

RESUME OF

Prof. S. GANESAN

Founder & Head, Department of Medical Physics
Director (Student Affairs, Since JAN 2006)
Secretary (Ann Gem Science Park School)
Anna University, Chennai 600 025, India

Professional Qualification : M. Sc., M.Phil., Ph.D.

Date of Birth and Age : 27.09.1961 & 51

Professional Experience : Teaching Experience (PG) - 21 years
Research Experience - 25 years

Current area of Research : Medical Physics (Cancer Diagnosis/Treatment)

Research Supervision : Ph.D 11 (11) M.Phil 13 M.Tech 27 M.D.S 9 M.Sc 116

Research Publications : Journals 61
International conferences 42
National conferences 56

Patents

1. US Patent- No. 6,080,584 dated June 27, 2000
2. US Patent- No. 6,091,985 dated July 18, 2000

Sponsored Projects : Rs. 5. 45 Crores

Awards

- *Indra Vasudevan Award* by Indian Association of Biomedical Scientist - for Cancer Research (1991)
- *Best Thesis Award* by Indian Laser Association (1992)
- *Best Paper Award* on Cancer diagnosis by Optical Society of India (1993)
- *BOYSCAST award* by DST to do post doctorate in USA (1994-95)
- *TWAS Research grant* by ICTP Italy (1999)
- *Best Paper Award* on Laser Application in Medicine by Indian Laser Association, 2001

Foreign Assignments: *City University of New York, New York - PDF*
Memorial Kettering Cancer Center, New York - PDF
W.M.Keck Centre for Cellular Imaging, Virginia - Visiting Scientist

RESUME

1. **Name and Designation** : Dr. S. GANESAN, Professor
2. **Date of Birth** : 27.09.1961
3. **Institution** : Anna University Chennai.
4. **Field of Specialization** : Medical Physics (Cancer Diagnosis & Treatment)

5. **Academic Qualifications:**

S.No	Degree	University / Institution	Specialization	Year
1.	B.Sc	Madras University	Physics	1982
2.	M.Sc	Anna University	Medical Physics	1984
3.	M.Phil	Anna University	Laser Medicine	1987
4.	Ph.D	Anna University	Laser Medicine	1991
5.	PDF	CUNY, USA	Optical Biopsy	95-96
6.	Visiting Fellow	University of Virginia	Cellular Imaging	Jan'2000

6. **Additional Qualification** : **Medical Radiation Safety Officer**

7. **Present Position** : **Professor, Anna University Chennai.**

8. **Awards:**

- **Indra Vasudevan Award** by Indian Association of Biomedical Scientist – for Cancer Research (1991)
- **Best Thesis Award** by Indian Laser Association (1992)
- **Best Paper Award** on Cancer diagnosis by Optical Society of India (1993)
- **BOYSCAST award** by DST to do post doctorate in USA (1994-95)
- **TWAS** Research grant *by ICTP Italy*
- **Best Paper Award** on Laser Application in Medicine by Indian Laser Association (2000)

US Patents

- *Method and apparatus for detecting the presence of cancerous and precancerous cells in a smear using native fluorescence spectroscopy* : **Patent No: 6,080,584 dated 27.06.2000**
- *Detection of cancer and precancerous conditions of tissues and/or cells using native fluorescence excitation spectroscopy*: **Patent No: 6,091,985 dated 18.07.2000**

9. Research Guidance:

S.No.	Degree	Completed	Ongoing
1	Ph.D	10	12
2	M.Phil	12	-
3	M.Tech.	25	2
4	M.D.S	8	-
5	M. Sc.	116	-

10. Guide recognition in other Universities

- Maher (Deemed University)
- Sri Ramachandra Medical College and Research Institute.
- MGR Medical University
- University of Madras

11. Title of Ph.D thesis guided.

- Optical Spectroscopic characterization of normal and cancerous tissues – N. Vengadesan
- Photodynamic activity of δ -ALA induced protoporphyrin IX and trithia sapphyrin sulfonates: In-vitro and In-vivo investigation – D. Parmeswaran
- Optical characterization of blood and tissues in cancer and other conditions – S. Madhuri

- Study on dosimetric parameters and treatment evaluation of Stereotactic Radiosurgery procedures – V. Sankaranarayanan
- Study of dosimetry and biological effects of Medium Dose Rate remote afterloading for cervix cancer – A. Kaliyappan
- Monte carlo simulation in dosimetry study of various brachytherapy sources – K .Devan
- Native fluorescence spectroscopic characterization for diagnosis of cervical cancer – K.Muthuvelu
- Dual energy X-Ray absorptiometry(DXA) and quantitative ultrasonography(QUS) in evaluation of Osteoporosis and texture analysis of trabecular bone – R. Karunanithi.
- Study on the influence of different dosimetric parameters for improving the image guided radiation therapy - S.Gopi
- Photodynamic activity of anthra and naphthoquinones from thespesia populnae and ervatamia coroneria plants and some synthetic coumarins - G. Dheva shantha kumari

12. No. of Projects completed as Principal Investigator/ Co-Investigator:

S. No	Completed Projects	Funding Agency	Amount
1.	In vitro and In vivo studies of the Photodynamic Activity on superficial carcinoma Investigator : Dr. S. GANESAN	DAE/NLP	Rs. 17,14,000
2.	Fabrication of Rapid Diagnostic system for cancer tissues Investigator : Dr. S.GANESAN Co-Investigator: Dr. P. ARUNA	AICTE	Rs. 12,00,000
3.	Study of Tissue Optics for Diagnostic and Therapeutic applications Investigator : Dr. S.GANESAN Co-Investigator: Dr. P.ARUNA	ICTP,Italy	Rs. 1,80,000
4.	Photonic Pathology of Neoplastic changes by Native Fluorescence Spectroscopy Investigator : Dr. S. GANESAN Co-Investigator: Dr. P. ARUNA	DST	Rs. 17,44,000

S. No	Completed Projects	Funding Agency	Amount
5.	Investigations on Photodynamic Therapy of cancer in animal models Investigator : Dr. S.GANESAN Co-Investigator: Dr. P. ARUNA	DAE/ BRNS	Rs. 25,10,470
6.	Monte Carlo aided dosimetry for brachytherapy sources Investigator : Dr. P. ARUNA Co-investigator: Dr. S. GANESAN	DAE/ BRNS	Rs. 18,56,189
7.	In vivo radiation dosimetry for diagnostic and therapeutic applications: Theoretical and experimental investigation. Investigator : Dr. S. GANESAN Co-investigators: Dr. P. ARUNA & Dr. J. VELMURUGAN	CSIR	Rs. 13,60,000
8.	Radiological risk assessment of public around Nuclear power reactor from medical exposure. Investigator : Dr. S. GANESAN Co-investigators: Dr. P. ARUNA &Dr. J. VELMURUGAN	DAE	Rs. 16,55,080
9.	Setting up of laser facility for medical and technological applications.(Ongoing) Investigator : Dr. S. GANESAN Co-investigators: Dr. P. ARUNA, Dr. D. KOTEESWARAN & DR. K. MUTHUVELU	DAE/ BRNS	Rs. 4,22,78,000

13. International Conference attended

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S. No.	Country visited	Period	Purpose of visit
1	USA	1995 - 1996	Post-doctoral fellow in CUNY, Newyork,
2	USA	1999	To present the Research papers in BIOS' 1999, California
3	USA	2000	Chairperson in BIOS' 2000 & Visiting fellow in University of Virginia
4	USA	2002	Chairperson in BIOS' 2002, California
5	USA	2011	To present the Research papers in BIOS' 2011, San Francisco

14. Invited Lecturers delivered in Foreign Countries:

S.No.	Institution	Country	Period
1	City College of New York (CUNY)	USA	1995-96
2	University of Virginia	USA	Jan' 2000
3	National Institute for Material Science	JAPAN	2010

15. Professional Activities

- Secretary, AMPI (TN&P Chapter) - 1997-99
- Secretary, AMPAA - 1998 onwards
- Executive Member, ISRP (TN&P Chapter) - 1998-2000
- Executive Member, LSI (TN&P Chapter) - 1999 onwards
- Executive Member (TANCET) - 2006 onwards
- Executive Member (Centre for International Affairs) - 2006 onwards
- Executive Member (University Central Library) - 2006 onwards
- Director (Students Affairs) - 2006 onwards

16. Membership:

- Society of Photo-optical instrumentation engineers (SPIE) - Life member
- Association of Medical Physicists of India (AMPI) - Life member
- Indian Laser Association (ILA) - Life member
- Luminescence Society of India (LSI) - Life member
- Indian Association of Laser Surgery and Medicine(IALSM) - Life member
- Editorial Committee, News Bulletin, Anna University - Member
- Executive Committee, Centre for Affiliation of Institutions, Anna University - Member
- Selection Committee, Institute of Remote Sensing, Anna University - Member

- Planning and Monitoring Board, Rajiv Gandhi College of Engg., Sriperumbudur - Member
- Selection Committee, Faculty Development Training Programmes, Anna University - Member
- Selection Committee for the Recruitment of Project posts, Centre for Water Resources, Anna University - Member
- Selection Committee for Recruitment of Project Associates, Department of Electrical & Electronics Engg., Anna University - Member
- Executive Committee, Alumni Club, Anna University - Member
- Executive Committee, University Library, Anna University - Member
- Executive Committee, Student Affairs, Anna University - Member
- Co-ordination Committee, Tamil Nadu Engineering Admissions (U.G. & P.G.) - Member
- Academic Council / Local Inspection Committee of Directorate General of Shipping, Mumbai - Member
- Convocation Committee, Anna University - Member
- Publicity and Website Committee, 82nd Annual Meeting of Association of Indian Universities, Anna University - Convenor
- Expert Committee, Logistics Centre, Anna University - Member
- Execution of MoU under Consortium of Industries 2008 for UG & PG Programme - Member
- Executive Committee, University Sports Board, Anna University - Member
- Executive Committee, Anna University Sports Board (Affiliated Colleges) - Member
- Executive Committee, Office of the Academic Courses, Anna University - Member
- UGC / AICTE Review Committee AICTE Member- Staff Selection Committee (Southern Regional Office) - Member

17. List of Refresher Courses/conferences/seminars attended:

S.No.	Title	Period	Organized by
1	Recent Trends in Medical Physics	March 25-26, 2010	Anna University Chennai
2	INDO-FRENCH workshop on Vibration Spectroscopy and Imaging	Feb. 2010	ACTREC, Mumbai
3	National laser Symposium	Jan 13-16, 2010	Indian Laser Association
4	National conference on perspectives in lasers and spectroscopy (NCPLAS 2009)	24th- 25 Sep 2009	Women's Christian college
5	International conference on medical physics	Nov 26-29, 2008.	Association of Medical Physicists of India
6	International Workshop on Nanoscience and Technology	13-17 th Feb' 2006	Anna University & ICTP Italy
7	International Seminar on Brachytherapy	Feb' 5, 2005	Indian Brachytherapy Society
8	Refresher Course in Physics	3-7 th Jan' 2005	Pachaiyappa's College
9	National Conference on Signals, Systems and Communication (NCSSC 2005)	1 & 2 June 2005	Dept. of ECE, Anna University
10	UGC Sponsored National Seminar on modern trends in applied spectroscopy NASMTAS 2004	25-26 th March 2004	Annamalai University
11	Laser 2002-Annual laser conference of the Indian Association of Laser Surgery and Medicine (IALSM), Pune	30 th Nov' -1 st Dec' 2002	Master Deenanath Mangeshkar Hospital
12	DAE-BRNS National Laser Symposium 2002, Thiruvananthapuram	Nov' 14-16, 2002	Centre for advanced Technology, Indore
13	BiOS 2002 – Photonics West Symposium, USA	19-25 th Jan' 2002	Society for Optical Engineering
14	14 th World congress of the international society of laser surgery and medicine, Chennai	27-30 th Aug' 2001	International society for laser surgery and medicine
15	Training programme on radiation protection, BARC	17-28 th Apr' 2000	Radiological Physics & Advisory Division, BARC

16	BiOS 2000 – Photonics West Symposium, USA	22-28 th Jan' 2000	International Society for Optical Engineering
17	Symposium on quality assurance of simulator and advances in radiotherapy, CMC, Vellore	26-27 th Nov' 1999	Department of Medical Oncology, Christian Medical College, Vellore
18	XXI Annual conference on Medical Physics, Bangalore	9-11 th Nov'2000	Association of Medical Physicists of India
19	National Laser Symposium – 99	15-17 th Dec'99	School of Physics, University of Hyderabad
20	BiOS 99 – Photonics West Symposium, USA	23-29 th Jan' 99	International Society for Optical Engineering
21	All India workshop/training courses on application of direct methods in crystallography for small/medium sized molecules	1-21 st Dec'98	University of Madras, Chennai
22	School on Materials for Advanced Research and Technology	3-17 th Oct' 97	Anna University, Chennai
23	ISTP Winter school on Desalination	12-24 th Dec' 94	Anna University, Chennai
24	SERC School on chemical and biological application of Lasers and Accelerations	3-15 th Jan' 94	University of Pune, Pune
25	Short term course on Physics of Lasers	14-25 th Sep' 92	IUC-DAE, Indore

PUBLICATIONS:

(i) International/National Journals :

1. R.Rajasekaran, P.Aruna, D.Koteeswaran, L.Padmanabhan, K.Muthuvelu, R.R.Rai, P.Thamilkumar, C.Muralikrishna, **S.Ganesan** “Characterisation and Diagnosis of Cancer by Native Fluorescence Spectroscopy of Human Urine”, *Photochemistry and Photobiology*, 2012 (In Press)
2. Jeyasingh Ebenezar; **Singaravelu Ganesan** ;Prakasarao Aruna ;Radhakrishnan Muralinaidu ; Kannan Renganathan ; Thillai Rajasekaran Saraswathy “Noninvasive fluorescence excitation spectroscopy for the diagnosis of oral neoplasia In vivo” *J. Biomed. Opt.* 17(9), 097007 (Sep 21, 2012). doi:10.1117/1.JBO.17.9.097007.
3. Yuvaraj Manoharan, Qingmin Ji, Tomohiko Yamazaki, Shanmugavel Chinnathambi, Song Chen, **Singaravelu Ganesan**, Jonathan P Hill, Katsuhiko Ariga, Nobutaka Hanagata “Effects of molecular weight of polyethyleneimine on loading of CpG oligodeoxynucleotides onto flake-shell silica nanoparticles for enhanced TLR9-mediated induction of interferon- α ”, *International journal of Nanomedicine* – 2012:7 3625-3635.
4. Shanmugavel Chinnathambi, Song Chen, **Singaravelu Ganesan** and Nobutaka Hanagata “Binding mode of CpG oligodeoxynucleotides to Nanoparticles Regulates Bifurcated Cytokine induction via Toll-like Receptor 9”, *Scientific Reports* 2:534 DOI:10.1038/srep00534.
5. P.M. Venkata Sai, Rajendran Melani, A. Chandrasekar, **S. Ganesan** “The clinical utility of ultrasound histogram analysis in tissue characterization of structures in and around the shoulder joint”, *International Journal of Medical Sciences*, April & October, 2011, 4 (1& 2) 34-38
6. K. Muthuvelu, Sivabalan Shanmugam, Dornadula Koteeswaran, S. Srinivasan, P. Venkatesan, Prakasarao Aruna, **Singaravelu Ganesan**, “Synchronous luminescence spectroscopic characterization of blood elements of normal and patients with cervical cancer”, *Proc. SPIE*, 2011, Vol 7895, 78950M.
7. Sivabalan Shanmugam, Anna Dornadula Koteeswaran, Prakasarao Aruna, **Singaravelu Ganesan**, “Site-dependant redox ratio in healthy oral cavity”, *Proc. SPIE*, 2011, Vol 7895, 78950F.
8. Shanmugam Sivabalan, C. Ponranjini Vedeswari, Sadaksharam Jayachandran, Dornadula Koteeswaran, Chidambaranathan, Pravda, Prakasa Rao Aruna, **Singaravelu Ganesan** “*In vivo* native fluorescence spectroscopy and nicotinamide adenine dinucleotide/flavin adenine dinucleotide reduction and oxidation states of oral submucous fibrosis for chemopreventive drug monitoring”, *Journal of Biomedical Optics*, January/February 2010, 15(1), 017010.
9. S. Sivabalan, C. Ponranjini Vedeswari, S. Jayachandran, D. Koteeswaran, C. Pravda, P. Aruna, **S. Ganesan**, “Diffuse Reflectance Spectroscopy of Pre and Post-Treated Oral Submucous Fibrosis – An In Vivo Study”, *Proc. SPIE*, 2010, Vol 7561, 75610T.
10. Ebenezar Jeyasingh, Aruna Prakashrao, and **Ganesan Singaravelu** “Stokes shift spectroscopy for breast cancer diagnosis” *Proc. SPIE*, 2010, Vol. 7561, 75610B.

11. Jeyasingh Ebenezar, Prakasarao Aruna and **Singaravelu Ganesan**, “Synchronous Fluorescence Spectroscopy for the Detection and Characterization of Cervical Cancers In Vitro”, *Photochemistry and Photobiology*, 2010, 86: 77–86
12. S.Jayachandran, Virender Gombra, **S. Ganesan**, Sivabalan, “Autofluorescence and diffuse reflectance spectroscopic analysis of oral premalignancy and malignancy”, *Journal of Indian academy of oral medicine and radiology*, 2009, Vol 21, Iss 2, pp 55-61.
13. G Solaiappan and **S.Ganesan** “The effect of detector size on beam data measurements for narrow photon beam”, *Reports on practical oncology and radiotherapy*, 2009, Vol 141, pp18-31
14. Manigandan.D, Bharanidharan.G, Devan.k, Aruna.P, **Ganesan. S**, “Dosimetric characteristics of MOSFET dosimeter for clinical electron beams”, *Physica Medica: European Journal of Medical Physics*, 2009, Vol 22, pp 144-147
15. Ramalingam karthigeyan, Basireddy siva reddy, Herald.J.Sherlin , Anuja .N, Patibha ramani, Thiruvengadam Chandrasekar, **S.Ganesan**, Pushpa viswanathan, “Stromal changes in apparently normal mucosa of smokers and pan chewers – a multi – parametric approach”, *Braz J. Oral Sci.*, July/Sep 2008, Vol 7, No 26. pp 1602 – 1608.
16. Solaiappan Gopi, **Singaravelu Ganesan**, P.Aruna, Sanjay S.Supe “Comparison of beam data requirements for MLC commissioning on a TPS”, *Pol J.Med Phys Eng*, 2008 Vol 14(20), 63-77.
17. Karunakaran Sulochana Meena, Prakasa Rao Aruna, Velayutham Murugesan, Thyagarajan Venkataraman, **Singaravelu Ganesan**, “The synthesis and characterization of titanium dioxide nanoparticles as potential photosensitizer in photodynamic therapy” *Indian Journal of Science and Technology*, Vol.1 No.2 (Dec. 2007)
18. R. Karunanidhi,**S. Ganesan**, T.M.R. Panicker, M. Paul Korath, K. Jagadeesan, “Assessment of bone mineral density by DXA and the trabecular microarchitecture of the calcaneum by texture analysis in pre- and postmenopausal women in the evaluation of osteoporosis”, *Journal of Medical Physics*, Vol. 32, No 4, 2007.
19. C S Sureka, C Sunil Sunny, K V Subbaiah, P Aruna and **S Ganesan**, “Dose distribution for endovascular brachytherapy using Ir-192 sources: comparison of Monte Carlo Calculations with radiochromic film measurements”, *Phys.Med.Biol*, 52(2007) 525-537.
20. Devan K, Aruna P, Manigandan D, Bharanidharan G, Subbaiah KV, Sunny CS, **Ganesan S**, “Evaluation of Dosimetric Parameters for various ¹⁹² Ir Brachytherapy Sources Under Unbounded Phantom Geometry by Monte Carlo Simulation”, *Medical Dosimetry*, 2007 Winter;32(4):305-15.

21. V.Masilamani, R.kalaivani, Osamah al-daghri, H.Raja, S.E.Sivanandam, Laskman anand,**S.Ganesan**, Apdul rahman diab, M.al-salhri, Chandramohan, R.Thirunarayanan and K.Vijayasarathi “Optical diagnosis of cancer from blood components” Egyptian Journal of Biophysics, Vol 12, no 1, Jan 2006.

22. Chandra Sekaran Sureka, Chirayath Sunil Sunny, Kamatam Venkata Subbaiah, Prakasarao Aruna and **Singaravelu Ganesan**, “Computation of relative dose distribution and effective transmission around a shielded vaginal cylinder with ¹⁹²Ir HDR source using MCNP4B”, *Med.Phys.*33 (6), 1552-1561,2006.

23. Bharanidharan.G, Manigandan.D, Devan.k, Subramani.V, Gopishankar.N, Ganesh.T, Rath.G.K, Velmurugan.J, Aruna.P, **Ganesan. S**, “Characterization of responses and comparison of calibration factor for commercial MOSFET detectors”, *Medical Dosimetry.* 30(4), 213-218, 2005.

24. G. Gunasekaran, T. Parthiban, C. P. Rajendran, **S. Ganesan** and K. Manimegalai, “Analysis of synovial fluid based upon native fluorescence spectroscopy”, *Indian J. Phys.* 79(2), 207-210 (2005).

25. K. Devan, K. V. Subbaiah, P. Aruna and **S. Ganesan**, “User friendly software for Cs-137 manual after loading intracavitary brachytherapy applications”, *Journal of Medical Physics*, 2003, 28(3).

26. D. Parmeswaran, S. K. Pushpan, A. Srinivasan, M. Ravi Kumar, T. K. Chandrashekar, **S. Ganesan** “In Vitro and In Vivo Investigation on the Photodynamic Activity of Core-modified Expanded Porphyrin-Ammonium Salt of 5, 10, 15, 20 – tetrakis-(meso-sulfonato phynel)-25, 27, 29-trithia Sapphyrin” *Photochemistry and Photobiology*, 2003, 78(5), pp. 487-495.

27. V. Sankaranarayanan, **S. Ganesan**, S. Oommen, T. K. Padmanaban, J. Stumpf, K. Ganapathy, “Comparative radiosurgery between one dedicated stereotactic and one conventional 3-D planning system”, *Physica Medica*, 2003, 19(2), pp. 147-151.

28. V. Sankaranarayanan, **S. Ganesan**, S. Oommen, T. K. Padmanaban, J. Stumpf, K. M. Ayyangar, “Study on dosimetric parameters for Stereotactic Radiosurgery and Intensity-Modulated Radiotherapy”, *Medical Dosimetry*, 2003, 28(2), pp. 85-90.

29. S.Madhuri, N. Vengadesan, P. Aruna, D. Koteeswaran, P.Vengadesan, **S.Ganesan**, “Native fluorescence spectroscopy of blood plasma in the characterization of oral malignancy”.*Photochem. Photobiol.*, 2003, 78(2).

30. D. Parmeswaran, S. Madhuri, P. Aruna, P.K. Gupta and **S. Ganesan**, “In vivo Pharmacokinetics of δ -ALA induced PpIX during pre and post PDT in DMBA treated Skin Carcinogenesis in Swiss mice: A comparison by three-compartment model”, *Photochem. Photobiol.* 2002, 76(1): 81.

31. **S. Ganesan**, J. Ebenezar, S. Hemamalini and P. Aruna, "In-vivo characterization of endogenous porphyrin fluorescence from DMBA- treated Swiss Albino mice skin carcinogenesis for measuring tissue transformation", *SPIE*, Vol. 4613, pp 118-124, 2002.
32. **S. Ganesan**, N. Vengadesan, T. Anbupalam, S. Hemamalini, P. Aruna and P. Karkuzhali, "Native fluorescence spectroscopy of cervical tissues: Classification by different statistical methods", *SPIE*, Vol. 4613, pp 18-23, 2002.
33. N. Vengadesan, T. Anbupalam, S. Hemamalini, J. Ebenezar, K. Muthuvelu, D. Koteeswaran, P. Aruna and **S. Ganesan**, "Characterization of cervical normal and abnormal tissues by Synchronous Luminescence Spectroscopy", *SPIE*, Vol. 4613, pp 13-17, 2002.
34. P. Aruna, S. Hemamalini, J. Ebenezar and **S. Ganesan**, "Ultraviolet emission and excitation fluorescence spectroscopic characterization of DMBA-treated Swiss Albino mice skin carcinogenesis for measuring tissue transformation", *SPIE*, Vol. 4613, pp 1-7, 2002.
35. S. K. Pushpan, S. Venkatraman, V.G. Anand, J. Sankar, D.Parneswaran, **S. Ganesan** and T.K. Chandrasekar, "Porphyrins in photodynamic therapy – A search for ideal photosensitizer", *Current Med. Chem. Anti-Can. Agents*, Vol. 2(2), pp. 187-207, 2002.
36. D.Parneswaran, P. Aruna, P.K. Gupta and **S. Ganesan**, "In-vivo Pharmacokinetics of δ -ALA induced PpIX during Photodynamic Therapy on mice tumor model" *SPIE*, 4433, pp 128-133, 2001
37. N. Vengadesan, K. Muthuvelu, T.Anbupalam, S. Madhuri, D. Parneswaran, P. Aruna, and **S. Ganesan**, "Optical Biopsy of Normal and cancerous cervical tissues by Native Fluorescence Spectroscopy", *SPIE*, Vol. 4261, pp 145-149, 2001.
38. **S. Ganesan**, M. Elangovan and A. Periasamy, "Kinetics and Comparison of δ -Aminolevulinic acid induced endogenous Protoporphyrin-IX in single cell by Steady state and Multiphoton fluorescence imaging", *SPIE*, Vol. 4262, pp 263-267, 2001.
39. D.Koteeswaran, N. Vengadesan, P. Aruna, K. Muthuvelu, S.Bharghavi, V.S.Gowri, **S. Ganesan**, "Characterization of human neoplastic and normal oral tissues by visible excitation and emission fluorescence spectroscopy" *SPIE*, Vol **3917**, pp16-20, 2000.
40. N.Vengadesan, D.Koteeswaran, P. Aruna, K. Muthuvelu, **S. Ganesan**, "Characterization of normal and native oral cancerous tissues by infrared Spectroscopy" *SPIE*, Vol. **3918**, pp 78-82, 2000.
41. S. Manimaran, Sanjay S. Supe, Hema Vaithainathan, **S. Ganesan**, G.N.S. Prasad and R. Asokamani, " Application of LQ +Time Bioeffect Dose Model to Spinal Cord Myelitis in Radiotherapy", *Journal of Med. Phy.*, Vol **24 (4)**, pp 205-209, 1999.
42. **S.Ganesan**, S.Madhuri, V.Anuradha, A.Namasivayam and D.Parneswaran, "Native Fluorescence Characteristics of Blood Plasma During Rat Liver Regeneration", *SPIE*, Vol. **3599** pp 15-19, 1999

43. **S.Ganesan**, S.Madhuri, P.Aruna, S.Suchitra and T.G.Srinivasan, "Native Fluorescence Characterization of Human Liver Abnormalities", *SPIE*, Vol.**3599** pp. 20-24,1999
44. D.Parmeswaran, **S.Ganesan**, P.Ratna and D.Koteeswaran, "Comparison of Bond Strength and Surface morphology of Dental Enamel for acid and Nd-YAG laser etching", *SPIE*, Vol. **3593**, pp.86-90,1999.
45. D.Parmeswaran, **S.Ganesan**, K.Thanigaivelu, Simi Pushpan, A. Srinivasan, M. Ravi Kumar and T.K.Chandrasekar, "Photodynamic Activity on Human Erythrocytes by a newly Synthesized Sensitizer" – Trithia Sapphyrin Sulfonate: A Preliminary Report, *SPIE*, Vol.**3592** pp.94-100,1999
46. S.Madhuri, S.Suchitra, T.G.Srinivasan, P.Aruna and **S.Ganesan**, "Native fluorescence characteristics of blood plasma of normal and liver diseased subjects", *Medical Science Research*, **27**, 635-639, 1999.
47. **S.Ganesan**, P. S. Sacks, Y.Yang, A. Katz, M. Al. Rawi, H. E. Savage, S. P. Schantz and R. R. Alfano, "Native fluorescence spectroscopy of normal and malignant epithelial cells", *Cancer Biophys. Biochem.*, **16**, 365-373,1998.
48. N.Vengadesan, P.Aruna and **S.Ganesan**, "Characterisation of native fluorescence from 7,12-dimethylbenz(a)anthracene treated hamster cheek pouch buccal mucosa for measuring tissue transformation", *British Journal of Cancer*, **77**, 391-395, 1998.
49. D.Parmeswaran, **S.Ganesan**, Nalini Ramamurthy, P.Aruna, V.Veeraganesh and R.R.Alfano, "Native cellular fluorescence characteristics of normal and malignant epithelial cells from human larynx", *SPIE*, Vol.2979, pp 759-764, 1997.
50. S.Madhuri, P.Aruna, M.Summiya Bibi, D.Koteeswaran and **S.Ganesan**, "Ultraviolet fluorescence spectroscopy of blood plasma in the discrimination of cancer from normal", *SPIE*, Vol.2982, pp 41-45, 1997.
51. **S.Ganesan**, V.Masilamani et al., "Autofluorescence of porphyrin as tumor marker for carcinoma of cancer", *SPIE*, Vol. 2679, pp.162-164, 1996.
52. A.Katz, **S.Ganesan** et al., "Optical biopsy fiber based fluorescence spectroscopy instrumentation", *SPIE*, Vol.2679, pp.118-123, 1996.
53. N.Zhadin, Y.Yang, **S.Ganesan**, N.Ockman and R.R.Alfano, "Enhancement of the fluorescence diagnosis method of tissues using diffuse reflectance and the analysis of oxygenation state", *SPIE*, Vol.2679, pp.142-148, 1996.
54. J.Sivaraman, K.Subramanian, **S.Ganesan** and V.T. Ramakrishnan, "Spectroscopic studies on the interaction of three partially hydrogenated Acridine dyes with calf thymus DNA and their structural comparison", *J.Biol.Stru. & Dyna.*, Vol.**12**, pp.115-126, 1995.

55. **S.Ganesan** and V.Masilamani, “Photodynamic activity on human epithelial larynx carcinoma Hep-2 by argon ion laser”, *J.Med.Sci.Res.*, Vol.**22**, pp.849-851, 1994.
56. V.Masilamani, **S.Ganesan**, and D.Koteeswaran, “Killing the killers with care (popular article)”, *Science express*, Sep.1990.
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2. K.Manirahulan, **S.Ganesan**, Reji Philip, P.Aruna "Nonlinear optical studies on TiO₂-Au nanocomposites synthesized by sol-gel technique" 19th National Laser Symposium held at Raja Ramanna Centre for Advanced Technology (RRCAT), Indore, during December 1-4, 2010.
3. S. Sivabalan, S. Shanmugavel, C. Ponranjini Vedeswari, S. Jayachandran, D. Koteeswaran, C. Pravda, P. Aruna, **S. Ganesan**, “ invivo characterization of oral submucous fibrosis by native fluorescence spectroscopy”, National laser Symphosium, Jan 13-16, 2010, BARC, Mumbai.
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5. K. Maniragulan, G. Vinitha, P. Aruna and **S. Ganesan**, “Investigation of effect of silica coating on TiO₂ nanoparticles for optical limiting applications”, National conference on perspectives in lasers and spectroscopy (NCPLAS 2009) during 24th- 25th September 2009.
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11. B. Kiruthiga, S. S. Arun Prasanna and **S.Ganesan**, “Photodynamic inactivation of staphylococcus epidermidis with ALA induced PPIX”, DAE-BRNS national laser symposium (NLS-4), BARC, Mumbai, pp 668-670, Jan 10-13, 2005.
12. V. Saikumar, **S. Ganesan**, “Evaluation of photon dosimetry for photodynamic therapy applications using Monte Carlo simulation”, National Conference on Signals, Systems and Communication (NCSSC), June 1st and 2nd, 2005.
13. S. Etti, G. Shanmugam, **S. Ganesan**, M.N. Ponnusamy, “Fluorescence spectroscopic characterization of toluidine blue with DNA”, UGC sponsored national seminar on modern trends in applied spectroscopy (NASMTAS-2004), March 25th and 26th, 2004.
14. **S. Ganesan**, D. Koteeswaran, R. Malarvizhi, S. Jayachandran, M. Selvi sirumalar, “Caries detection using laser induced fluorescence”, UGC sponsored national seminar on modern trends in applied spectroscopy (NASMTAS-2004), March 25th and 26th, 2004.
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24. D. Parmeswaran, F. Leibman R. Sroka, R. Baumgartner, P. Aruna, and **S. Ganesan** “Fluorescence lifetime Imaging (FLIM) of ALA Induced PpIX at cellular level” National Laser Symposium, CAT, Indore, Dec 19- 21, 2001.
25. D. Parmeswaran, R. Sroka, R. Baumgartner, P. Aruna, and **S. Ganesan** “Wavelength dependent photodynamic damage with ALA induced PpIX: An in vitro Investigation” National Laser Symposium, CAT, Indore, Dec 19- 21, 2001.
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