
September , 2009

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(Date of this version)

CURRICULUM VITAE

Current Position

Postdoctoral Fellow

Oct 2008 -

Johns Hopkins University,
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Citizenship

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Education

All India Institute of Medical Sciences, Ph.D. (Medical Physics)
Department of Nuclear Medicine, Jan 2004- Jun 2007
New Delhi, India

Anna University, M.Sc. (Medical Physics)
Department of Physics, Aug 2000- Apr 2002
Chennai, India

University of Madras, B.Sc. (Physics)
Chennai, India Aug 1997 – Apr 2000

Positions and Appointments

All India Institute of Medical Sciences,
New Delhi, India

Senior Demonstrator (Med Phys)
Medical Physics Unit
Aug 2008 – Oct 2008

Geneva University Hospital,
Geneva, Switzerland

ISBRI Visiting Fellow
Dept. of Nuclear Medicine
Sep 2007 – Feb 2008

All India Institute of Medical Sciences,
New Delhi, India

Senior Demonstrator (Med Phys)
Radiotherapy
July 2007 – Dec 2007

All India Institute of Medical Sciences,
New Delhi, India

Senior Research Fellow
Dept. of Nuclear Medicine
Jul 2005 – Jul 2007

All India Institute of Medical Sciences,
New Delhi, India

Junior Research Fellow
Dept. of Nuclear Medicine
Jun 2003 – Jun 2005

Kidwai Memorial Institute of Oncology,
Bangalore, India

Lecturer (Ad Hoc)
Dept. of Radiation Physics
May 2003 – Jun 2003

Kidwai Memorial Institute of Oncology,
Bangalore, India

Resident Medical Physicist
Dept. of Radiation Physics
Sep 2002 – May 2003

Awards and Honors

Indo-Swiss bilateral research initiative (ISBRI) postdoctoral fellowship: Sep 2007- Feb 2008 (Division of Nuclear Medicine, Geneva University hospital, Geneva, Switzerland)

Scientific and Medical Societies

Life Member, Association of Medical Physicists of India (AMPI)
Life Member, Indian Society for Radiation Biology (ISRB)

PUBLICATIONS LIST

PEER-REVIEWED INTERNATIONAL JOURNAL PUBLICATIONS

1. **Senthamizhchelvan S**, Pant G S, Rath G K, Julka P K, Nair O, Joshi R C, Malhotra A, Pandey R M. Biodosimetry using chromosome aberrations in human lymphocytes. *Radiat Prot Dosim*, 123(2):241-245, 2007.
2. **Senthamizhchelvan S**, Pant G S, Rath G K, Julka P K, Nair O, Prabhakar R, Malhotra A. Biological estimation of dose in hemi-body irradiation of cancer patients by cytogenetic analysis. *Health Phys*, 94(2):112-117, 2008.
3. Prabhakar R, Rath GK, Julka PK, Ganesh T, Haresh KP, Joshi RC, **Senthamizhchelvan S**, Thulkar S, Pant GS. Simulation of Dose to Surrounding Normal Structures in Tangential Breast Radiotherapy Due to Setup Error. *Med Dosim*, 33(1):81-85, 2008.
4. Vees H, **Senthamizhchelvan S**, Ratib O, Miralbell R, Weber DC, and Zaidi H Assessment of various strategies for delineation of target volumes in ¹⁸F-FET PET studies of high-grade glioma patients. *Eur J Nucl Med Mol Imaging*, 36(2):182-9, 2009.
5. **Senthamizhchelvan S**, Pant G S, Rath G K, Julka P K, Nair O. Biodosimetry using micronucleus assay in acute partial body therapeutic irradiation. *Phys Med*, 25(2):82-7, 2009.
6. Karthikeyan G, **Senthamizhchelvan S**. Where should surgeons place the graft on the left anterior descending artery? A theoretical basis for change. *Cardiovasc Revasc Med*, 10(2):117-20, 2009.
7. Wang H, Vees H, Miralbell R, Wissmeyer M, Steiner C, Ratib O, **Senthamizhchelvan S** and Zaidi H "18F-choline PET-based target volume delineation techniques for partial prostate reirradiation in local recurrent prostate cancer" **Radiother Oncol** (2009) *in press*

PEER-REVIEWED INDIAN JOURNAL PUBLICATIONS

1. Pant G S, **Senthamizhchelvan S**. Radiation Exposure to Staff in a PET/CT Facility. *Indian J Nucl Med*, 21(4): 100-103, 2006.
2. Pant G S, **Senthamizhchelvan S**. Initial experience with a 11 MeV self-shielded medical cyclotron on operation and radiation safety. *J Med Phys*, 32(3): 118-123, 2007

REFEREED CONFERENCE PROCEEDINGS

1. **Senthamizhchelvan S.**, G.S. Pant, A. Malhotra, P.K. Julka, Omana Nair, R.C. Joshi, G.K. Rath, M. Panedy. Micronuclei in human lymphocytes: Validation of Co-60 gamma ray dose-response curve in hemi-body irradiation. **Proceedings of the 14th International conference of Medical Physics, Nuremberg, Germany, September 14-17, 2005**, Biomedizinische Technik Vol. 50, Suppl, part 1, pp 131-132.
2. Pant G.S., **Senthamizhchelvan S**. Medical cyclotron: Basic Principles. **Proceedings of the International symposium on advances in diagnostic medical physics, New Delhi, India, July 13-16, 2006**. Himalaya Publishing House, Mumbai, 2006: 359-365.

BOOK CHAPTERS

1. Pant G.S., **Senthamizhchelvan S**. Positron emission tomography: physical principles, instrumentation and performance evaluation, In "Basic Physics of Nuclear Medicine", Editor G.S. Pant (Himalaya Publishing House, Mumbai, 2008)

2. Pant G.S., **Senthamizhchelvan S.** Medical Cyclotron: Basic Principles and Operation, In "Basic Physics of Nuclear Medicine", Editor G.S. Pant (Himalaya Publishing House, Mumbai, 2008)
3. Pant G.S., **Senthamizhchelvan S.** Basics of radiobiology, In "Basic Physics of Nuclear Medicine", Editor G.S. Pant (Himalaya Publishing House, Mumbai, 2008)

PUBLISHED ABSTRACTS

1. **Senthamizhchelvan S,** Pant GS, Malhotra A, Rath GK, Julka PK, Nair O, Joshi RC and Prabhakar R, Biodosimetry for Co-60 gamma rays using micronuclei assay. J Med Phys, 2004, 29(3), 191-192.
2. Kumar R, Pant GS, **Senthamizhchelvan S,** Malhotra A. Radiation levels in and around PET/CT facility at AIIMS, Indian J Nucl Med, 2005, 20(4), 97-98
3. **Senthamizhchelvan S,** Pant GS, Bal CS, Malhotra A, Julka PK, Nair O, Rath GK., Biological dosimetry in patients receiving therapeutic dose of I-131. Indian J Nucl Med, 2005, 20(4), 128.
4. Pant GS, Senthamizhchelvan S, Acceptance and quality control tests in PET/CT scanner, J Med Phys, 2005;30(4),209-210.
5. **Senthamizhchelvan S,** Pant GS, Malhotra A, Rath GK, Julka PK, Nair O, Joshi RC and Prabhakar R, In vitro dose response curve for chromosomal aberrations induced in human lymphocytes by Co-60 gamma radiation. J Med Phys, 2005;30(4),222-223.
6. **Senthamizhchelvan S,** Pant GS, Malhotra A, Nair O, Julka PK, Rath GK, Pandey M, Prabhakar R, Joshi RC. Chromosomal aberration analysis in hemibody irradiation. J Med Phys, 2005;30(4),223-224.
7. **Senthamizhchelvan S,** Pant GS, Bal CS, Malhotra A, Julka PK, Nair O, Rath GK. Incidence of Micronuclei as Biological Dosimetry in Differentiated Thyroid Carcinoma Patients Treated With 131I. World Journal of Nuclear Medicine, 2005 4(1), S34-S35.
8. **Senthamizhchelvan S,** Pant GS, Nair O, Julka PK, Rath GK, Pandey M, Prabhakar R, Haresh KP. Biological Dosimetry in Cancer Patients undergoing partial body irradiation using MN assay. J Med Phys, 2006; 31(3), 138.
9. Pant GS, **Senthamizhchelvan S.** Radiation Safety in a Cyclotron PET/CT facility. J Med Phys, 2006; 31(3), 184.
10. Pant GS, Nair O, **Senthamizhchelvan S,** Bal CS, Julka PK, Rath GK. Incidence of micronuclei in thyroid patients treated with therapeutic dose of radioiodine (I-131). J Med Phys, 2006; 31(3), 213.
11. Prabhakar R., Ganesh T., Haresh K.P., Rath G.K., **Senthamizhchelvan S.,** Joshi R.C.. Impact of Patient Setup Error in the Treatment of Head and Neck Cancer With Intensity Modulated Radiation Therapy. Int J Radiat Oncol Bio Phys, Volume 69, Issue 3, Supplement 1, Proceedings of the American Society for Therapeutic Radiology and Oncology 49th Annual Meeting, 49th Annual Meeting of the American Society for Therapeutic Radiology and Oncology, 1 November 2007, Page S462.
12. Haresh K. P., Julka P. K., Prabhakar R., **Senthamizhchelvan S.,** Seth A., Rath G. K.. A Comparative Analysis of Quality of Life of Patients Treated by Radical Cystectomy and Sigmoid Neobladder Versus Chemoradiation in Muscle Invasive Cancer of Urinary Bladder. Int J Radiat Oncol Bio Phys, Volume 69, Issue 3, Supplement 1, Proceedings of the American Society for Therapeutic Radiology and Oncology 49th Annual Meeting, 49th Annual Meeting of the American Society for Therapeutic Radiology and Oncology, 1 November 2007, Page S580.

13. **Senthamizhchelvan S**, Zaidi H. "Adaptive thresholding for PET/CT-based tumour volume delineation" 16th International Conference of Medical Physics (ICMP-08), Dubai, United Arab Emirates, April 14-16, 2008. Proceedings of the ICMP 2008 Dubai, Page No.47.
14. Veas H, **Senthamizhchelvan S**, Miralbell R, Weber DC, Ratib O and Zaidi H Assessment of various strategies for delineation of target volumes in 18F-FET PET studies of high-grade glioma patients. *Radiother Oncol*, vol 88, Supplement 2, ESTRO annual meeting proceedings, Göteborg, Sweden, 14-18 September 2008, Page S208.
15. **Senthamizhchelvan S**, Kumar A, Kumar R, Sellam K, Seenu V, Gupta SD, Patel CD, Malhotra A, Mehta SN. 18F-FDG-PET Metabolic Tumour Volume as a Predictor of Early Response to Neo-Adjuvant Chemotherapy in Locally Advanced Breast Cancer Patients. AOFNMB meeting, Oct 31- Nov 4, New Delhi, India, Page 9.
16. **Senthamizhchelvan S**, Hobbs RF, Baechler S, Song H, He B, Frey EC, Schwartz CL, Loeb DM, Sgouros G. Patient specific 3-D Radiobiological Dosimetry (3D-RD) for 153Sm-EDTMP therapy of osteosarcoma. 56th Annual meeting of the Society of Nuclear Medicine, Toronto, Canada, June 13-17, 2009, *J Nucl Med Vol 50*, Supplement 2, 71P.
17. Hobbs RF, Baechler S, **Senthamizhchelvan S**, Song H, He B, Frey EC, Wahl RL, Jacene H, Sgouros G. Aortic wall modeling/dosimetry in lymphoma patients treated with radioimmunotherapy. 56th Annual meeting of the Society of Nuclear Medicine, Toronto, Canada, June 13-17, 2009, *J Nucl Med Vol 50*, Supplement 2, 163P.
18. Kumar R, Kumar A, **Senthamizhchelvan S**, Kumari A, Malhotra A. 18F-FDG-PET metabolic tumor volume as a predictor of early response to neo-adjuvant chemotherapy in locally advanced breast cancer patients. 56th Annual meeting of the Society of Nuclear Medicine, Toronto, Canada, June 13-17, 2009, *J Nucl Med Vol 50*, Supplement 2, 59P.
19. Wang H, Veas H, Miralbell R, Wissmeyer M, Steiner C, Ratib O, **Senthamizhchelvan S** and Zaidi H. 18F-choline PET-based target volume delineation techniques for partial prostate reirradiation in local recurrent prostate cancer. Oral presentation at the European Association of Nuclear Medicine Annual Congress, 10-14 October 2009, Barcelona, Spain. *Eur J Nucl Med Mol Imaging*, Vol 36, Suppl. (2009) in press