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Education at a glance

Examination Passed	Subjects/ Subjects with Specialization	Year of Passing	Percentage of Marks/Grade/CGPA	Name of the College and University
B.Sc.,	Zoology	1992	70.9%	Madurai Kamaraj Univ
M.Sc.,	Zoology	1994	77.2% (Second Rank)	Madurai Kamaraj Univ
Ph.D	Zoology	1998	Highly Commented	Bharathidasan Univ.
Ph.D	Biotechnology	2012	Highly Commented	Bharathidasan Univ.
Degree		Title of the Thesis/ Project		
M.Sc		Fortification of silkworm <i>bombyx mori</i> to improve cocoon quality and fecundity using essential amino acids		
Ph. D.(Zoology)		Histomorphology Biochemistry and Chemical identification of rat scent glands in relation to rodent pest management: A New light In IPM Programme		
Ph.D (Biotechnology)		Molecular Cloning and Proteomic Analysis of Mouse V2Rx Receptor		

Experience in

- (a) Teaching : 17 years
 (b) Research : 17 Years (Molecular Cell Physiology and Cancer Nanomedicine)

Ph.D Guided :10 Guiding : 8
 M.Phil Guided: 27 Guiding : 1

Research Awards

S. No	Institution	Position held	Temporary/ Permanent	Duration		Total Period of experience
				From	To	
1.	Indian Institute of Science Bangalore	Post Doctoral Fellow (DBT)	Regular	1997	1999	1 Year and 6 Months
2.	Dept. of Biotechnology ANJA College (Autonomous)Sivakasi	DST Young Scientist	Regular	2000	2003	3 Years
3.	University of Leeds and Birmingham, UK	DBT Overseas Associate	Regular	2005	2006	1 Year (on Deputation Service)

SEMINARS/WORKSHOPS AND CONFERENCES ORGANIZED

- Programme Co-ordinator: Workshop on Basic Molecular Biology (Sponsored by Genei Pvt. Ltd, India) (2000).
- Organizing Secretary: National Seminar on Molecular Reproduction and Biomedicine 2001- (Sponsored by DST).
- Organizing Secretary: International Workshop on Microbial Genetics – 2002 (Sponsored by UNESCO, CSIR, INSA & DST).
- Co-Ordinator: Summer training in Immunology (2003).
- Organizing Secretary: National Symposium on Current status of Biochemistry Sponsored by CSIR and ANJAC). (August 2004).
- Organizing Secretary: Workshop on IPR & Patent awareness on 16th Sept. 2004 (Sponsored by The Patent Cell, Govt. of India).
- Programme Co-ordinator: International Workshop on Genomics and Proteomics (Sponsored by CSIR, INSA and TNSCST) -2005.
- Organizing Secretary: National Symposium on Current trends in Microbiology, Biotechnology and Genetics Research (sponsored by CSIR) -2006.
- Organizing Secretary: International Conference on Transcriptomics (Sponsored by Royal Society of London, UK) -2007.
- Programme Co-Ordinator: National Workshop on Bioinformatics and Chem-informatics (Sponsored by the Management, ANJA College) -2008.
- Organizing Secretary : International Seminar on Medical Biotechnology (Sponsored by the Management, ANJA College) -2008
- Convenor: National Workshop on Advanced Plant Biotechnology (Sponsored by DBT, New Delhi) -2008.
- Convenor: International Conference on Physiology and Medicine from October 15th to 17th, 2014 (Sponsored by INSA & ICMR).

Academic Achievements

- M.Sc., Rank holder (II Rank) in 1994
- CSIR Awarded Fellowship (SRF) in 1996-1998
- DST granted Travel grant to attend Mol. Biol. Workshop at London-1996
- Passed in State Level Eligibility Test for Lectureship – 1997
- Awarded Ph.D., Degree in 1998
- Joint as DBT-Post Doctoral Fellow in IISc., Bangalore (MRDG lab)- 1999
- Joint as Lecturer in Biotechnology at ANJA College in 2000
- DST awarded young Scientist Scheme in 2000
- Nominated as Member of ANJA College Academic Council in 2000
- Recipient of DBT- Overseas Associateship Award 2005 – 2006
- Nominated as Rodent Specialist by RISCINSA for South Asian Countries
- Biotechnology and Bioinformatics (2007-2008)

Membership in National and International Academic and Scientific Bodies

- Life Member in National Academy of Sciences (Allahabad)
- Life member in the Bioinformatics institute of India
- Life member in the Society for Biological Chemists, India
- Life member in the Society for Experimental Zoology, India
- Life Member in the Society for Cell Biology, India
- Member in Academic Council of Ayya Nadar Janaki Ammal College, Sivakasi
- Member in the Ethnological Society of India.
- Nominated as one of the Rodent Specialists in South Asian Countries (RICINSA).
- Nominated as Editorial Board member in an International Journal (Biochemical and Cellular Archives).
- Life Member in the Society for Comparative Endocrinology and Reproductive Biology.
- Life member in the Association of Microbiology India (AMI)
- Co-ordinator: Refresher Course in Life Sciences, ASC, Bharathiar University from 9th Feb-1st Mar, 2011(Sponsored by UGC).
- Organizing Secretary: National Seminar on Ethology (Sponsored by DST and Ethnological Society of India)-2012
 - Papers presented in National Conferences : 95
 - Papers published in international Journals : 50
 - Abroad Visit : UK, USA, China, Japan, South Africa, Germany and Singapore, Korea

Research Funds received from Various Funding Agencies

S. No	Funding Sources	Amount in Rupees	Purpose Received
1	UGC	37,000.00	Minor Research Project (Ministry of Human Resources, Govt. of India, but not operated)
2	ANJAC	7,00,000.00	Major Research Grant (Management Grant; Co-investigator with Dr. S.Sevagapandian)
3	DST	30,000.00	To conduct National Seminar (Ministry of Science and Technology, Govt. of India)
4	CSIR	15,000.00	To conduct National Seminar (Ministry of Human Resources, Govt. of India)
5	UNESCO	50,000.00	To conduct International Workshop
	INSA	10,000.00	To conduct International Workshop (Indian National Science Academy, Govt. of India)
6	DST	50,000.00	To conduct International Workshop (Ministry of Science and Technology, Govt. of India)
7	TIFAC	1,70,000.00	Conduct IPR Workshop (Indian Patent Cell, Ministry of Science and Technology, Govt. of India)
8	DBT	50,000.00	Conduct Plant Biotech workshop
9	Royal Soc. London	2,00,000	Organize international Seminar on Transcriptomics.
10	ANJAC	50,000	Organize International Conference on Medical Biotechnology

Committee Members

1. Co-Ordinator, School of Life Sciences, Periyar University, Salem
2. Member Senate, Periyar University, Salem
3. Co-Ordinator, IQAC, Periyar University, Salem
4. Board of Studies member in Zoology, Bharathiar University, Coimbatore
5. Chairman Board of Studies in Zoology, Periyar University, Salem
6. Member in Inspection commission for M.Sc. Zoology Course affiliation, Periyar University, Salem
7. Reviewer in **Elsevier Journals: Nanomedicine, J of Nutrition and Process Biochem**
8. Reviewer in **Springer Journals: Cancer Nano., Nanoscale Research lett., and Journal of Nanoparticle Research. J of Mol. Biol reports**
9. Reviewer in **British Journal of Pharmaceutical Research, ACS Materials and Interfaces; International J of Biological Macromolecules**

Invited Lectures Delivered in Various Scientific Meetings/Organizations by Prof. S.Kannan of Zoology Department

S. No	Period	Nature of the Programme: International/ National	Title of the programme	Name and Address of the organizing institute	Nature of Presentation: Invited Lecture/ Key note Address etc
1.	17.12.2014	Regional	Faculty Development Programme: Attributes of Holistic Teaching	IQAC, Periyar University, Salem	Presidential Address
2.	30.09.2014	Regional	Biostatistical Software Packages	Food Science with IQAC, Periyar University, Salem	Presidential Address
3.	11.09.2014	Regional	Faculty Development Programme for College Teachers	IQAC, Periyar University, Salem	Welcome Address
4.	18.06.2014	International	International Conference on Cancer Biology	Korean Association of Cancer Seoul, Korea	Invited lecture on Nanotherapy for lung cancer
5.	21.03.2014	National	National Conference On Innovations, Implementations And Controversies Of Animal Biotechnology	Bharathidasan University Tiruchirappalli	Role of Cyclin and CDKs in cancer
6.	22.02.2014	National	National Seminar on Current Trends in Zoology	Chikaya Naikkakar College, Erode	Current scenario of Cancer treatment
7.	31.01.2014	State level	State level Seminar on Cancer Research (UGC Sponsored)	SBK College of Arts and Science Aruppukkottai	Current scenario of Cancer Research in India
8.	30.01.2014	National	National Conference on Evolutional Biology and Pharmaceutical Chemistry	Bharahidasan University and Holy Cross College Trichy	Smart Drug Delivery using metal Nanoparticle to target Cancer

	22.01.2014	National	National Seminar on Nutriproteomics	Kongu Engineering College, Perundurai Coimbatore	Impact of Nutrition on Cancer Treatment
9.	09.01.2014	Regional	UGC Sponsored Research Methodology Programme for Life Science Scholars	Dept. of Zoology Bharathiar Univ. Coimbatore	Evolution of PCR and its Application in Bioscience Research
10.	22.11.2013	Refresher Course	ASC-Bharathiar Univrsity Refresher Course in Life Sciences	Dept. of Zoology Bharathiar Univ. Coimbatore	Cancer Stem Cells in Medicine
11.	28.11.2013	International	International Conference on Global Warming on Biodiversity of insect Management and Conservation strategy	Dept. of Zoology Bharathiar Univ. Coimbatore	Role of Pheromones in Conservation of Beneficial insects
12.	11.11.2013	International	International Symposium on Bioscience Research for Present & Future	Vivekanandha College of Arts and Science Tiruchengode	Key Note Address: cPLA2 : A Potential Target for Lung Cancer
13.	11.09.2013	State level Seminar	Bio-vision-2013	Sri Kaliswari College of Arts and Science SIVAKASI	Cell Cycle targets for Anticancer drugs
14.	06.09.2013	Special Lecture	Special Lecture Programme	Vivekanandha College of Arts and Science Tiruchengode	Cell Cycle Check Points
15.	07.03.2013	National	National Seminar on Recent trends in Biological Sciences (DST Sponsored)	Dept.of Zoology, Nehru Memorial College, Puthanampatti	Induced Pluripotency
16.	27-02-2013	State Level	State Level Seminar on recent Trends in Life Sciences (UGC Sponsored)	Dept. of Zoology Meenakshi College Madurai	Cancer Proteomics
17.	04.10.2012	Refresher Course	Refresher Course in Zoology	ASC Bharathiar Univ. Coimbatore	RNai Technology
18.	7.11.2012 & 19.11.2012	Refresher Course	Refresher Course in Life Sciences	Academic Staff College Madurai Kamaraj University Madurai	Nanomedicine
19.	28.12.2012	National	Science Academies Lecture Workshop	PSGR Krishnammal College, Coimbatore	siRNA to target Breast Cancer
20.	25.07.2012	National	Workshop on Basic Molecular Techniques	Bharathiar University Coimbatore	PCR & Its Applications

21.	30.03.2012	National	National Seminar on Advances in Biological Research	Dept of Biotechnology, ANJA College, Sivakasi	Cancer Nanobiology
22.	23.06.2011	National	Refresher Course in Life Sciences	Bharathidasan University	Cancer Genomics
23.	21.05.2011	National	Orientation Course Refresher Course	Bharathiar University	Lung and Breast Cancer
24.	26.02.2011	National	National Seminar on Biomedicine	Senguthar Arts and Science College	Nanomedicine
25.	18.02.2011	National	Refresher Course in Life Sciences Academic Staff College	Bharathiar University,	Cancer Statistics in India
26.	16.02-2011	National	Orientation Course Academic Staff College	Bharathiar University,	Health & Diseases
27.	04.02.2011	National	National Seminar on Biotechnology	Sri Kaliswari College, Sivakasi	Cancer Proteomics
28.	14.09.2010	National	Inaugural Speech in the Zoology Association,	Vellalar College for Women, Erode	Cloning in Animals
29.	25.08.2010	International	<u>9th international conference of the Asian Clinical Oncology</u>	Society at Gifu University, Japan	cPLA2 Cancer therapy
30.	26.02.2010	National	National Seminar On Nano Biotechnol.	Savitha University, Chennai	Nano Medicine
31.	22.02.2010	National	National Seminar on “Frontiers of Biotechnology & Bioinformatics	N.S.S College Ottapalam, Kerala	Cancer Proteomics
32.	13.02.2010	National	National Symposium on Effective Control of Emerging & Reemerging Viral Diseases	Kings Institute of Preventive Medicine and Research, Chennai	Non-Viral Gene Transfection : Does Nanoparticle Enhance Gene Delivery
33.	21.01.2010	National	Super clone Association,	Dept of Biotechnol, Vivekanandha College of Arts & Science For Women Tiruchengode.	Cancer Biomarkers
34.	10-09-2009	National	Conference on Animal behavior & Chrono-biology, School of Biology	Madurai Kamaraj University, Madurai	Biology of Pheromone Binding Proteins
35.	09-09-2009	National	Conference on Animal behavior & Chrono-biology,	Madurai Kamaraj University, Madurai	Physiology of Mammalian Pheromones

36.	12-08-2009	National	National Seminar on Agriculture and Coconut Value addition	Organized by Department of Agriculture, Govt. of Lakshadweep	Need of Rodent Pest Management in Lakshadweep
37.	13.08.2008	National	2 nd National Symp. On Current trends in Biotechnology	St. Michael College of Engg. & Technol, Kalayarkoil. TN	Transcriptomics
38.	18.05.2008	State Level	TNSCST Young Scientist Programme	Haji Karthar Ravuthar College Uthamapalayam	Opportunities for Biotechnologists
39.	20.09.2007	Local	Department Function	VVV College Virudhunagar	Inaugural Address
40.	22.02.2007	National	National Symp. On Current trends in Biotechnology	St. Michael College of Engg. & Technol Kalayarkoil. TN	Molecular Biology of Ion channels and Health Diseases
41.	21.10.2006	National	National Symposium on Biotechnology	ANJA college, Sivakasi	Molecular Cloning of V2Rx receptor in <i>E.coli</i>
42.	9.2.2005	National	National Workshop on Biotechnological Methods	J.J.College of Arts & Sci Pudukkotai.	<i>Plasmodium</i> Genomics
43.	23.9.2004	Local	Inaugural address in the Biochemistry Association	Sri Nagalakshmi Ammal College, P.N.Patti. TN	DNA Sequencing
44.	14.9.2004 (3-4pm)	Regional	Regional Seminar on Biotechnology	J.J.College of Arts & Sci Pudukkotai.	Molecular Perception of Pheromone Signals
45.	14.9.2004 (9-10pm)	Regional	Regional Seminar on Biomolecules and Human Health	Ponniyah Ramajam College Thanjvur.	Current Status of Proteomics
46.	12.5.2003	National	UGC Refresher Course in Physics	Ayya Nadar Janaki Ammal College, Sivakasi	Protein Structure Prediction
47.	21.6.2002	National	National conference on Human Biology	P.G.P.College of Arts & Sci. Namakkal.	Human Genome Project
48.	14.3.2000	Local	Inaugurated the Biochemistry Association	VVV College for women Virudhunagar	<i>Agrobacterium</i> Mediated gene transfer
49.	26.6.2000	Local	Life Sci. Scholars Association	Bharathidasan University	Green Fluorescent Protein

Research Undertaken / Carried out

Position and Place	Period	Research Project
Post Doctoral Fellow (DBT) Department of Mol. Reprod. & Dev. Genetics (MRDG) Indian Institute of Science Bangalore – 560 012	Dec. '97 to June 98	Development of immuno contraceptive vaccine against the Riboflavin carrier protein in Mammals.
Young Scientist (DST) Department of Biotechnology Ayya Nadar Janaki Ammal College Sivakasi – 626 124	Jan.2000 to March 2003 Rs. 5.0 lakhs	Isolation, Characterization and Assessment of Biological Functions of Pheromone Receptor Proteins in Mice Olfactory system
DBT Overseas Fellow Department of Molecular Microbiology School of Biosciences University of Birmingham, 2TT 15B, UK	Aug. 2005 to Jan.2006 Rs. 19,93,576/=	Transcription regulation in melibiose operon of <i>E.coli</i>
DBT Overseas Fellow Institute of Membrane & System Biology School of Biological Sciences University of Leeds Carstrang Building, 9JT 2T, Leeds, UK	Jan 2006 to Sep.2006 Rs. 15.2 Lakhs/	A genetic mutation in KCNJ11 causes congenital hyper-insulinism by blocking Sar1-GTPase dependent ER excit of KATP channels in animal cell lines (HEK, tSA, COS, Hela and MSR)
UGC Major Research Project in Colloboration with Dr. G.Archunan	Jan. 2003 – March 2006 Rs. 9.80,800/-	Molecular Detection of alpha 2 U globulin from rat preputial gland : in understanding pheromone carrier function.
UGC Major Research Project Bharathiar University Coimbatore	(2010-2013) Rs. 10,20,600	Studies in Expression, Purification and Micro-sequencing of Sex Pheromone receptor : A feasible approach to develop immuno-contraceptive inhaler
DST Nanomission Project Bharathiar University Coimbatore	(2011-2014) Rs. 60,76,000	Studies on Development of ORMOSIL Nanoparticles based gene transfer System: An innovative approach in Breast Cancer Gene Therapy
UGC - MRP	(2015-2018) Rs. 14,52,500	Tigatzumab antibody conjugated palladium nanoparticle loaded γ -sitosterol delivery to suppress c-MET expression in Breast Carcinoma

PUBLICATIONS OF Dr. S. KANNAN

1. R.Thangam, S.Sundarraj, R.Vivek V.Suresh, S. Sivasubramanian, M.Paulpandi, S.V.Karthick, A.S.Raghavi, **S.Kannan** 2015. Theranostic potentials of multifunctional Chitosan-silver-phycoerythrin nanocomposites against triple negative breast cancer cells. *Royl Soc. Chem.*, 5: 12209-12223.
2. R.Vivek, R.Thangam, V.NipunBabu, C. Rejeeth, S.Sivasubramanian, P.Gunasekaran, K.Muthuchelian, **S. Kannan**. 2014. Multifunctional HER2-Antibody Conjugated Polymeric Nanocarrier-Based Drug Delivery System for Multi-Drug-Resistant Breast Cancer Therapy. *ACS Appl. Mater. Interfaces* 6, 6469–6480.
3. S Rajesh Kumar, S Priyatharshni, VN Babu, D Mangalaraj, C Viswanathan, **S Kannan**, N Ponpandian 2014. Quercetin conjugated superparamagnetic magnetite nanoparticles for *in-vitro* analysis of breast cancer cell lines for chemotherapy applications. *J. Colloid and Interface Science* 436: 234-242.
4. R.Thangam, M.Sathuvan, A.Poongodi, V.Suresh, K.Pazhanichamy, S. Sivasubramanian, N. Kanipandian, N.Ganesan, R.Rengasamy, R.Thirumurugan, **S.Kannan** 2014. Activation of intrinsic apoptotic signaling pathway in cancer cells by *Cymbopogon citratus* polysaccharide fractions. *Carbohydrate Polymers* 107:138-150.
5. S. Rajesh Kumar, M. Paulpandi, M. ManivelRaja, D. Mangalaraj, C. Viswanathan, **S. Kannan** and N. Ponpandian 2014. An *in vitro* analysis of H1N1 viral inhibition using polymer coated superparamagnetic Fe₃O₄ nanoparticles. *Royal Soc. of Chemistry Advances*. 4, 13409-13418.
6. S. Sunarraj, R.Thangam, M.V.Sujitha and **S.Kannan**. 2014. Ligand-conjugated mesoporous silica nanorattles based on enzyme targeted prodrug delivery system for effective lung cancer therapy. *Toxicol. Appl. Pharmacol.* 275(3):232-43.
7. D. Sankarganesh, R. Ramachandran, S.Muniasamy, V.R. Saravanakumar, U. Suriyakalaa, **S. Kannan**, G. Archunan, S. Achiraman, 2014. A correlation of fecal volatiles and steroid hormone profiles with behavioral expression during estrous cycle of goat, *Capra hircus*. *General & Comp. Endocrinol.*, 206: 178-183
8. R. Thangam, V.Suresh S. Dharmaraj S. Malairaj; S. Srinivasan, K. Pazhanichamy G. PraveenKumar **S.Kannan**, P. Gunasekaran, R. Rengasamy, S. Jayanthi. 2014. Induction of ROS Dependent Mitochondria-mediated Intrinsic Apoptosis in MDA-MB-231 cells by Glycoprotein from Codium decorticatum. *Journal of Agricultural and Food Chemistry* (ACS) 62(15):3410-21.
9. R. Thangam, V.Suresh, **S.Kannan**. 2014. Optimized extraction of polysaccharides from *Cymbopogon citratus* and its biological activities. *Intl J Biol Macromolecules*. 65: 415-423.
10. K.Vimala, S.Sundarraj, M.Paulpandi, S.Vengatesan and **S.Kannan** 2014. Green synthesized doxorubicin loaded zinc oxide nanoparticles regulates the Bax and Bcl-2 expression in breast and colon carcinoma. *Proc. Biochem.*, 1: 160-172.

11. R.Vivek, R.Thangam, V.Nipunbabu, T.Ponraj and **S.Kannan**. 2014. Oxaliplatin-Chitosan Nanoparticles Induced Intrinsic Apoptotic Signaling Pathway: A “smart” Drug Delivery System to Breast Cancer Cell Therapy. *Int. J. Biol. Macromolecule*. 65, 289–297.
12. V. Sreevani, K.Shanthi, **S. Kannan**. 2013. Goat Red Blood Cells as precursor for ironoxide nanocrystal synthesis to develop nuclear targeted lung cancer therapy. *Material Res. Bull.*, 48:3164-3171.
13. R. Vivek, V. Nipun Babu, R. Thangam, K.S. Subramanian, **S. Kannan**. 2013. pH-responsive drug delivery of chitosan nanoparticles as Tamoxifen carriers for effective anti-tumor activity in breast cancer cells. *Colloids and Surfaces B: Biointerfaces* 111: 117– 123.
14. M. V.Suresh, C. Anbazhagan, R. Thangam, D. Senthilkumar, N. Senthilkumar, **S. Kannan**, R.Rengasamy, P.Palani. 2013. Stabilization of mitochondrial and microsomal function of fucoidan from *Sargassum plagiophyllum* in diethylnitrosamine induced hepato carcinogenesis. *Carbohydrate Polymers*. 92:1377-1385.
15. R. Thangam, V. Suresh, W.A. Princy, M. Rajkumar, N. SenthilKumar, P. Gunasekaran, R. Rengasamy, C. Anbazhagan, K. Kaveri, **S. Kannan**. 2013. C-Phycocyanin from *Oscillatoria tenuis* exhibited an antioxidant and in vitro antiproliferative activity through induction of apoptosis and G0/G1 cell cycle arrest. *Food Chem.*, 140: 262-272.
16. M.V.Sujitha and **S.Kannan**. 2013. Green synthesis of gold nanoparticles using Citrus fruits aqueous extract and its characterization. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. 102:15-23.
17. V.Suresh, N. Senthilkumar, R.Thangam, M.Rajkumar, C. Anbazhagan, R. Rengasamy, P. Gunasekaran, **S. Kannan**, P. Palani 2013. Separation, purification and preliminary characterization of sulphated polysaccharides from *Sargassum plagiophyllum* and its *in vitro* anticancer and antioxidant activity. *Process Biochem.*, 48: 364-373.
18. Senthilkumar,N, V.Suresh, , R.Thangam, C.Kurinjimalar, G.KavithaP.Murugan, **S.Kannan**, R.Rengasamy, 2013. Isolation and characterization of macromolecular protein R-Phycoerythrin from *Portieria hornemannii*. *Intl. J.Biol. Macromol.*, 55: 150-160.
19. R.Vivek, R. Thangam, K. Muthuchelian, P.Gunasekaran, K. Kaveri and **S. Kannan** 2012. Green biosynthesis of silver nanoparticles from *Annona squamosa* leaf extract and it's *in vitro* cytotoxic effect on MCF-7 cells. *Process Biochem.*, 47: 2405–2410.
20. V.Nipun Babu and **S.Kannan**, 2012. Enhanced delivery of baicalein using cinnamaldehyde cross-linked chitosan nanoparticle inducing apoptosis. *Intl. J.Biol. Macromol.*, 51: 1103-1108.
21. K. Vimala, S. Sundarraj, M.V. Sujitha and **S. Kannan**, 2012. Curtailing the over expression of E2F3 in breast cancer using siRNA (E2F3) based gene silencing. *Arch. Med. Res.* 43: 415-422.

22. C. Rejeeth, **S. Kannan** and K.Muthuchelian 2012. Development of *in vitro* gene delivery system using ORMOSIL nanoparticle: analysis of p53 gene expression in cultured breast cancer cell (MCF-7) ***Cancer Nano.***, 3: 55-63
23. S. Sundarraj, V.Sreevani, R.Thangam, P.Gunasekaran and **S. Kannan** 2012. γ -Sitosterol from *Acacia nilotica* induces G2/M cell cycle arrest and apoptosis through c-Myc suppression in MCF-7 and A549 cells. ***J. Ethnopharmacol.*** 141: 803-809.
24. S.Sundarraj, **S.Kannan**, R. Thangam, P.Gunasekaran, 2012. Effect of the inhibition of cPLA2 α in Non-Small Cell Lung Cancer cells. ***J.Cancer Res.Clin.Oncol.***, 138:827-835.
25. M.Paulpandi, **S.Kannan**, R.Thankgam, K.Kavery, P.Gunasekaran and C.Rejeeth, 2012 In vitro anti-viral effect of β -santalol against influenza viral replication. ***Phytomedicine*** 19:231-235.
26. R. Thangam, P.Gunasekaran, K.Kaveri, G.Sridevi, S.Sundarraj, M.Paulpandi and **S.Kannan**. 2012. A novel disintegrin protein from *Naja naja* venom induces cytotoxicity and apoptosis in human cancer cell lines *in vitro*. ***Proc. Biochem.***, 47: 1243-1249.
27. S. Achiraman, G.Archunan, B.Abirami, P. Kokilavani, U.Suriyakalaa, S. Kamalakkannan, D.Sankar Ganesh, **S. Kannan**, Yoshiaki Habara, R. Sankar (2011). A surge of Squalene in the preputial gland of female rat during estrous cycle: an estrous indicating scent mark. ***Theriogenol.***, 76(9):1676-83.
28. **S. Kannan**, P. Mareeswaran, M.Krishnan, S. Achiraman, Neil Spencer, B. Florence Nitingel 2011, Properties of mouse vomeronasal receptor and assessment of its role in pheromone signaling. ***Rapid Communication in Mass Spectrometry*** 25: 1-9.

PUBLICATION OF BOOKS AND BOOK CHAPTERS

1. **S.Kannan**, M.Krishnan, R.Thirumurugan, S.Achiraman, 2012. **Methods in Molecular Biology**, UVN Publisher, TN, India (ISBN No. 978-81-909345-0-3).
2. **S. Kannan**, M.V.Sujitha, S.Sundarraj and R.Thirumurugan, 2012. **Two Dimensional Electrophoresis in Cancer Proteomics** In: *Gel Electrophoresis- Advanced Techniques*. Edited By S.Magdeldin, Intech-Publisher, Croatia, Germany (ISBN No. 978-953-51-0457-5).
3. M.Paulpandi, K.Kavithaa and **S.Kannan**, 2013. Interaction of Functionalized Iron Nanoparticles with Influenza Virus. LAP LAMBERT Academic Publishing, (ISBN-13: 978-3659415944).
4. R.Vivek, **S. Kannan** and V.Nipunbabu, 2014. Nanoparticles for Cancer Therapy. Scholars' Press, (ISBN-13: 978-3639707601).

Ph.D Thesis submitted /Awarded under the Guidance of Dr. S.Kannan

S. No	Name of the Candidate	Reg. No.	Submission / Awarded Year	Title of the Thesis
1.	B.Florence Nitingel (MKU)	P௩	Dec. 2011 Awarded	Chemical Identification and Characterization of Earthworm (<i>Eudrilus eugeniae</i>) Pheromones: A New Strategy in Earthworm Conservation and Vermicomposting
2.	S.Sundarraj (BU)	C2/14497-2/2009	Dec. 2012 Awarded	Studies on Inhibition of <i>cPLA₂α</i> Activity in Epithelial and Lung Cancer Cells Treated with <i>EGFR</i> Antibody Conjugated Pyrrolidine-2 Loaded Mesoporous Silica Nanoparticles for the Development of Enzyme Targeted Cancer Therapy
3.	M.Paulpandi (BU)	C2/14497-4/2009	Oct 2013 Awarded	Molecular Targeting Of Influenza Viral Replication Using B-Santalol Conjugated Iron Nanoparticles And Pyrimido Quinoline: An Innovation In Antiviral Drug Development
4.	R. Vivek (BU)	C2/14497-5/2009	May 2013 Awarded	Therapeutic targeting of survivin expression in breast cancer Using drug loaded polymeric and silver nanoparticles: an Improved drug delivery in cancer therapy
5.	C.Rejeeth	C2/14497-1/2009	Awarded Aug 2013	Studies On Development Of Silica Based Nanoparticles For P53 Gene Delivery To Target Breast Carcinoma
6.	V.Nipun Babu	C2/13438-1/2010	Awarded Nov, 2014	Activation of intrinsic apoptosis signaling pathway using anticancer loaded chitosan nano carriers: A controlled drug delivery system for breast cancer therapy
7.	M.V.Sujitha	C2/17363-3/2010	Submitted	Clathrin mediated endocytosis of Cisplatin tethered gold nanoparticle to enhance breast cancer specific drug delivery
8.	V. Sreevani	C2/ZOO-1/2011	Awarded	Novel synthesis and functionalization of Iron oxide nano crystal for nuclear targeted drug delivery against lung cancer therapy
9.	K. Vimala	C2/3213/2012	Submitted	Development of Doxorubicin and multi valent siRNA (E2F3) delivery system using biologically reduced Zinc oxide nanoroad (ZnONRs) to target breast cancer cells
10.	R. Thangam	C2/13470/2010	Synopsis Submitted	Targeting Triple Negative Breast Cancer Cells Using Chitosan-Silver-Phycoerythrin Nanocomposites: An Innovation in Molecular Imaging and Cancer Nanotherapy

List of M.Phil. Students did their project under the guidance of Dr. S.Kannan

S. No.	Year	Name of the candidate	Reg. No.	Title of M.Phil Dissertation
1.	June 2000	P. Gangammal ZOOL ANJAC	00Z842	Isolation, Identification & Assessment of Biological functions of Pheromone Compounds Derived From Preputral gland of <i>Mus booduga</i> (L)
2.	June 2000	K.P.S. Tamizh Selvarajan ZOOL ANJAC	00Z936	Histological, gravimetric and sperm parametric analysis in male reproductive organs of albino mice, <i>Mus musculus</i> (L)
3.	April 2001	J.Jagajothi	010312	Studies on factors regulating thermostable alkaline protease production efficiency of <i>Bacillus</i> sp.
4.	April 2002	V. Rajutha MB-ANJAC	02Y781	Production of Xanthan Gum Using <i>Xanthomonas campestris</i> - pv Glycines-AM2 & Mutant XCG- 41 Strain
5.	April 2007	C. Meenambigai	07M004	Molecular cloning of conserved region (303bp) of mammalian cell entry gene (mel-A) <i>Mycobacterium tuberculosis</i>
6.	April 2007	D.Nancilin Sheeba	07M002	Cloning of haemagglutinin(HA) and neuraminidase genes of New Castle Disease Virus (NDV) in chicken embryo
7.	August 2007	P.Sugapriya Menaga (BARD)	06CD28989	Proteomic and Site Directed Mutagenic Studies in DXE ER EXIT Code In Kir 6.2 Gene & ER Export Motif.
8.	Nov. 2007	M. Pachiraj (AU)	066150058	Histomorphology Chemical Characterization & Bio Activity of Pheromonal Compounds of Preputial Gland of Field Mouse
9.	August 2007	P. Raja (BARD)	06CD25512	Proteomics Studies on Melibiose Binding site of mel R Protein Expressed in <i>Ecoli</i> K12 Strain
10.	Sept. 2007	N. Rajendran (AU)	06DCC12768	Studies on Influence on <i>Ficus bungalensis</i> on Female Mouse Reproduction Organ : a Novel Approach In Fertility Regulation In Mammals
11.	Nov. 2007	P. Subbu Lakshmi (PU)	066150194	Molecular Cloning & Expression Analysis of Sulfonyl Urea Receptor-1 (SOR I) In Mammalian Cell Lines : An innovative in Drug Targeting
12.	Sept. 2007	D. Latcham (AU)	06DCC12767	Studies on Effect of <i>Ficus bungalensis</i> on Male Mouse Reproductive System A

13.	August 2007	R. Rajpriya (BARD)	06CD25556	Modern Approach In Reproduction Studies on Heterolocus Expression & Proteomic Analysis of SURI To Target Diabetes
14.	August 2007	P. Sudha (BARD)	06CD25846	Studies On Antibacterial Activity Of Callus Extract Of <i>Cardiospermum halicacabum</i>
15.	Sept. 2007	M. Kanagaraj (PU)	06DCC12769	Studies on Transcription Activator in <i>E. coli</i> & its Inhibitory Role of MELR Protein
16.	Sept 2009	G. Sornalakshmi (BU)	2009R259	Identification and functional characterization of MUP and urinary pheromone compound of mares <i>Equus capalties</i> .
17.	April 2010	M.V Sujitha (SKC-BU)	A9820007	Studies on Development of Human Lung Cancer Biomarker Using cPLA2 Expression
18.	April 2010	P. Devi (SKC-BU)	A10120007	Studies on Development of Breast Cancer Biomarker Using COX 2 Overexpression.
19.	April 2010	V. Pradeepa (SKC-BU)	A9920007	Synthesis and functional characterization of ORMOSIL to target breast cancer.
20.	Sept. 2011	K. Vimala (BU)	2010R352	An <i>in vitro</i> Studies on Identification of Phytochemicals From <i>Prosopis juliflora</i> To Induce Apoptosis And Development Of siRNA(E2F3) Based Gene Silencing Therapy For Breast Cancer
21.	Sept. 2011	V. Sreevani (BU)	2010R354	An <i>in vitro</i> Studies on Identification & Characterization of Polyphenols of <i>Acacia nilotica</i> To Induce Apoptosis In Human Lung Adenocarcinoma Cells.
22.	October 2012	T. Ponraj (BU)	2011R462	Apoptotic Activity of Lectin Isolated From Milipides <i>Gluttones beaults</i> Haemolymph to target Breast Cancer
23.	October 2012	T.A. Mary (BU)	2011R460	Assessment of Antioxidant, Anti proliferative and Apoptotic Activity of Selected Fruits Endocarp to Target Breast and Colon Cancer