

Dr. G. S. Selvam

PROFESSOR

Department of Biochemistry,
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Educational Qualifications : M.Sc., M.Phil., Ph.D

Professional Experience : **Teaching:** 29 Yrs; **Research:** 34 Yrs

FIELD OF SPECIALIZATION

- Medical Biochemistry

RESEARCH SPECIALIZATION

- Medical Biochemistry,
- Environmental Biochemistry,
- rDNA Technology

Research Supervision:

Program	Completed	Ongoing
Ph.D	15	07
M.Phil	02	

PROFESSIONAL EXPERIENCE

No	Institution	Position	From (date)	To (date)
1	Madurai Kamaraj University	Professor	27.02.2005	Till date
2	Madurai Kamaraj University	Reader	23.04.1999	26.02.2005
3	Cochin University of Science and Technology , Cochin, Kerala	Reader	22.02.1997	22.04.1999
4	Cochin University of Science and Technology, Cochin, Kerala	Lecturer	22.02.1989	21.02.1997

RESEARCH COLLABORATION (BOTH NATIONAL & INTERNATIONAL)

Name of the Collaborator	Institute	Collaboration Details	Collaboration Output (Papers/Patents/Research/Online)
Luciano Saso	Department of Physiology and Pharmacology "Vittorio Erspamer", Sapienza University, P.le Aldo Moro 5,00185, Rome, Italy	Research Collaboration	Cardiac and Renal protective and Anti diabetic activities of Phytochemical compounds
Eman Al-Sayed,	Department of Pharmacognosy, Faculty of Pharmacy, Ain-Shams University, 11566, Cairo, Egypt	Research Collaboration	Cardiac and Renal protective and Anti diabetic activities of Phytochemical compounds
Abdel Nasser B. Singab,	Department of Pharmacognosy, Faculty of Pharmacy, Ain-Shams University, 11566, Cairo, Egypt	Research Collaboration	Cardiac and Renal protective and Anti diabetic activities of Phytochemical compounds

COMPLETED RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant	Year
1	Molecular cloning and expression of oxalate decarboxylase	UGC, New Delhi	10.69	2009 - 2012
2	Development of Simple, Cost effective, Quantifiable bacterial biosensor for Cadmium using agarase as novel reporter gene	DBT, New Delhi	30.62	2012 - 2015
3	Identification of novel biomarker in cardiac arrhythmia induced rats and its significance on human serum sample	ICMR, New Delhi	27.00	2012-2015
4	Molecular Mechanism of oxidant scavenging and modulation of NRF2- ARE mediated gene expression through NO signaling by Bioactive compounds in cultured Cardiomyoblasts	CSIR, New Delhi	24.51	2012-2015
5	Group II Introns as Gene Delivery Vehicle for development of Novel Biological Containment Recombinant Probiotics (<i>Lactic Acid Bacteria</i>) to deliver therapeutically relevant protein in kidney stone forming rats	DBT, New Delhi	27.12	2012-2015

ON-GOING RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant	Year
1.	“Molecular identification of indigenous oxalate degrading probiotics(Lactic Acid bacteria) as a potential therapy for preventing kidney stone disease.”	DST-SERB	11	2016-2018
2.	“Immunotherapeutic potential of biologically contained food grade Lactobacillus plantarum WCFS1 displaying peanut allergen on allergy induced experimental mice”	DBT, New Delhi	44	2016-2019

HONORS/AWARDS/RECOGNITIONS

- DBT-overseas fellowship in the Department of Organismal Biology, Tulane University U.S.A
- DBT National Associateship, Madurai Kamaraj University
- Appreciation Award during 115th Birth Anniversary of Former Chief Minister Kamarajar during the Year 2017 at Madurai Kamaraj University, Madurai.

PUBLICATIONS

- Gomathi P, Iyer AC, Murugan PS, Sasikumar S, Nancy Bright A, Ganesan D, Nallaperumal S, Murugan M, Selvam GS (2018). Association of paraoxonase-1 gene polymorphisms with insulin resistance in South Indian population. *Gene*. 2018 Apr 15; 650: 55-59. doi: 10.1016/j.gene.2018.01.094. Epub Feb 2. ISSN: 0378-1119.
- Abhishek A, Tiwari V, Paul E, Ponnusamy S, Ganesan D, Prabhakaran R, Selvi MS, Selvam GS (2017). Oral administration of oxalate enriched spinach extract as an improved methodology for the induction of dietary hyperoxaluric nephrocalcinosis in experimental rats. *Toxicol Mech Meth*, DOI: 10.1080/15376516.2017.1388459.
- Albert Abhishek, Vidhi Tiwari, Eldho Paul, Ganesan Divya, Ayyavu Mahesh, Ritu Kujur, Ponnusamy Sasikumar, Shanmugam Kathiresan, Luciano Saso, Govindan Sadasivam Selvam (2017) Expression of heterologous oxalate decarboxylase in HEK293 cells confers protection against oxalate induced oxidative stress as a therapeutic approach for calcium oxalate stone disease. *Journal of Enzyme Inhibition and Medicinal Chemistry* 32 (1), 426-433.
- Abhishek A, Benita S, Kumari M, Ganesan D, Paul E, Sasikumar P, Mahesh A, Yuvaraj S, Ramprasath T, Selvam GS (2017). Molecular analysis of oxalate induced endoplasmic reticulum stress mediated apoptosis in the pathogenesis of kidney stone disease. *J Physiol Biochem*, 73:561-573.
- Divya Ganesan, Eman Al-Sayed , Abhishek Albert, Eldho Paul, Abdel Nasser B. Singab, Selvam Govindan Sadasivam & Luciano Saso (2017): Antioxidant activity of phenolic compounds from extracts of Eucalyptus globulus and Melaleuca stypelioides and their protective role on D-glucose-induced hyperglycemic stress and oxalate stress in NRK-49F cells, *Natural Product Research*, DOI: 10.1080/14786419.2017.1343324
- Baskaran N, Selvam GS, Yuvaraj S, Abhishek A. (2017) Parthenolide attenuates 7,12-dimethylbenz[a]anthracene induced hamster buccal pouch carcinogenesis. *Mol Cell Biochem*, DOI 10.1007/s11010-017-3151-5
- Ponnusamy Sasikumar, Eldho Paul, Sivasamy Gomathi, Albert Abhishek, Sundaresan Sasikumar, Govindan Sadasivam Selvam (2016) Mobile group II intron based gene targeting in *Lactobacillus plantarum* WCFS1. *Journal of Basic Microbiology* 56:1107-1116.
- Gomathi S, Sasikumar P , Anbazhagan K , Neha SA, Sasikumar S , Selvi M S, Selvam G S (2015) Oral

administration of indigenous oxalate degrading lactic acid bacteria and quercetin prevents calcium oxalate stone formation in rats fed with oxalate rich diet *Journal of Functional Foods* 17 : 43–54.

- M. S. Selvi, P. Chandra Sekar, S. Yuvaraj, Abhishek Albert, Eldho Paul S. Sasikumar and G. S. Selvam (2015) In silico analysis of arsenate reductase from *Enterobacter cloacae* BC2 as a potential microorganism for reducing arsenate. *J. Chem. Pharm. Res.*, 7(10S):99-105
- Senthil Murugan P & Selvam G. S (2015). Identification and Quantification of Phytochemicals in *Acalypha Indica* Leaves. *International Journal of Pharma and Biosciences*. 6(2): 11-12
- Tharmarajan Ramprasath, Varadaraj Vasudevan, Sundaresan Sasikumar, Shanavas Syed Mohamed Puhari, Luciano Saso and Govindan Sadasivam Selvam (2015). Regression of Oxidative Stress by Targeting eNOS and Nrf2/ARE Signaling: A Guided Drug Target for Cardiovascular Diseases. *Curr Top Med Chem*. ;15(9):857-871.
- Sasikumar P, Gomathi S, Anbazhagan K, Abhishek A, Paul E, Baby, A E, Sangeetha J, & Selvam G. S (2014). Recombinant *Lactobacillus plantarum* expressing and secreting heterologous oxalate decarboxylase prevent the renal calcium oxalate stone deposition in experimental rats. *Journal of Biomedical Science*. 21: 86.
- Sasikumar P, Gomathi S, Anbazhagan K, Baby, A E, Sangeetha J, & Selvam G. S (2014). Genetically Engineered *Lactobacillus plantarum* WCFS1 Constitutively Secreting Heterologous Oxalate Decarboxylase and Degrading Oxalate Under In Vitro. *Current microbiology*, 69:708-15.
- Gomathi S, Sasikumar P, Anbazhagan K, Sasikumar S, Kavitha M, Selvi MS, Selvam GS (2014). Screening of indigenous oxalate degrading lactic acid bacteria from human faeces and South Indian fermented foods: assessment of probiotic potential. *Scientific world journal*. 9:648059.
- Ramprasath T, Senthamizharasi M, Vasudevan V, Sasikumar S, Yuvaraj S, Selvam GS (2014). Naringenin confers protection against oxidative stress through upregulation of Nrf2 target genes in cardiomyoblast cells. *J Physiol Biochem* 70:407-15.
- Senthil Murugan P and Selvam GS (2014). Furosemide and Potassium Chloride- induced alteration in Protein profile of left ventricle and its associated risk for sudden cardiac death. *Toxicol Int*. 21(1):1-7
- Selvi MS, Sasikumar S, Gomathi S, Rajkumar P, Sasikumar P, and Selvam GS (2014) “Isolation and characterization of arsenic resistant bacteria from agricultural soil, and their potential for arsenic bioremediation” *International Journal of Agricultural Policy and Research* 2 (11), 393-405.
- Sasikumar P, Gomathi S, Anbazhagan K, and Selvam G.S (2013), “Secretion of Biologically Active Heterologous Oxalate Decarboxylase (OxdC) in *Lactobacillus plantarum* WCFS1 Using Homologous Signal Peptides,” *BioMed Research International*, 2013:1-9.
- Anbazhagan K, Sasikumar P, Gomathi S, Priya HP, Selvam GS. (2013) In vitro degradation of oxalate by recombinant *Lactobacillus plantarum* expressing heterologous oxalate decarboxylase. *J Appl Microbiol*. 115(3):880-887.
- Ramprasath T, Selvam GS (2013) Potential Impact of Genetic Variants in Nrf2 Regulated Antioxidant Genes and Risk Prediction of Diabetes and Associated Cardiac Complications. *Curr Med Chem*.; 20(37):4680-4693.
- Ramprasath T, Kumar P.H, Puhari S.S.M, Murugan P.S, Vasudevan V and Selvam G.S.(2012) L-Arginine

- ameliorates cardiac left ventricular oxidative stress by upregulating eNOS and Nrf2 target genes in alloxan-induced hyperglycemic rats, *Biochemical and Biophysical Research Communications* . 428(3):389-394.
- Ramprasath T, Murugan P.S, Kalaiarasan E, Gomathi P, Rathinavel A and Selvam G.S [2012] Genetic association of Glutathione peroxidase-1 (GPx-1) and NAD (P) H: Quinone Oxidoreductase1 (NQO1) variants and their association of CAD in patients with type-2 diabetes, *Molecular and cellular biochemistry*, 361:143-150.
 - Raja CE and Selvam GS. (2012) Characterization of chromosomal mediated cadmium resistance in *Pseudomonas aeruginosa* strain BC15. *J. Bas. Microbiol.* 52(2):175-183
 - Murugan SM, Ramprasath T and Selvam GS (2011). Cardioprotective role of *Acalypha indica* extract on Isoproterenol induced myocardial infarction in rats. *Journal of Pharmacy*, 4: 2129-2132.
 - Ramprasath T, Senthil MP, Prabhakaran AD, Gomathi P, Rathinavel A, Selvam GS.(2011). Potential risk modifications of GSTT1, GSTM1 and GSTP1 (glutathione-S-transferases) variants and their association to CAD in patients with type-2 diabetes. *Biochem. Biophys. Res. Comm.* 407: 49-53.
 - Subbiah R, Chengat V, Clifton JD, Rathinavel A, Bidulescu A, Tharmarajan R, Selvam GS (2010). Cardiac isoform of alpha 2 macroglobulin and its reliability as a cardiac marker in HIV patients. *Heart, lung & circulation.* 19: 93-95.
 - Anbazhagan K, Leema G and Selvam GS (2009). Heterologous Expression of Oxalate decarboxylase in *Lactobacillus plantarum* NC8. *Current Microbiology.* 58: 117-121.
 - Paul BT, Babu MS, Santhoshkumar TR, Karunagaran D, Selvam GS, Brown K, Woo T, Sharma S, Naicker S, Murugesan R (2009). Biophysical evaluation of two red-shifted hypocrellin B derivatives as novel PDT agents. *J Photochem Photobiol B.* 94: 38-44.
 - Raja CE and Selvam GS (2009). Plasmid profile and curing analysis of *Pseudomonas aeruginosa* as metal resistant. *Int. J. Environ Sci Tech.* 6: 259-266.
 - Anbazhagan K, Sampathkumar K, Ramakrishnan M, Gomathi P, Gomathi S, Selvam GS (2009). Analysis of polymorphism in renin angiotensin system and other related genes in South Indian chronic kidney disease patients. *Clin Chim Acta.* 406:108-112.
 - Solomon PR, Selvam GS and Shanmugam G (2008). Promoter hypermethylation analysis in myeloplastic syndromes: Diagnostic & prognostic implications. *Indian Journal of Medical Research.* 127: 52-57.
 - Solomon PR, Selvam GS and Shanmugam G. (2008). Polymorphism in ADH and MTHFR genes in oral squamous cell carcinoma of Indians. *Oral Dis.* 14: 633-639.
 - Raja CE, Sasikumar S and Selvam GS (2008). Adaptive and cross resistance to cadmium (II) and zinc (II) by *Pseudomonas aeruginosa* BC1. *Biologia, Versita.* 63: 461-465.
 - Subbiah R, Pitchai B, Manjeet S, Andiappan R, Koteswara A, Tharmarajan Ramprasath and Govindan Sadasivam Selvam (2007). Functional Characterization of Cardiac isoform of Alpha 2 Macroglobulin (CA2M): Identification of Non-Hypertrophic Domain. *The Cardiology.* 3: 20-23.
 - Dhandapany PS, Sadayappan S, Vanniarajan A, Karthikeyan B, Nagaraj C, Gowrishankar K, Selvam GS, Singh L, Thangaraj K.(2007) Novel mitochondrial DNA mutations implicated in Noonan syndrome. *Int J Cardiol.* 21: 284-285.

- S. Ramaswamy, A. Rathinavel, P.S. Dhandapani and G. S. Selvam (2006). Cardiac isoform of alpha 2 macroglobulin (CA2M) an early diagnostic marker for cardiac manifestations in AIDS patients. *AIDS*. 20: 1979-1981.
- Viswanathan M, Solomon PR, Tsuchida N, Selvam GS and Shanmugam G (2006). Hypermethylation analysis of *E. Cadherin* and *hMLH* genes associated with Indian breast carcinoma. *Indian Journal of Experimental Biology*. 44: 1196-1198.
- Paul BT, Patel A, Selvam GS, Mishra S and Murugesan R (2006). Photodynamic action of C-phycoyanins obtained from marine and fresh water cyanobacterial cultures: A comparative study using EPR spin trapping technique. *Free Radical Research*. 40: 821-825.
- P. Annaporani, P.S. Dhandapani, S. Sakthivel, S. Ramaswamy and G.S. Selvam (2006). Cardiac isoform alpha 2 macroglobulin as a diagnostic marker for myocardial infarction diabetic patients. *Atherosclerosis*. 186: 173-176.
- Rathinavel, P.S. Dhandapani, P. Annaporani, S. Ramaswamy and G. S. Selvam (2005). Cardiac isoform of alpha 2 macroglobulin (182kda protein) as a diagnostic marker for cardiac disease. *European Journal of Cardiovascular prevention and Rehabilitation*. 12: 601-603.
- Edward RC, Anbazhagan K and Selvam GS (2005). Isolation and characterization of metal resistant *Pseudomonas aeruginosa* strain. *World journal of Microbiology and Biotechnology*. 22: 577-585.
- Jayasree S, Selvam GS and Thomas S (2000). Development of an enzyme – linked immunosorbent assay (ELISA) for agglutination, an antibacterial protein of the shrimp *Penaeus indicus*, *Journal of crustacean biology* 20: 621-627.
- Kumar MKS, Selvam GS and Jasmine PS (1998). Cadmium tolerance and metal accumulation by bacterial strain from industrial effluents. *J. of Scientific and Industrial Research*. 57: 817-820.
- A. Nazeema, Sheji Mary and Selvam GS (1998). Isolation and characterization of oxalate degrading bacteria from marine and terrestrial environment of Cochin. *J. of Scientific and Industrial Research*. 57: 795-799.
- Anitha A, Sheeja K and Selvam GS (1997). Restriction endonuclease analysis of mitochondrial DNA in two populations of *Penaeus indicus* H. Milne Edwards. *Indian Journal of Experimental biology*. 35: 948-955.
- Selvam GS, Varalakshmi P. (1992) Changes in liver constituents in stone forming rats treated with L (+) Tartarate. *Ind. J. clin. Biochem*. 6:39-45.
- Selvam GS, Subha K, Varalakshmi P (1992). Effect of L(+)-tartrate on some biochemical and enzymatic parameters in normal and glycolate treated rats. *Pharmacol Res*. 26: 385-394.
- Selvam GS, Varalakshmi P (1990). Role of L (+) Tartarate in experimental tartaric acids on calcium oxalate urolithiasis, *Medical Science Research*. U.K. 18: 345-348.
- Selvam GS, Varalakshmi P (1990). Biochemical changes in kidneys of normal and stone forming rats with L(+)-tartrate. *Indian J Exp Biol*. 28: 1046-1049.
- Selvam GS, Varalakshmi P (1989). Effect of different isomers of tartarate on oxalate metabolism in hyperoxaluric rat. *Medical Science research*. U.K. 17: 685- 687.

PAPER PRESENTED IN CONFERENCE/SEMINAR/WORKSHOP

Name of the Conference	Date	Place	Title	Author(s)
45 th Aqua-terr annual conference on Biological sciences	Feb-14	MKU, Madurai	Isolation and characterization of agar-degrading bacteria and cloning of the cadmium resistant promoter (PcadR) from <i>P. aeruginosa</i> BC15 for the development of bacterial biosensor (Poster Presentation)	Rajkumar Prabhakaran, Ramprasath Tharmarajan, Sasikumar Sundaresan and Selvam Govindan Sadasivam
International conference on Modern Progress in Biotechnology	Oct- 14	Thiruchirapalli	Molecular cloning and characterization of Cadmium resistant Promoter (PcadR) from <i>P. aeruginosa</i> BC15 for the development of Bacterial Biosensor (Oral Presentation)	Rajkumar Prabhakaran, Ramprasath Tharmarajan, Sasikumar Sundaresan and Selvam Govindan Sadasivam
2 nd International conference on "Frontiers in Biological Sciences" (INCOFIBS 2015)	Jan-15	IIT, Rourkela	Effect of bioflavonoids on cadmium induced cell apoptosis, dna damage and oxidative stress in myocardial h9c2 cells.	Sundaresan Sasikumar, Nancy Bright Raj, Samu John and Govindan Sadasivam Selvam
International conference on Probiotics - from bench to community	Mar-15	Yakult India Microbiota and Probiotic Science Foundation, New Delhi	Development of genetically modified biological containment probiotic for degradation of dietary oxalate- a therapeutic approach for kidney stone disease	Eldho Paul, P. Sasikumar, Abhishek A and G.S Selvam
Indo Canadian conference on Heart Failure	Mar - 15	Trivandrum , Kerala	Effect of gallic acid on cardiac marker enzymes and Nrf2 expression in cadmium induced cardiotoxicity in rats	Sundaresan Sasikumar, Samu John and Govindan Sadasivam Selvam

New Horizons in Biotechnology	Nov-15	Trivandrum	Cloning,expression and characterization of trans acting regulatory gene (arsR) in <i>E.coli</i> for arsenic bioremediation	Selvi et al
New Horizons in Biotechnology	Nov-15	Trivandrum	Molecular cloning and expression of bacterial oxalate decarboxylase gene in human embryo kidney 293 cells: A potential candidate for gene therapy of Hyperoxaluria	Abhishek A, Vidhi Tiwari, Eldho Paul, Sasikumar P, GS SELVAM
International conference on Frontiers in Life Science	Jan-16.	St. Joseph's College, Thiruchirappalli, India.	Association of antioxidant gene variants with type 2 diabetes patients and the therapeutic potential of <i>Andrographis paniculata</i> in type 2 diabetic rats	Gomathi P and Selvam GS
National seminar on Frontiers in Biotechnology	Feb-16.	Bharathiyar University, Coimbatore	Paraoxonase 1 polymorphisms and the risk of type 2 diabetes	Gomathi P, Anandi chandramouli Iyer and Selvam GS
47 th Aqua-terr Annual conference	Feb-16	Madurai Kamaraj University	Association between UCP2 variant and Type 2 Diabetes in South Indian population” in National conference on Recent Trends in Modern Biology	Gomathi P, Apurwa Samrath and Selvam GS
National conference on Recent Trends in Modern Biology and 47 th Aqua-terr Annual conference	Feb-16	Madurai Kamaraj University	Role of Quercetin in the amelioration of Diabetes induced renal fibrosis: in silico and in vitro .	. G.Divya , Gulshan Kumar, Abhishek Albert, M.Jayalakshmi and G.S Selvam
National Seminar on Bio-chemiinformatics conducted by Bharathiyar University , February 2016.	Feb-16	Bharathiyar University, Coimbatore	Molecular Docking and structure based Virtual Screening of Bioflavonoids with AMPK alpha 2 protein	G.Divya , Gulshan Kumar, Abhishek Albert, and G.S Selvam
National conference on Recent Trends in Modern Biology	Feb-16	MKU, Madurai	Association of oxalate toxicity and endoplasmic reticulum stress in hyperoxuluria induced experimental rats	Abhishek A, Shaly B, Eldho Paul, Sasikumar P, Selvam G S
47 th Aqua-terr National conference on Recent Trends in Modern Biology	Feb-16	MKU, Madurai	A novel extracellular agarolytic enzyme producing <i>Arthrobacter</i> spp. AG-1 isolated from Gulf of Mannar. (Oral Presentation)	Rajkumar Prabhakaran, Ramprasath RT, Sasikumar sundaresan and Selvam Govindan sadasivam
National seminar on Frontiers in Biotechnology	Feb-16	Bharathiyar University, Coimbatore	Hyaluronic acid mediated motility receptor a novel biomarker for diagnosis and prognosis of Rheumatic carditis	A. Nancy Bright and G.S. Selvam
National seminar on Biochemiinformatics	Feb-2016.	Bharathiyar University, Coimbatore	<i>In silico</i> analysis of ACE inhibitors as potential target for megalin activated attenuation of proteinuria	Shanavas Syed Mohamed Puhari,

				Narasimman Vignesh, Ganesan Divya, Ponnusamy Chandrasekar and Govindan Sadasivam Selvam
National Conference on Applications of recent methodologies in exploring revolutionary biopharmaceuticals for lifestyle diseases	Mar-16	Kanchipuram,	Ascorbic acid and Resveratrol ameliorates Nrf2 signaling and protects H9c2 cardiac cells from Cd mediated myocardial hypertrophy	Sasikumar P., MishraSrishti , AmalrajVigneshand Selvam G.S.
National Conference on Applications of recent methodologies in exploring revolutionary biopharmaceuticals for lifestyle diseases,	Mar - 16	Karpaga vinayaga College of engineering and technology, Chinna KolambakkamKancheepuram District	Ascorbic acid and Resveratrol ameliorates Nrf2 signalling and protects H9c2 cardiac cells from Cd mediated myocardial hypertrophy	Sundaresan Sasikumar, Nancy Bright Raj, Yuvaraj, Rajkumar P and Govindan Sadasivam Selvam
International Conference on Chemistry of Biomolecules-Current trends and future perspectives	July-16	Holy Cross College, Thiruchirappalli	Comparative proteomic analysis of serum from Rheumatic heart disease patients with Sinus rhythm and Atrial fibrillation	A. Nancy Bright and G.S. Selvam
Chemistry of Biomolecules-Current trends and Future perspectives	Jul-16.	Holy Cross College Thiruchirappalli	Megalyn promoter polymorphism and its association in Chronic Kidney disease of South Indian Population	S. Syed Mohamed Puhari, N. Vignesh , V. Vasudevan , C. Amutha and G.S. Selvam
International conference on "Chemistry of Biomolecules-Current trends and Future perspectives" (Sponsored by UGC, DBT, DST)	July-16	Holy Cross College, Thiruchirappalli	Cadmium Induced Macrophage Differentiation And Prevalence of Early Atherosclerosis In South Indian Population	Sundaresan Sasikumar, Francis Yesurajan and Govindan Sadasivam Selvam
International conference on Chemistry of Biomolecules-current trends and future Perspectives (ICCBCTFP-2016)	July - 16	Holy cross college,Tiruchirappalli	Development of Colorimetric-based Bacterial Biosensor for Quantification of Cadmium using agarase as a novel reporter gene (Oral Presentation)	Rajkumar Prabhakaran, Ramprasath Tharmarajan, Sasikumar Sundaresan and Selvam Govindan Sadasivam

Chemistry of Biomolecules- Current trends and Future perspectives	July-16	Thiruchirapalli	Computational and Molecular Analysis of Oxalate Induced Endoplasmic Reticulum Stress Mediated Apoptosis In Kidney Stone Disease	Albert Abhishek, Divya Ganesan, Eldho Paul, Ponnuswamy Sasikumar, Nagarethina mBaskaran, GovindanSadasivamSelvam
International conference on Chemistry of Biomolecules- Current trends and Future perspectives	July - 16.	Holy cross college, Tiruchirappalli	Food grade recombinant <i>L. plantarum</i> secreting heterologous oxalate decarboxylase for the prevention of dietary hyperoxaluria (Oral presentation)	Eldho Paul, Abhishek A., Sasikumar P., MishraSrishti , AmalrajVigneshand Selvam G.S.
Chemistry of Biomolecules- Current trends and Future perspectives	July 2016.	Holy Cross College Thiruchirapalli	Haptoglobin Genetic polymorphism and their association with Chronic Kidney Disease in South Indian Population.	V.Vasudevan , Swatilekha Hazra , K. Sampathkumar , S. Syed Mohamed Puhari and G.S. Selvam
Chemistry of Biomolecules- Current trends and Future perspectives	July 2016.	Holy Cross College Thiruchirapalli	Chrysin mediated Cardioprotection Against Oxidative Stress By Upregulating caveolin and Enos signalling in H9c2 Cell Line	S. Yuvaraj, Susmitasaxena, VaishaliBhargav, S. Syed Mohamed Puhari, and G.Selvam
International conference on Probiotics in Health- Emerging opportunities and 8th India Probiotic symposium organized by Gut microbiota and Probiotic science foundation (India)	Dec-16	Chennai	Food grade <i>Lactobacillus plantarum</i> expressing heterologous oxalate decarboxylase as a therapeutic tool for kidney stone disease (Best poster Award)	Eldho Paul, Abhishek A. and Selvam G. S
48 th Aquaterr National Conference	Feb- 17	MKU, Madurai	Nephroprotective effect of Tectorigenin-7-O- β -glucosyl (1 \rightarrow 6) glucoside and Tectorigenin-7-O- β -glucosyl-4'-O β -glucoside from <i>Iris spuria</i> extracts against hyperglycemia and hyperoxaluria induced oxidative stress	<u>Ganesan</u> <u>Divya</u> , Abhishek Albert, Eman Al-Sayed, Abdel Nasser B. Singab, Luciano Saso and Govindan Sadasivam Selvam
National conference on Innovations in Modern Biology & 48th Aqua-	Feb-17.	Madurai kamaraj University,	Isolation and purification of Fucoidan from Indian Brown seaweeds of gulf of manner.	S. Syed Mohamed Puhari, S.

Terr Annual Conference		Madurai		Yuvaraj, G. Divya, V. Vasudevan, K. Arun Kumarand G.S .Selvam
National conference on Innovations in Modern Biology & 48th Aqua-Terr Annual Conference	Feb-17.	MKU, Madurai	Group II intron-mediated integration of heterologous oxalate decarboxylase in the genome of <i>Lactobacillus plantarum</i>	Eldho Paul, SahanaR, Forum Bhanushali, Abhishek A, Rajkumar P and G. S Selvam
49 th Aqua-Terr Annual conference on Biological Sciences	Feb-18	MKU, Madurai	Development of designer probiotics displaying peanut allergens as vaccine candidate for peanut allergy	Eldho Paul, SahanaR, Forum Bhanushali, Abhishek A, Rajkumar P and G. S Selvam
National Science day & 49 th Aqua-terr annual conference	Feb-18	MKU, Madurai	Cornusiiin B from <i>Eucalyptus globules</i> Induced ROS Mediated Apoptosis in H9c2 Cardiomyoblast cells	S.Yuvaraj, Z. Jabeen Sulthana, S. Sasikumar, S. Syed Mohamed Puhari, Abhishek Albert, G.S.Selvam
49 th Aqua-terr Annual conference	Feb-18	MKU, Madurai	Identification of multiple virulence factors through Proteomic driven evaluation and functional annotation of <i>S.pyogenes</i> SF370 in RHD induced Lewis rats	A. Nancy Bright, Sandhana Selvaraj and G.S. Selvam
International Conference on Cardiovascular Sciences	Feb-18	MKU, Madurai	Cadmium stimulates monocyte differentiation and up regulation of miRNA 155 in THP1 cells	Sundaresan Sasikumar, Yuvraj Subramanian , Rajkumar Prabhakaran, Francis Yesurajan and Govindan Sadasivam Selvam

CONFERENCE/WORKSHOP/SEMINAR/TRAINING ORGANIZED

Type	Name	Date(s)	Place	Role Played	Funding Agency
Workshop	30th UGC-NRCBS Winter School "Advances in Molecular Diagnostic Techniques based on Biochemistry & Immunology"	December, 2016	Madurai Kamaraj University	Convener	NRCBS
Conference	Chemistry of Biomolecules - current and future perspectives	July, 2016	Holy Cross College, Trichy	Convener	DBT, DST, UGC

BOOK PUBLISHED

Title of the Book / Chapter	Author	Publisher	Year	ISBN Number
A Simple Whole Cell Microbial Biosensors to Monitor Soil Pollution", <i>Elsevier, Nanotechnology in Food Industry (I-X) Multi-Volume SET</i>	Rajkumar P, Ramprasath RT, Selvam GS	Elsevier	2015	eBook ISBN: 9780128043707 Hardcover ISBN: 9780128042991
Recombinant lactic acid bacteria secreting OxdC as a novel therapeutic tool for the prevention of kidney stone disease.	Eldho Paul, PonnusamySasi kumar, SivasamyGomathi, Albert Abhishek and GovindanSadasi vamSelvam	Elsevier	2017	978-0-323-52725-5

MEMBERSHIP IN ACADEMIC BODIES

Name	Membership period year/ life member	State/ National/ International
Member Academic council, MKU	Ex officio Member	National
Member Senate, MKU	Ex officio Member	National
Chairman UG and PG Board of Studies in Biochemsitry, MKU	Since 2000	National
Chairman Board of Studies PG Biochemical Technology, MKU	Since 2000	National
Chairman Theory and Practical examination in Biochemistry, MKU	Since 2000	National
Chairman- Theory and Practical Examination in Biochemical technology, MKU	Since 2000	National
Member Board of Studies in Biochemistry, Baharathidasan University, Trichy.	2001-2004	National
Member Board of Studies in Biochemistry, Madras University, Chennai.	2005-2008	National
Member Board of Studies in Biotechnology, Bharathiyar University, Coimbatore.	2004-2007	National
Member Board of Studies in Biotechnology , Cochin University, Cochin	2010-2013	National
Urolithiasis Society of India.	Life member	National
Society of Biological Chemistry, India	Life member	National
Biotechnology Society of India	Life member	National

MEMBERSHIP IN PROFESSIONAL BODIES

Name	Membership period year/ life member	State/ National/ International
Urolithiasis Society of India.	Life member	National
Society of Biological Chemistry, India	Life member	National
Biotechnology Society of India	Life member	National

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ADMINISTRATIVE EXPERIENCE

Role Played	Responsibilities	Period (Month & Year)
Dean College Development Council	Recognition, Affiliation of courses and Endowment	2017
Coordinator, M.Sc., Biochemistry Programme	Course Coordinator	2017
Coordinator, UGC Networking Resource Center in Biological Sciences (NRCBS)	NRCBS Programme Coordinator	2012
Coordinator, M.Sc., Biochemical Technology Programme	Course Coordinator	Since 2000
Coordinator , DBT Integrated Programme in Life Sciences (IPLS) for Advanced Research and Education	IPLS Programme Coordinator	2012
Coordinator – Fund for Improvement of Science and Technology Infrastructure in Higher Education Institutions(DST-FIST-Level –II)- 2012	Coordinator of FIST Programme	2012
Chairperson, School of Biological Sciences, Madurai Kamaraj University, Madurai-21	Coordinator of School of Biological Sciences	2012-2014

CONTACT

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