus framing.
- Ability in Research grants writing.
- Experience in Quality works
- Worked as a member of the Exam control committee.

Appealing Skills

- Planning and organization
- Leadership
- Initiative and Problem solving
- Interpersonal communication
- Empathetic listener and persuasive speaker
- Enjoy working as a team member as well as independently and
- Trustworthy

Area of Interests

- Research in Stem Cells and cancer biology
- Nanotechnology – Drug Discovery
- Pathology and disease condition
- Bioinformatics
- Hematology
- General Knowledge and Aptitude tests

Learning/Teaching Methodologies

- Lecture-based learning
- Technology-based learning
- Group learning
- Individual learning
- Inquiry-based learning
- Expeditionary learning

Administrative Highlights

- Coordinator of the Department of Quality.
- Coordinator of the Department Annual Program Committee.
- Coordinator of the Department Statistic Committee.
- Member of College Strategy Committee.
- Member of Study Plan Committee.
- Graduation Student's Project Evaluator /Examiner.
- Effectively Working as Academic Advisor and Student Counselor.
- Member of Student Administration and Supporting Services
- Experience in Organizing Academic Workshops and Conferences.
- Active Participation in Department and University Level Programs.

Highlights

- Delivering lectures in line with University-approved course descriptions, course outlines, syllabi, and procedures.
- Assisted, as appropriate, in the maintenance of Molecular biology, Stem cell biology, Cell cultures Microbiological, and Cancer biology instructional materials and laboratory facilities.
- Maintaining an understanding of the latest developments in Cancer Biology, Molecular Techniques, Microbiology, Stem cell and leveraging a range of established and innovative research and teaching/assessment methods as appropriate.
- Manage the development and clarification of academic standards and quality for the subject area within the syllabi and updated scientific research.
- Provide a significant contribution to the development of educational policies within the University.
- Effectively guided students in assisting with Master's and Graduation Projects.

Academic Achievements (Awards/Honors)

- **University Research Excellence Awards 30,000SAR** from Prince Sattam bin Abdulaziz University, KSA (2021).
- The honorarium of USD 200 for **Studies of Natural Product Chemistry** from **Elsevier Publishers** (2020).
- **University Research Excellence Awards 5,000SAR** from Prince Sattam bin Abdulaziz University, KSA (2020).
- **University Research Excellence Awards 27,500SAR** from Prince Sattam bin Abdulaziz University, KSA (2019).
- The honorarium of USD 200 for **Studies of Natural Product Chemistry** from **Elsevier Publishers** (2018).
- **ISSCR Travel Award** by ISSCR Committee (USD \$1250 and \$600 for Registration Fee) (2012).
- **DST-Travel Award** awarded by Department of Science and Technology, Govt. of India, India (2012).
- **Indian National Science Academy (INSA) Award** by INSA Academy Govt. of India, India (2012).
- **Centre for International Co-operation in Science (CICS) Award** by Govt. of India, India (2012).

- **Paper Presentation Award (Third prize)** in International Conference on Stem Cells and Cancer (ICSCC-2010) conference (2010).
- **University Research Fellow Award** from April 2006-April 2008.
- **Department Project Associate Award** from April 2004 to March 2006.
- **Young Scientist Award** by Society for Free Radical Research International in 2005.
- **Gold Medalist in postgraduate** in 2000 and Rs.3000/- Cash award by the College.

Journal Editorship/Editorial Members/Organizing Committee/Membership

- **Reviewer Board member** in Qatar Foundation.
- **Reviewer Board member** in KAUST.
- **Organizing Member** in International Conference of Medicinal Chemistry and Computer-Aided Drug Design.
- **Member** in International Society for Stem Cell Research (ISSCR).
- **Editorial Team Member** of European Journal of Preventive Medicine.
- **Editorial Team Member** of Global Journal of Vaccine and Immunology.
- **Editorial Team Member** of Virology & Immunology Journal.
- **Editorial Team Member** of International Journal of Immunotherapy and Cancer Research.
- **Editorial Team Member** of International Journal of Herbo Medica.
- **SFRR (Society for Free Radical Research - Asia) Membership**
- **Loop Frontier**

Journal Reviewer

- Biology
- Pharmaceuticals
- Molecules
- Critical Reviews in Food Science and Nutrition
- BMC Cancer
- Oncotarget
- Expert Opinion on Drug Delivery
- Annals of Nutrition and Metabolism
- JRSM Cardiovascular Disease
- Lipids
- Cancer Cell International
- Natural Products and Bioprospecting
- Journal of Immunological Science
- Journal of Genetic Mutation Disorders
- International Journal of Immunotherapy and Cancer Research

Research Publication

- Sabya Sachi Da, Sandeep Kumar Singh, P.R.P.Verma, Rekha Gahtori, Belay Zeleke Sibuh, KavindraKumar Kesari, Niraj Kumar Jha, **Sugapriya Dhanasekaran**, Vijay Kumar Thakur, Wong Ling Shing, Sinouvassane Djearamane, Piyush Kumar Gupta. Polyester nanomedicines targeting inflammatory signaling pathways for cancer therapy. **Biomedicine & Pharmacotherapy** (2022) (Accepted) **Impact Factor 7.4. Impact Factor 7.4. Volume 154, October 2022, 113654**
<https://doi.org/10.1016/j.biopha.2022.113654>

- Sankareswaran, M., Periakaruppan, R., Sasivarnam, M. **Sugapriya Dhanasekaran**, Mosleh Mohammad Abomughaid Bio-fabrication of Bio-inspired Silica Nanomaterials from *Bryophyllum pinnatum* Leaf for Agricultural **Applications of Applied Biochemistry Biotechnology** (2022). <https://doi.org/10.1007/s12010-022-03996-4> **Impact Factor 3.9.**
- P. Rajiv, Ramalingam Manikandan, S. Sangeetha, P. Vanathi, **Sugapriya Dhanasekaran**, Fabrication of biogenic iron oxide and their efficiency to detect carbofuran in vegetable samples, **Inorganic Chemistry Communications**, Volume 142, 2022, 109649, ISSN 1387-7003, <https://doi.org/10.1016/j.inoche.2022.109649> **Impact Factor 3.42.**
- Priya, K., Rathinasabapathi, P., Arunraj, R. **Dhanasekaran Sugapriya**, Mohandass Ramya. Development of multiplex HRM-based loop-mediated isothermal amplification method for specific and sensitive detection of *Treponema pallidum*. **Archives of Microbiology**. Volume 204, 355 (2022). <https://doi.org/10.1007/s00203-022-02973-z> **Impact Factor 2.552**
- Niraj Kumar Jha, Saniya Arfin, Saurabh Kumar Jha, Rohan Kar, Abhijit Dey, Ankur Sharma, Shalini Mani, Rohit Gundamaraju, Ghulam Md. Ashraf, Piyush Kumar Gupta, **Sugapriya Dhanasekaran**, Mosleh Mohammad Abomughaid, Sabya Sachi Das, Ashish Garg, Hari Prasad Devkota, Keshav Raj Paudel, Philip M Hansbro, Sachin Kumar Singh, Kamal Dua, Qazi Mohammad Sajid Jamal, Shubhadeep Roychoudhury, Dhruv Kumar, Mohammad Amjad Kamal, Janne Ruokolainen, Shreesh Ojha, Re-establishing the comprehension of phytomedicine and nanomedicine in inflammatory mediated cancer signaling. **Seminars in Cancer Biology**. (In Press) <https://doi.org/10.1016/j.semcancer.2022.02.022> **Impact Factor 17.707.**
- Krishnan S, Ashwin KN, Durgaprasad G, **Sugapriya Dhanasekaran**, Niraj Kumar J, Kamal Dua, Vijay Kumar T, Piyush KG. Aptameric Nanobiosensors for the Diagnosis of COVID-19: An Update. *Materials Letters* (2021): 131237. <https://doi.org/10.1016/j.matlet.2021.131237> **Impact Factor 3.86**
- Piyush KG, Mrunmayee S, Rekha G, Nidhi N, Surya K, Jatin K, Sanjay K, Saad HA, **Sugapriya Dhanasekaran**, Mosleh MA, Kamal D, Rohit G, Shreesh O, Janne R, Niraj KJ, Kavindra KK. Phytomedicines Targeting Cancer Stem Cells: Therapeutic Opportunities and Prospects for Pharmaceutical Development. **Pharmaceuticals**. 2021, 14(7), 676 <https://doi.org/10.3390/ph14070676> **Impact Factor 5.86**
- Rekha G, Mosleh MA, Nidhi N, Saravanan K, **Sugapriya Dhanasekaran**, Soumya P, Kanu P, Dillip KB, Ram P, Piyush K. Delineating the role of phytocompounds against anti-bacterial drug resistance—An update. **Biocell**. 2021, <https://doi.org/10.32604/biocell.2021.016484> **Impact Factor 1.25**
- M. Subbulakshmi, **Sugapriya Dhanasekaran***, S. Abirami, R. Palaniappan, M. Kannan, Divya Venugopal. Phylogenetic Analysis and Protective Effects of Thymol and its Chromatographic Fractions from a Novel Wild Mushroom in Combating Oxidative Stress. **Food Science and Human Wellness**. Volume 10, Issue 4, July 2021, Pages 452-459. <https://doi.org/10.1016/j.fshw.2021.04.007> **Impact Factor 8.08**
- Chandrasekaran R, Yadav SA, Periakaruppan R, Prabukumar S, Abomughaid MM, Al-Dayn N, Al-Digi Y, **Dhanasekaran S***. Augmented Cell Signaling by Betanin insights Cancer Cell Remodeling: A Molecular Docking and Experimental Approach. **Biointerface Research in Applied Chemistry**. 2022, Volume 12, Issue 3, 161–172. <https://biointerfaceresearch.com/wp-content/uploads/2021/08/20695837123.31613172.pdf> **Impact Factor 1.16**
- Abirami Sasi, Rajamangalam@Vijayalakshmi M, Mini Varsini A, Kannan Marikani, Noura Al-Dayn, **Sugapriya Dhanasekaran***, Kavitha Govarthan. Optimization of xanthan gum production and ethanolic extract of *Psidium guajava* application in dentistry. **International Journal of Pharmaceutical Research**. Apr - Jun 2021, Vol 13, Issue 2, Pages 3597-3607. <http://www.ijpronline.com/ViewArticleDetail.aspx?ID=21215> **Impact Factor 0.85.**
- Abirami S, Edwin Raj B Soundarya T. Kannan M, **Sugapriya Dhanasekaran***, Noura Al-Dayn, Arif Ahmed Mohammed. Exploring Antifungal Activities of Acetone extract of Selected Indian Medicinal Plants against Human Dermal Fungal

Pathogens. **Saudi Journal of Biological Sciences**, (2021) Volume 28, Issue 4 pp 2180-2187.
<https://doi.org/10.1016/j.sjbs.2021.01.046> Impact Factor 4.13

- Noura Al-Dayam, Divya Venugopal, **Sugapriya Dhanasekaran***. Footprint of COVID-19 pandemic in India: A study of Immune Landscape and Factors Shielding Mortality **Analytical Cellular Pathology**, (2020) Volume 2020, Article ID 6692739. <https://doi.org/10.1155/2020/6692739> Impact Factor 4.11
- Abirami Sasi, Nagarajan D, Kannan M, **Sugapriya Dhanasekaran*** Noura Al-Dayam, Divya Venugopal. Identification and characterization of a Newly Isolated Chitinase Producing strain *Bacillus licheniformis* SSCL-10 for chitin degradation. **Archaea-an International Microbiological Journal**. Volume 2020, Article ID 8844811. <https://doi.org/10.1155/2020/8844811> Impact Factor 3.379
- **Sugapriya Dhanasekaran*** Divya Venugopal, Noura Al-Dayam, Vijaya Ravinayagam, Arif Ahmed Mohammed. Emerging Insights into Mitochondria-Specific Targeting and Drug Delivering Strategies: A Recent Milestones and Therapeutic Implications. **Saudi Journal of Biological Sciences**, (2020) Volume 27, Issue 12 pp 3581-3592. <https://doi.org/10.1016/j.sjbs.2020.07.030> Impact Factor 4.13
- Kannan Marikani, Abirami Sasi, Venkatesan Srinivasan, **Sugapriya Dhanasekaran***, Noura-Al Dayam, Divya Venugopal. A Synergism of Eco-Friendly Dyeing of Cotton Fabric and Therapeutic benefits of Seed Extract. **International Journal of Life Science and Pharma Research**, (2020) Volume 10, Issue 5, Pages:207-214. <https://www.ijlpr.com/abstract1.php?aid=725> Impact Factor 0.82
- **Sugapriya Dhanasekaran*** Devilakshmi S and Rama S Verma. Foxa-2 Effectively Differentiate Mesenchymal Stem Cells into Functional Hepatocytes. **Indian Journal of Experimental Biology**, (2021) Vol 59, No 06 369-380. <http://op.niscair.res.in/index.php/IJEB/article/view/51862> Impact Factor 1.38
- Divya Venugopal and **Sugapriya Dhanasekaran*** Chapter 7: Bitter Gourd (*Momordica charantia*) as an Emerging Therapeutic Agent: Modulating Metabolic Regulation and Cell Signaling Cascade. In **Studies in Natural Product Chemistry (2020)** Book Series ISSN: 1572-5995; Elsevier publications, Amsterdam, Netherlands. Volume 67, 2020, pp 221-268. <https://doi.org/10.1016/B978-0-12-819483-6.00007-2> Impact Factor 1.87
- Xingping Wu, **Sugapriya Dhanasekaran*** Protective effect of *Abutilon indicum* Extract on DNA Damage and Peripheral Blood Lymphocytes in Combating the Oxidative Stress. **Saudi Pharmaceutical Journal**, (2020) Volume 28, 943-950. <https://doi.org/10.1016/j.jsps.2020.06.015> Impact Factor 4.21
- **Sugapriya Dhanasekaran*** Phytochemical Characteristics Aerial Parts of *Cissus quadrangularis* (L). and its in-vitro Inhibitory Activity against Leukemic Cells and Antioxidant Properties. **Saudi Journal of Biological Sciences**, (2020) Volume 27, Issue 5 pp 1302-1309. <https://doi.org/10.1016/j.sjbs.2020.01.005> Impact Factor 4.13
- A.B. Sangeetha, A. Abdel-hadi, A. Hassan, C.S. Shobana, S. Suresh, B. Abirami, K.P. Selvam, R.S. Al-Baradie, S. Banawas, M. Alaidarous, B. Alshehri, A.A. Dukhyil, **Sugapriya Dhanasekaran**, P. Manikandan. Evaluation of in vitro activities of extracellular enzymes from *Aspergillus* species isolated from corneal ulcer/keratitis. **Saudi Journal of Biological Sciences**, (2020) Volume 27, Issue 2, pp 701-705. <https://doi.org/10.1016/j.sjbs.2019.11.023> Impact Factor 4.13
- Vinoy Jacob, P. Rajiv, **Sugapriya Dhanasekaran**. Antioxidant and Anticancerous Activities of Biologically Synthesized Zinc Oxide Nanoparticles (ZnO NPs) from the Rhizomes of *Curcuma longa*. **International Journal of Pharmaceutical Research**. Volume 1-6: Supplementary Issue 1, 2020, 2304-2013. <https://plu.mx/plum/a/?doi=10.31838/ijpr/2020.SP1.283> Impact Factor 0.32

- Momanyi Kerubo Rachael, Rajiv P, **Sugapriya Dhanasekaran** . Screening for Phytochemicals and Antimicrobial Activity of Aqueous extract of *Tridax procumbens*. **International Journal of Research in Pharmaceutical Sciences**. Volume 11 (4): 2020, 5787-5790. <https://doi.org/10.26452/ijrps.v11i4.3226> Impact Factor 0.78
- **Sugapriya Dhanasekaran*** Alteration of Multi-Drug Resistance Activities by Ethanolic Extracts of *Nigella Sativa* against Urinary Pathogens. **International Journal of Pharmacology**, (2019) Volume: 15 Issue: 8 pp 962-969. <https://doi.org/10.3923/ijp.2019.962.969> Impact Factor 0.87
- **Sugapriya Dhanasekaran*** Augmented Cytotoxic Effects of Paclitaxel by Curcumin Induced Overexpression Folate Receptor- α for Enhanced Targeted Drug Delivery in HeLa cells. **Phytomedicine**, (2019). Volume 56, pp 279-285. <https://doi.org/10.1016/j.phymed.2018.06.019> Impact Factor 6.6
- **Sugapriya Dhanasekaran*** and Ravindran Jaganathan. Augmented Cell Signaling by Natural Polyphenols and Flavonoids Insights into Cancer Cell Remodeling and Prevention. **Studies on Natural Product Chemistry** (2018) Volume 58, pp 213-244. <https://doi.org/10.1016/B978-0-444-64056-7.00007-6> Impact Factor 1.87
- **Sugapriya Dhanasekaran*** Relationships between Alteration in Leptin and Glucose Homeostasis. **Virology & Immunology Journal**. 2018, 2 (3), 000150 1-3. <https://medwinpublishers.com/VIJ/VIJ16000150.pdf>
- Ravindran Jaganathan, Rajeswari R and **Sugapriya D*** Emerging Role of Adipocytokines in Diabetes as mediators of insulin resistance and Cardiovascular disease. **Canadian Journal of Diabetes** (2017) 1–12 Dec 8. pii: S1499-2671(17)30334-9. <https://doi.org/10.1016/j.cjcd.2017.10.040> Impact Factor 4.19
- **Sugapriya Dhanasekaran***. Smart Drug Targeted Drug Delivery. J of Medicinal Chemistry. Conference proceedings.
- **Sugapriya Dhanasekaran*** Smart regulation therapies challenges and opportunities: In future pharma industries. **J Pharmacovigil** 2016, 4:4 (Suppl).
- Shanthi Palanivelu, **Sugapriya Dhanasekaran**, Haseena Banu Hedayathullah Khan, and Sachdanandam Tiruvaiyaru Panchanadham. Ameliorating Effect of Kalpaamruthaa on Altered Energy Metabolism in BCR-ABL+ Cell Line Induced Leukemic Mouse Model. **Chinese Journal of Integrative Medicine**, <https://link.springer.com/article/10.1007/s11655-015-2283-2> Impact Factor 1.9
- **Sugapriya Dhanasekaran**, Devilakshmi Sithambaram, Kavitha Govarthananan, Bijesh Biswal, and Rama Verma. An Efficient Protocol for Deriving Liver Stem Cells from Neonatal Mice: Validating Its Differentiation Potential. **Analytical and Cellular Pathology**, Volume 2015 (2015), Article ID 219206, 10 pages, <http://dx.doi.org/10.1155/2015/219206> Impact Factor 2.05
- **Dhanasekaran S*** SMART Drug Based Targeted Delivery: A New Paradigm for Nanomedicine Strategies. **International Journal of Immunotherapy and Cancer Research** 1(1): 008-012, 2015. <https://www.peertechz.com/Immunotherapy-Cancer-Research/IJICR-1-103.php>
- Shanthi Palanivelu, **Sugapriya Dhanasekaran**, Haseena Banu Hedayathullah Khan, Sachdanandam Panchanadham. Antileukemic effect of Kalpaamruthaa, a modified Siddha preparation, in BCR–ABL+ cell line induced chronic myeloid leukemic mouse model. **Comparative Clinical Pathology** 23: 653-664, 2014. <https://link.springer.com/article/10.1007/s00580-012-1666-4> Impact Factor 0.97
- **Sugapriya D**, Bijesh K.Biswal, Venil.N.Sumantran, and Rama S Verma. Augmented Sensitivity to Methotrexate by Curcumin induced overexpression of Folate Receptor in KG-1 Cells. **Biochimie** 95: 1567-1573, 2013. <https://doi.org/10.1016/j.biochi.2013.04.004> Impact Factor 4.079

- **Sugapriya Dhanasekaran**, Ravindran Jaganathan, Sachdanandam Panchanadham, and Shanthi Palanivelu. Induction of Mitochondrial Mediated Apoptosis by *Semecarpus anacardium* in the BCR-ABL+ 12B1 Leukemia cell line – a possible mechanism of therapeutic action in vivo. **Journal of Experimental and Clinical Medicine**; 4(1):30-38 2012. <https://doi.org/10.1016/j.jecm.2011.11.005> Impact Factor 1.87
- **D. Sugapriya**, S.Preethi, P.Shanthi, N.Chandra, G.Jeyaraman, P.Sachdanandam, S.Thilagavathy, S.Venkatadesilalu. BCR-ABL translocation in pediatric acute lymphoblastic leukemia in Southern India. **Indian Journal of Hematology and Blood Transfusion**. Volume 28: 1, 37-41 2012. <https://doi.org/10.1007/s12288-11-0096-9> Impact Factor 1.615
- M. Himabindu, **D. Sugapriya Muthamilselvan**, Dilip Kumar Bishi and Rama S. Verma Molecular Analysis of Coagulase Gene Polymorphism in Clinical Isolates of Methicilin Resistant *Staphylococcus aureus* by Restriction Fragment Length Polymorphism Based Genotyping. **American Journal of Infectious Diseases** 5 (2): 170-176, 2009. <https://doi.org/10.3844/ajidsp.2009.163.169> Impact Factor 2.294
- **Sugapriya Dhanasekaran**, Shanthi Palanivelu, and Sachdanandam Panchanadham. Restorative effect of energy metabolism in leukemic mice treated by a Siddha drug - *Semecarpus anacardium* Linn. nut milk extract. **Chemico Biological Interaction** 173: 1,9, 43-58, 2008. <https://doi.org/10.1016/j.cbi.2008.01.013> Impact Factor 5.19
- Balamurugan.S, **Sugapriya. D**, Shanthi.P, Thilaka, Venkatadesikal.S, Pushpa.V, and Madhavan.M. Multidrug resistance 1 (mdr1) gene expression and Agnors in childhood acute leukemias. **Indian Journal of Hematology and Blood Transfusion**. 23: 3-4, 73-78, 2007. <https://link.springer.com/article/10.1007/s12288-008-0002-2> Impact Factor 1.615

* Corresponding Author

Book

Nano Metal Oxides in Horticulture and Agronomy, 1st Edition - January 20, 2023, (Edi). Li Xinghui, Rajiv Periakaruppan, Remya Mohanraj, Sugapriya Dhanasekaran. Paperback ISBN: 9780323918091

Book Chapters

- Divya Venugopal and **Sugapriya Dhanasekaran*** **Chapter 7:** Bitter Gourd (*Momordica charantia*) as an Emerging Therapeutic Agent: Modulating Metabolic Regulation and Cell Signaling Cascade. In **Studies in Natural Product Chemistry (2019)** Book Series ISSN: 1572-5995; Elsevier publications, Amsterdam, Netherlands. Volume 67, 2021, pp 221-268. <https://doi.org/10.1016/B978-0-12-819483-6.00007-2>
- Jana Shafi, Amtul Waheed, **Sugapriya Dhanasekaran***. **Chapter 11:** Emerging Trends in Social Networks and Health Awareness for Developing Countries. In **Transformative Power of Mobile Phones and Social Media Use in Developing Countries**. Published by Apple Academic Press (CRC Press- Taylor & Francis Group), (2019) pp 177-206.
- **Sugapriya Dhanasekaran*** and Ravindran Jaganathan. **Chapter 7:** Augmented Cell Signaling by Natural Polyphenols and Flavonoids Insights into Cancer Cell Remodeling and Prevention. In **Studies in Natural Product Chemistry (2018)**. Book Series ISSN: 1572-5995; Elsevier publications, Amsterdam, Netherlands. Volume 58, pp 213-244. <https://doi.org/10.1016/B978-0-444-64056-7.00007-6>
- **Sugapriya Dhanasekaran*** and Sumitra Chopra. (2016) Getting a Handle on Smart Drug Delivery Systems: A Comprehensive View of Therapeutic Targeting Strategies. In: Smart Drug Delivery System. First edition., Ali Demir Sezer (Ed). InTech Publication Group, ISBN 978-953-51-2247-0, InTech, <https://doi.org/10.5772/61388> pp 31 – 62.

- Rama S Verma, Abhilash, **Sugapriya M.D** and Chithra R. Animal Biotechnology: Applications and Potential Risks. In: Biotechnology in Functional Foods and Nutraceuticals. First edition. Ed Debasis Bagchi, Francis C. Lau, Dilip K. Ghosh. **CRC Press, Taylor & Francis Group**, (Boca Raton London NewYork) **pp 219-250**.

*** Corresponding Author**

Chair, Co-chair and Judge for the Conference

- **Co-chairing the session** in 5th International Conference on Medicinal Chemistry & Computer Aided Drug Designing and Drug Delivery. Phoenix, Arizona, USA on December 05 - 07, 2016 of Nursing in Chemistry | Nanomedicine & Fullerene Chemistry | Chem-Toxicology, Chem-Pharmacology, Chem-Microbiology, Chem-Genomics | Pharmaceutical Industry Overview.
- **Judge for the Posters Presentation** at the “5th International Conference on Medicinal Chemistry & Computer Aided Drug Designing and Drug Delivery” held during December 05-07, 2016 in Phoenix, USA.

Conference Publication and Presentations

- Waad, Reem Abdulaziz and **Sugapriya Dhanasekaran***, Antimicrobial Activity of Ethanolic Extract of Black cumin Seed (*Nigella Sativa*) against Various Clinical Isolates - An in vitro Analysis. 9th Annual Scientific Research Forum, Jan 16-17, 2018 King Saud Abdulaziz University, Wadi Al Dawaser, KSA.
- Reem Abdulaziz Alqannam and **Sugapriya Dhanasekaran***. Antibacterial and Alteration of Drug Resistance Activities of Black Cumin Seed (*Nigella Sativa*) Extract against Urinary Pathogen. **First Prize**, in 2nd scientific forum, held at 15.03.2018 in Prince Sattam bin Abdulaziz University under my supervision.
- Fathima Radi Abu Shaar and **Sugapriya Dhanasekaran***. A pattern of Nutritional Consumption, Behavior and Awareness among the University Students in Saudi Arabia. **Fourth Prize**, in 2nd scientific forum, held at 15.03.2018 in Prince Sattam bin Abdulaziz University under my supervision.
- Tahani M and **Sugapriya Dhanasekaran***. Isolation of Acinetobacter species from the Intensive Care Unit of General Hospital Special Reference to Antibiotic Resistance: A Pilot Study Analysis. 3rd Undergraduate Research Forum, February 20-21, 2017 Prince Sultan University, Riyadh, KSA.
- **Sugapriya Dhanasekaran** Smart Drug Targeted Drug Delivery. 5th International Conference on Medicinal Chemistry & Computer Aided Drug Designing and Drug Delivery. Phoenix, Arizona, USA on December 05 - 07, 2016. (J of Medicinal Chemistry - Conference proceedings).
- **Sugapriya Dhanasekaran*** Smart regulation therapies challenges and opportunities: In future pharma industries. J Pharmacovigil 2016, 4:4 (Suppl). Conference Series LLC Joint International Event on 7th Pharmacovigilance & Pharmaceutical Industry August 22-24, 2016 Vienna, Austria
- Nourah Abdullah, Sarah Nasser, Mohamudha Parveen and **Sugapriya Dhanasekaran***. The Spectrum of Dermatological Disorders and Associated Socio-Economic Factors among Primary School Children in Wadi Al Dawaser Region, Saudi Arabia. 2nd Undergraduate Research Forum, February 15-16, 2016 Prince Sultan University, Riyadh, KSA.
- **Sugapriya D**, P.Shanthi and P. Sachdanandam. Emerging insights into antioxidant-directed therapy by *Semecarpus anacardium* nut extract (SA) in *BCR-ABL⁺* cell line induced chronic myeloid leukemic mouse model. 34th Annual Conference of Indian Association of Biomedical Scientists will be held at Dr. ALM. PGIBMS, University of Madras, Tharamani Campus, Chennai - 600 113. **Oral presentation wins the First prize**.
- **Sugapriya D** and Rama S Verma. Induction of functional hepatocyte-like cells from mouse mesenchymal stem cells by FOXA-2 for liver development. International Society for Stem Cell Research (ISSCR), 10th Annual Meeting on June 13-16, 2012 held at Pacifico Yokohama, Japan. **Presentation wins Travel Grand Award USD \$1250 and Registration Fee (USD \$600)**. (Dept. of Science and Technology selected for a travel grant).

- **Sugapriya D**, Prassana V, Rajalakshmi S, Rama S Verma. Increased levels of folate receptor in KG-1 cells by curcumin augmented sensitivity to methotrexate. 3rd International Conference on Molecular Medicine on February 20-23, 2012 held at VIT, Vellore.
- **Sugapriya DM**, Sreejit P, and Rama S Verma. Development of a simplified protocol for isolating liver-derived hepatocyte stem cell from neonatal mice at International conference on Stem Cells and Cancer (ICSCC-2010): Proliferation, Differentiation, and Apoptosis on December 11-14, 2010 held at International Institute of Information Technology, Pune.
Poster presentation wins the Third prize
- **Sugapriya D Muthamilselvan**, P.Shanthi and P. Sachdanandam Mechanism of induction of apoptosis in 12B1 leukemic cells by Semecarpus anacardium Linn. nut milk extract at International Conference on Molecular Medicine on 18th – 20th January 2009, held at Indian Institute of Technology Madras, Chennai.
- P.Shanthi, **Sugapriya D Muthamilselvan** and P. Sachdanandam Recuperative efficacy of Kalpaamruthaa (KA), a Siddha preparation on altered antioxidant status in experimental leukemia at International Conference on Molecular Medicine on 18th – 20th January 2009, held at Indian Institute of Technology Madras, Chennai.
- M. Himabindu, **D. Sugapriya Muthamilselvan**, Dilip Kumar Bishi and Rama S. Verma Molecular Analysis of Coagulase Gene Polymorphism in Clinical Isolates of Methicillin Resistant Staphylococcus aureus by Restriction Fragment Length Polymorphism Based Genotyping at International Conference on Molecular Medicine on 18th – 20th January 2009, held at Indian Institute of Technology Madras, Chennai.
- Rama S Verma, Abhilasha, Chithra R and **Sugapriya D. M.** (2009) Innovation and Challenges in Biotechnology (ICICB-08) ISBN: 978-93-80043-16-6
- P.Shanthi, **D.Sugapriya**, S.Preethi, N.Chandra, G.Jeyaraman, P.Sachdanandam S.Thilagavathy, S.Venkatadesilalu BCR-ABL translocation in pediatric acute lymphoblastic leukemia. "APCON-2007" Annual IAPM Conference PGIMER, Chandigarh, November 26th-29th, 2007. Indian J Pathol Microbiol Vol 50, Suppl. 2007 p 44.
- **D.Sugapriya**, P.Sachdanandam, and P.Shanthi. Therapeutic Efficacy of semecarpus anacardium Linn. Nut Milk Extract on Carbohydrate Metabolizing Enzymes in Chronic Myeloid Leukemic mice. Abstract book, P.12, ASPUM International Symposium on Science in New Millennium, 12th – 13th June 2006.
- **D.Sugapriya**, P.Sachdanandam, and P.Shanthi. Emerging role of Semecarpus anacardium Linn. nut extract on the inhibitory effect of oxidative damage induced by Fe²⁺, Cu²⁺, and H₂O₂ in peripheral blood mononuclear cells. P.13, International Conference on Ethnopharmacology and Alternative Medicine V annual Conference of the National Society of Ethnopharmacology 20th-22nd January 2006.
- **D.Sugapriya**, P.Sachdanandam, and P.Shanthi. Effect of Poly (Leucine – Glutamic acid) on oxidative stress-related toxicity in human lymphocytes. Abstract book, P.123, International Conference on antioxidants and free radicals in Health- Nutrition & radio-protectors" and V International Conference of the society for free radical Research in India(SFRR), 16th-18th January 2006. (Participate in Young Scientist Award)
- **D.Sugapriya**, P.Sachdanandam, and P.Shanthi. Effect of Gallium Nitrate on Tamoxifen treated breast cancer-related hypercalcemia with reference to calcium and magnesium in rats. Abstract book, P.129, International Conference on antioxidants and free radicals in Health- Nutrition & radio-protectors" and IV annual Conference of the society for free radical Research in India (SFRR), 10th-12th January 2005.

Funded and Other Ongoing Projects

- Phylogenetic Analysis and Protective Effects of Novel Wild Mushroom in Combating Oxidative Stress. Deanship of Scientific Research, PSAU, Saudi Arabia, 36000 SAR (2020-2021).
- Antifungal Activities of Acetone extract of Selected Indian Medicinal Plants against Human Dermal Fungal Pathogens, Deanship of Scientific Research, PSAU, Saudi Arabia, 32000 SAR (2019-2020).

- Identification and characterization of a Newly Isolated Chitinase Producing strain, Deanship of Scientific Research, PSAU, Saudi Arabia, 33000 SAR (2018-2019).
- Protective effect of *Abutilon indicum* Extract on DNA Damage and Peripheral Blood Lymphocytes, Deanship of Scientific Research, PSAU, Saudi Arabia, 35000 SAR (2017-2018).
- Augmented effect of *Cissus quadrangularis* (L). and its in-vitro Inhibitory Activity against Leukemic Cells, Deanship of Scientific Research, PSAU, Saudi Arabia, 34600 SAR (2016-2017).
- Effects of *Nigella Sativa* against microbial Pathogens, Deanship of Scientific Research, PSAU, Saudi Arabia, 16000 SAR (2015-2016).
- Folate receptors enhanced targeted drug delivery on cancer cells. Department of Science and Technology (DST) – India 33, 50, 000 INR (2013-2014).
- Induction of functional hepatocyte-like cells from mouse mesenchymal stem cells by FOXA-2 for liver development. Department of Science and Technology (DST) – India 33, 50, 000 INR (2010-2013).

Workshop/Symposium

Participated:

- **Invited Speaker:** Community Health Seminar presented on “**Overview of Molecular Biology of Cancer**” for Cancer day Program, Prince Sattam bin Abdulaziz University, Riyadh- **16/06/1441H**.
- Presented brochure “**Corona Virus Awareness Day**” for university faculties, Prince Sattam bin Abdulaziz University, Riyadh **10/06/1441H**.
- Participated on “**Emerging of Antimicrobial Resistant**” in Government General Hospital, Wadi Al Dawaser. **29.03.1441H**.
- **Invited Speaker:** Community Health Seminar invited speaker “**Emerging Strategies in Targeted Therapy of Cancer**” for CME Program, Prince Sattam bin Abdulaziz University, Riyadh- **04/03/1440H**.
- Presented brochure “**Corona Virus Awareness Day**” for university faculties, Prince Sattam bin Abdulaziz University, Riyadh **14/07/1440H**.
- Participated on “**The Third Second Scientific Day**” in Prince Sattam bin Abdulaziz University, Wadi Al Dawaser. **28.03.2019**.
- Presented brochure “**International Breast Cancer Awareness Day**” for Students and university faculties, Prince Sattam bin Abdulaziz University, Riyadh **18/04/1440H**.
- Participated Workshop on “**World Diabetes Day - Method and Sites of Insulin Injection for Daibetic Patients**” for students and visitors, Prince Sattam bin Abdulaziz University, Riyadh **01/04/2018**.
- Participated and supervised the students Scientific Projects on “**The Second Scientific Day**” in Prince Sattam bin Abdulaziz University, Wadi Al Dawaser. **26.03.2018**.
- Presented brochure “**International Day of Osteoporesis**” for students and visitors, Prince Sattam bin Abdulaziz University, Riyadh **24/01/1438**.
- Presented brochure “**International Breast Cancer Awareness Day**” for university faculties, Prince Sattam bin Abdulaziz University, Riyadh **05/12/2015**.
- Presented brochure “**World Diabetes Day**” for students and visitors, Prince Sattam bin Abdulaziz University, Riyadh **17/11/2015**.

- Participated Workshop on **“Health Awareness Community service”** in Centre point, Red Tag and City Max, Wadi Al Dawaser. **26.01.1438 to 28.01.1438H.**
- Participated Training on **“Community Health Training Program on Fid-Aid”** for university faculties, Prince Sattam bin Abdulaziz University, Riyadh **08/06/1439H.**

Attended:

- Workshop on **Securing Academic Standards Through Effective Reporting and Actions** for university faculties, Prince Sattam bin Abdulaziz University, Riyadh- **22/7/1438H to 23/7/1438H**
- Workshop on **Baking Soda: A new treatment for cancer?** for university faculties, Prince Sattam bin Abdulaziz University, Riyadh **27/6/1438H**
- Workshop on **“Teaching based on Cholate”** for university faculties, Prince Sattam bin Abdulaziz University, Riyadh **24/06/1438H**
- Workshop on **Big data analytics in health new career**, for university faculties, Prince Sattam bin Abdulaziz University, Riyadh **11/05/1438H**
- Workshop on **CRISPR- From Bench to besides**, for university faculties, Prince Sattam bin Abdulaziz University, Riyadh **01/04/1438H**
- Workshop on **Miracle Cells- Promising Future for Treating Blindness**, for university faculties, Prince Sattam bin Abdulaziz University, Riyadh **03/02/1438H**
- Workshop on **Time management**, for university faculties, Prince Sattam bin Abdulaziz University, Riyadh **01/02/1438H-02/02/1438.**
- Workshop on **Active Learning**, for university faculties, Prince Sattam bin Abdulaziz University, Riyadh **26/01/1438H**
- Community Health Seminar: **“Brucellosis and its Risks in Wadi Al Dawaser Region”** College of Applied Medical Sciences, Wadi Al Dawaser- **29th Mar 2016.**
- Community Health Seminar: **“Is ZIKA a new threat to Humans?”**, College of Applied Medical Sciences, Wadi Al Dawaser- **31st Mar 2016.**
- Workshop: **“Successful research proposal writing”**, for university faculties, Prince Sattam bin Abdulaziz University, Riyadh- **20th Feb 2016.**
- Workshop on **Lanosterol Reverses Protein Aggregation in Cataracts**, for university faculties, Prince Sattam bin Abdulaziz University, Riyadh **28/11/1437H.**
- E-training workshop on **“Clinical key Nursing & Clinical Skills Mosby’s”**, **Saudi Digital Library (SDL)**, **03/11/ 2015**, Riyadh, KSA.
- E-training workshop on **“British Medical Journal (BMJ)”**, **17/10/2015** Saudi Digital Library (SDL), Riyadh, KSA.
- Workshop on **“Assessment of Learning Outcomes”**, **25/09/2015** Al Kharj, KSA (2015).
- **“Animal Cell Culture”** on IIT Madras QIP Short Term Training Programme 2008-09 on 20-24th July 2009, held at Indian Institute of Technology Madras, Chennai.
- Indo-UK Workshop on **Designing of Doctoral Research for Ph.D. Scholars** held on 23rd March 2005 at Chennai, Tamil Nadu, India.
- International Seminar and workshop on **Immunotechnology and workshop on immunoenzyme labeling in tissue sections, ELISA, 2D & Pulse Field Gel Electrophoresis and Fermentor** held from 20th - 22nd October 2005 at Chennai, Tamil Nadu, India.
- IIIrd **Surgical Pathology Update** held on 1st February 2008 at Chennai, Tamil Nadu, India.

- **Certificate in Bioinformatics** – Anna University, MIT Campus, Chennai, India-2005.

Graduation, Postgraduation Projects Guided

- Antimicrobial Susceptibility Profile among Gram-Negative Pathogens Isolated from General Hospital in Wadi Al Dawaser. (Dec 2019).
- Traditional Dietary Herbs: A Cancer Therapeutic and Chemopreventive Perspectives (Dec 2018).
- Antibacterial and Alteration of Drug Resistance Activities of Black Cumin Seed (*Nigella Sativa*) Extract against Urinary Pathogen (May 2018)
- A pattern of Nutritional Consumption, Behavior and Awareness among the University Students in Saudi Arabia (May 2017).
- Isolation of Acinetobacter species from the Intensive Care Unit of General Hospital Special Reference to Antibiotic Resistance: A Pilot Study Analysis (Dec 2016).
- The spectrum of dermatological disorders and the associated socio-economic factors among school going children in Wadi Al Dawaser region, Saudi Arabia. (Dec 2015).
- Increased levels of folate receptor in KG-1 cells by curcumin augmented sensitivity to methotrexate (2012).
- Stem cell expression pattern and cell differentiation of Mesenchymal stem cell on Microgravity (2011).
- Molecular Analysis of Coagulase Gene Polymorphism in Clinical Isolates of Methicillin Resistant Staphylococcus aureus by Restriction Fragment Length Polymorphism Based Genotyping (March 2011).
- Prevalence and Molecular analysis on Cervical cancer in Indian Women (March 2010).

Research Interest

My research interest lies mainly in investigating novel molecules and alternative, safe and efficacious strategies for the treatment of cancer. Specifically, I have researched and published in the following areas:

- Studies on natural compounds for treatment of Cancer.
- Chemotherapy with targeted drug delivery through nano-conjugated vehicles.
- Receptor targeted drug delivery (Folate receptors) aimed at the efficient delivery of anti-cancer drugs. This strategy would potentially reduce the genotoxic effects associated with chemotherapy.
- Emerging role of FOXA-2 in hepatic differentiation from mesenchymal stem cells, to facilitate the development of hepatocytes for liver engineering and regenerative medicine.

Contact Details for Three References

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Declaration

I hereby declare that all the information above is true to the best of my knowledge and belief,



Dr. Sugapriya Dhanasekaran