

**NATARAJAN ARAVINDAN MSc., MPhil., Ph.D., C.C.A**

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**PRESENT TITLE AND AFFILIATION**

Assistant Professor of Radiation Biology	Department of Radiation Oncology, University of Oklahoma Health Sciences Center, Oklahoma City, OK
Assistant Professor of Anesthesiology (Adjunct Appointment)	Department of Anesthesiology, University of Oklahoma Health Sciences Center, Oklahoma City, OK
Assistant Professor of Pathology (Adjunct Appointment)	Department of Pathology, University of Oklahoma Health Sciences Center, Oklahoma City, OK
Associate Member Experimental Therapeutics/Cancer Biology	Stephenson Cancer Center, Oklahoma City, OK
Faculty (Level 4)	Graduate College, University of Oklahoma Health Sciences Center, Oklahoma City, OK
Faculty Member	Reynolds Oklahoma Center on Aging, Oklahoma City, OK
Faculty Member	Oklahoma Tobacco Research Center (OTRC), Oklahoma City, OK
Faculty Member	Oklahoma Center for Neuroscience (OCNS), Oklahoma City, OK

**CONTACT DETAILS**

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**EDUCATION AND TRAINING**

<b>Ph.D</b>	2000	Andhra University, Visakhapatnam, India	Zoology (Microbiology)
<b>M.Phil</b>	1995	Pondicherry University, Pondicherry, India	Zoology (Pathology)
<b>C.C.A</b>	1995	A.M. Computer Center, Pondicherry, India	Computer Applications
<b>M.Sc</b>	1994	Pondicherry University, Pondicherry, India	Zoology (Cell, Molecular Biology & Biophysics; Genetics & Biostatistics; Embryology; General & Comparative physiology, Biochemistry; Endocrinology, Reproductive Biology; Evolution, Palaeontology; Ethology, Conservation Biology; Ecology etc).
<b>B.Sc</b>	1992	Pondicherry University, Pondicherry, India	Zoology (Cell Biology, Genetics; Physiology; Ecology; Embryology, Evolution; Invertebrata, Chordata, Entomology)

**Post-Doctoral Training**

2001-2005	Critical Care Medicine Anesthesiology	Department of Critical Care, Division of Anesthesiology and Pain Medicine, UT M.D. Anderson Cancer Center, Houston, TX
2000-2001	Radiation Biology/Oncology	Radiation Biology Division, Department of Radiation Oncology, University of Texas Health Science Center at San Antonio, TX

**Pre-Doctoral/Doctoral Training**

1999-2000	Research Associate	Protozoology and Clinical Pathology Division, Department of Zoology, Andhra University, Visakhapatnam, AP, India
1996-1999	Senior Research Fellow of ICAR	Protozoology and Clinical Pathology Division, Department of Zoology, Andhra University, Visakhapatnam, AP, India
1994-1995	Pre-Doctoral Research Fellow	Department of Zoology, Kanchi Maamunivar Center for Post Graduation Studies, Pondicherry University, Pondicherry, India.

**PROFESSIONAL EXPERIENCE**

<b><u>Year</u></b>	<b><u>Title</u></b>	<b><u>Institution/Location</u></b>
<b><i>Academic:</i></b>		
2006-To date	Assistant Professor of Radiation Biology	Department of Radiation Oncology, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA
2006-To date	Course Director	Radiation Biology to Radiation Oncology Medical Residents, Department of Radiation Oncology, OU Health Sciences Center, Oklahoma City, OK.
2006-To date	Adjunct Assistant Professor	Department of Anesthesiology, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA
2007-To date	Adjunct Assistant Professor	Department of Pathology, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA
2007-To date	Faculty Member (Level 4)	Graduate College, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA
2007-2011	Member	Developmental Therapeutics and, Cancer Biology Program, Stephenson's Cancer Center, Oklahoma City, OK, USA
2009-To date	Faculty Member	Oklahoma Center for Neuroscience (OCNS), Oklahoma City, OK, USA
2009-To date	Faculty Member	Reynolds Oklahoma Center on Aging, Oklahoma City, OK, USA
2009-To date	Faculty Member	Oklahoma Tobacco Research Center (OTRC), Oklahoma City, OK, USA
2005-2006	Instructor	Department of Critical Care, Division of Anesthesiology, University of Texas M.D. Anderson Cancer Center, Houston, TX, USA
<b><i>Administrative:</i></b>		
2007-To date	Board Member	Pathology Graduate committee, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA

**SCHOLARSHIP****Research Funding****Ongoing Grants:**

✚ **Project #:** NIH COBRE 1P20GM103639-01\*  
**Funding Agency:** National Institute of Health  
**Title:** Targeted immunoliposomal EF24 against Rel orchestrated Neuroblastoma relapse and metastasis  
**Period:** 02/2013 - 01/2018  
**Role:** PJI (20%) (PI – Danny Dhanasekaran)  
**PJI Direct Costs:** 150,000/Yr.  
***\*Mentored/Mentoring Postdoctoral fellow and Associate Research Fellow***

✚ **Project #:** Experimental Therapeutics Seed Grant  
**Funding Agency:** Stephenson Cancer Center – Experimental Therapeutics Program  
**Title:** Molecular reprogramming and radio-resistance in solid tumors  
**Period:** 02/2015 - 01/2016  
**Role:** Co-PI (20%) (Co-PI – Anupama Munshi)  
**Total Costs:** 50,000.00

**Grants Pending:**

✚ **Project #:** NIH 1R01CA200724-01– RESEARCH PROJECT GRANT (PARENT R01)\*  
**Agency:** National Institute of Health  
**Title:** RD3-Regulation in Neuroblastoma Progression to High-Risk Metastatic Disease  
**Period:** 09/2015 – 08/2020  
**Role:** PI (50%)  
**Total Costs:** 1, 850,000.00  
***\*Involves Mentoring of Postdoctoral fellows***

✚ **Project #:** NSBRI/NASA-NNJ14ZSA001N-NSBRI “Research and Technology Development to Support Crew Health and Performance in Space Exploration Missions\*  
**Agency:** NASA  
**Title:** Dysregulation of Lipid Metabolism by HZE ion-induced Oxidative Stress  
**Period:** 09/2015 – 09/2018  
**Role:** PI (50%)  
**Total Costs:** 800,000.00  
***\*Involves Mentoring of Postdoctoral fellows***

✚ **Project #:** NASA NNJ13ZSA001N - Ground-Based Studies in Space Radiobiology\*  
**Agency:** NASA  
**Title:** Altered post translational modification and coordinated regulation of k-ras and ER-alpha in HZE ion-induced carcinogenesis  
**Period:** 09/2016 – 09/2019  
**Role:** PI (20%)  
**Total Costs:** 1,189,462.00  
***\*Involves Mentoring of Postdoctoral fellows***

✚ **Project #:** NIH 1 R01 CA169044-01A1 – RESEARCH PROJECT GRANT (PARENT R01)  
**Agency:** National Institute of Health  
**Title:** Targeted immunoliposomal EF24 against neuroblastoma relapse  
**Period:** (Pending Resubmission)  
**Role:** PI  
**Total Costs:** 1, 867, 779.00

- ✚ **Project #:** NIH (R21)– PA-11- 297– Pilot studies in Pancreatic Cancer (R21)  
**Agency:** National Institute of Health  
**Title:** Dietary bioactives targeting stem cell EMT and self-renewal: Chemoprevention of pancreatic cancer  
**Period:** *(Pending Resubmission)*  
**Role:** PI  
**Total Costs:** 407,000.00
- ✚ **Project #:** NIH 1R01 CA151165-01  
**Funding Agency:** National Institute of Health  
**Title:** Tumor targeted Genistein against tumor progression and metastasis  
**Period:** *(Pending Resubmission)*  
**Role:** PI  
**Total Costs:** 1,663,110.00
- ✚ **Project #:** NIH 1R01 CA151712-01  
**Funding Agency:** National Institute of Health  
**Title:** Phytochemicals Synergy against Breast Cancer  
**Period:** *(Pending Resubmission)*  
**Role:** PI  
**Total Costs:** 1,663,110.00

#### Completed Grants:

- ✚ **Project #:** OUBC-SFIR 2012  
**Agency:** UBC Seed funding for interdisciplinary Research  
**Title:** Functional Imaging Planning and treatment for necrotic tumors  
**Period:** 04/2012 - 04/2013  
**Role:** Collaborator (5%) (PI - Dee Wu)  
**Total Costs:** 40,000.00
- ✚ **Project #:** BA/CSSP Research Grants 2011\*  
**Funding Agency:** The Center for Special Studies and Programs  
**Title:** Radioprotective effect of date fruit extract  
**Period:** 07/2013 - 06/2014  
**Role:** Mentor (PI - Marwa S. Abou El-eneen)  
**Total Costs:** EGP 176,640  
*\*Mentored Junior Research Faculty*
- ✚ **Funding Agency:** Soy Health Research Program  
**Title:** Genistein in preventing Rel protein regulation dependent radioresistance and tumor recurrence  
**Period:** 07/2009 - 06/2010  
**Role:** PI (20%)  
**Total Costs:** 10,000.00
- ✚ **Funding Agency:** Presbyterian Health Foundation (PHF)  
**Title:** Functional Mechanism of Radiation induced Inflammation  
**Period:** 06/2008 - 05/2009  
**Role:** PI (20%)  
**Total Costs:** 30,000.00
- ✚ **Project #:** ACS- IRG-05-066-01  
**Funding Agency:** American Cancer Society  
**Title:** Transcriptional regulation in induced-radioresistance and tumor relapse  
**Period:** 07/2007 - 06/2008  
**Role:** PI (20%)  
**Total Costs:** 20,000.00

✚ **Project #:** Radiation Oncology Research Development – Start-Up funds\*  
**Funding Agency:** OU College of Medicine  
**Period:** 06/2006 - 06/2009  
**Role:** PI (50%)  
**Total Costs:** 250,000.00  
*\*Mentored Postdoctoral fellows, Graduate Student and Graduate Research Assistant*

✚ **Funding Agency:** Fleming & Davenport award, Texas Medical Center, Houston, Texas  
**Title:** Genetic variation and post-operative complications  
**Period:** 06/2005 - 05/2006  
**Role:** PI (20%)  
**Total Costs:** 15,000.00

### Scholarly Activities and Creative Achievements

✚ **Project #:** Summer Research Scholars Program\*  
**Funding Agency:** Stephenson Cancer Center  
**Title:** RD3-Guanylyl Cyclases interaction in neuroblastoma  
**Period:** 05/2015 - 07/2015  
**Role:** Mentor  
*\*Mentored College Student*

✚ **Project #:** Summer Research Scholars Program\*  
**Funding Agency:** Stephenson Cancer Center  
**Title:** Role of HDACs in neuroblastoma evolution  
**Period:** 05/2015 - 07/2015  
**Role:** Mentor  
*\*Mentored College Student*

✚ **Project #:** Summer Research Scholars Program\*  
**Funding Agency:** Stephenson Cancer Center  
**Title:** RD3 loss driven miRNAs alterations switches favorable neuroblastoma to high-risk aggressive metastatic disease  
**Period:** 06/2014 - 07/2014  
**Role:** Mentor  
*\*Mentored College Student*

✚ **Project #:** Summer Research Scholars Program\*  
**Funding Agency:** Stephenson Cancer Center  
**Title:** Hyperthermia mediated NO in IR- associated EMT regulation  
**Period:** 06/2013 - 09/2013  
**Role:** Mentor  
*\*Mentored College Student*

✚ **Agency/Program:** *Mentored Research Experience for Oklahoma School of Science and Math Students \**  
**Title:** Progressive neuroblastoma stem cell phenotyping  
**Period:** 06/2013 - 01/2014  
**Role:** Mentor  
*\*Mentored School Student*

✚ **Project #:** Summer Research Scholars Program\*  
**Funding Agency:** Stephenson Cancer Center  
**Title:** Rel regulated MMP9 signaling  
**Period:** 07/2012 - 07/2012  
**Role:** Mentor  
*\*Mentored College Student*

- ✚ **Agency/Program:** *Mentored Research Experience for Oklahoma School of Science and Math Students \**  
**Title:** Turmeric products in radioprotection  
**Period:** 06/2012 - 01/2012  
**Role:** Mentor  
*\*Mentored School Student*
- ✚ **Project #:** Summer Research Scholars Program\*  
**Funding Agency:** Stephenson Cancer Center  
**Period:** 05/2011 - 07/2011  
**Role:** Mentor  
*\*Mentored two College Students*
- ✚ **Project #:** Summer Research Scholars Program\*  
**Funding Agency:** Stephenson Cancer Center  
**Period:** 05/2010 - 07/2010  
**Role:** Mentor  
*\*Mentored College Student*
- ✚ **Funding Agency:** OUHSC - The Summer Undergraduate Research Experience (SURE) Program  
**Title:** Abscopal Effects of Low-LET radiation  
**Period:** 05/2010 - 07/2010  
**Role:** Mentor  
*\*Mentored College Student*
- ✚ **Project #:** NIH 261HS300014\*  
**Funding Agency:** NIH-OU-Native American Research Center for Health (NARCH) program  
**Title:** Inflammatory transcriptional response after low-dose radiation  
**Period:** 05/2009 - 07/2009  
**Role:** Mentor  
*\*Mentored College Student*
- ✚ **Funding Agency:** NIH-IDEA Network of Biomedical Research Excellence Program\*  
**Title:** NFκB Mediated Survival Advantage and Clonal Expansion of Human Neuroblastoma Cells after Therapeutic Doses of Radiation Exposure  
**Period:** 05/2007 - 07/2007  
**Role:** Mentor  
*\*Mentored College Student*
- ✚ **Agency/Program:** *Mentored Research Experience for Oklahoma School of Science and Math Students \**  
**Title:** Hyperthermia induced apoptosis  
**Period:** 11/2006 - 03/2007  
**Role:** Mentor  
*\*Mentored School Student*

## PUBLICATIONS

### PEER REVIEWED

#### In Press:

1. Khan FH, Ramraj S, Pandian V, Aravindan S, Herman TS, Natarajan M, **Aravindan N\***. 2015. Acquired Genetic Alterations in Tumor Cells Dictate the Development of High-Risk Neuroblastoma and Clinical Outcomes. *BMC-Cancer*. (JIF 3.40). *\*Indicates Mentor.*
2. Khan FH, Pandian V, Ramraj S, Aravindan S, Herman TS, Natarajan M, **Aravindan N\***. 2015. Reorganization of metastamiRs in the evolution of metastatic aggressive high-risk neuroblastoma. *BMC Genomics*. (JIF 4.500). *\*Indicates Mentor.*

- Aravindan S, Ramraj S, Natarajan M, Herman TS, Somasundaram ST and **Aravindan N\***. 2015. Novel adjuvants from brown-algae target radiotherapy-coordinated EMT and stemness-maintenance in residual pancreatic cancer. *BMC Stem Cell Res & Ther.* (JIF 5.487). \*Indicates Mentor.

**Published:**

- Pandian V, Ramraj S, Khan FH, Azim T and **Aravindan N\***. 2015. Metastatic neuroblastoma cancer stem cells exhibit flexible plasticity and adaptive stemness signaling. *BMC – Stem Cell Research and Therapy.* 6(1):2. doi: 10.1186/s13287-015-0002-8. PMID: 25888913 (JIF 5.487). \*Indicates Mentor.
- Aravindan S, Somasundaram ST and **Aravindan N.** 2015. Novel adjuvants from seaweed impedes autophagy signaling in therapy resistant residual pancreatic cancer. *J Biomed Sci* 22(1):28. doi: 10.1186/s12929-015-0132-4. PMID: 25898131 (JIF 2.736).
- Delma CR, Srinivasan GP, Somasundaran, ST, Khursheed H, Bashyam MD and **Aravindan N\***. 2015. Fucoïdan from *Turbinaria conoides*: A Multifaceted 'deliverable' to combat pancreatic cancer progression. *Int. J. Biol. Macromol.* 74C:447-457, PMID: 25541359 (JIF 3.227). \*Indicates Mentor.
- Aravindan N,** Aravindan S, Pandian V, Khan FH, Ramraj SK, Natt P, Natarajan M. 2014\*. Acquired tumor cell radiation resistance at the treatment site is mediated through radiation-orchestrated intercellular communication. *Int J Radiat Oncol Biol Phys.*, 88(3):677-85, PMID: 24411622 (JIF 4.764). \*Indicates Mentor.
- Aravindan S, Natarajan M, Ramraj SK, Pandian V, Khan FH, Herman TS, **Aravindan N.** 2014\*. Abscopal effect of low-LET  $\gamma$ -radiation mediated through Rel protein signal transduction in a mouse model of non-targeted radiation response. *Cancer Gene Ther.*, 21(2):54-9. PMID: 24357814 (JIF 2.945). \*Indicates Mentor.
- Pandian V, **Aravindan N,** Subramanian S and Somasundaran, ST. 2014. Lipid lowering effect of molluscan (Katelaysia opima) glycosaminoglycan (GAG) in Hypercholesterolemia. *Biol. Chem.*, 395(3):355-64. PMID:24150207 (JIF 2.838).
- Aravindan S, Natarajan M, Awasthi V, Herman TS and **Aravindan N.** 2013. Novel synthetic monoketone transmute radiation-triggered NFB-dependent TNF $\alpha$  cross-signaling feedback maintained NF $\kappa$ B and favors neuroblastoma regression. *PLOS One.*, 8(8):e72464. PMID: 23967300 (JIF 4.015).
- Aravindan S, Delma CR, Thirugnanasambandan SS, Herman TS, **Aravindan N.** 2013\*. Anti-pancreatic cancer deliverables from sea: first-hand evidence on the efficacy, molecular targets and mode of action for multifarious polyphenols from five different brown-algae. *PLoS One.*, 8(4):e61977. PMID: 23613993 (JIF 4.015). \*Indicates Mentor.
- Aravindan S, Natarajan M, Herman TS, **Aravindan N.** 2013. Radiation-induced TNF $\alpha$  cross signaling-dependent nuclear import of NF $\kappa$ B favors metastasis in neuroblastoma. *Clin. Exp. Metastasis.* 30(6):807-17. PMID: 23584794. (JIF 4.290).
- Aravindan S, Natarajan M, Herman TS, Awasthi V, **Aravindan N.** 2013. Molecular basis of 'hypoxic' breast cancer cell radiosensitization: phytochemicals converge on radiation induced Rel signaling. *Radiat Oncol.* 8:46. PMID: 23452621. (JIF 2.486)
- Aravindan S, Natarajan M, Veeraraghavan J, Herman TS and **Aravindan N.** 2013. Inflammatory signature after low dose  $\gamma$ -radiation in mice brain and gut: Switch from therapeutic benefit to inflammation. *Eur. J. Inflamm.* 11(2): 1-14. (JIF 5.233).
- Aravindan N,** Aravindan S, Herman TS, Natarajan M. 2013. EGFR tyrosine kinase inhibitor pelitinib regulates radiation-induced p65-dependent telomerase activation in squamous cell carcinoma. *Radiat Res.* 179(3):304-12. PMID:23379415. (JIF 2.844)
- Vilekar P, Awasthi V, **Aravindan N,** Anant S and Awasthi S. 2012. EF24 suppresses maturation and inflammatory response in dendritic cells. *Int Immunol.* 24(7):455-64. PMID: 22378503. (JIF3.415)
- Aravindan N,** Thomas VR, Aravindan S, Mohan AS, Veeraraghavan J and Natarajan M. 2011. Irreversible EGFR inhibitor EKB-569 targets low-LET gamma-radiation-triggered Rel orchestration and potentiates cell death in squamous cell carcinoma *Plos One* 6(12): e29705. PMID: 22242139. (JIF 4.015).

18. Veeraraghavan J, Natarajan M, Lagisetty P, Awasthi V, Herman TS and **Aravindan N\*** 2011. Impact of Curcumin, raspberry extract and neem leaf extract on Rel Protein regulated cell death/radiosensitization in pancreatic cancer cells. *Pancreas*. 40(7):1107-19. **PMID: 21697760 (JIF 2.961)**. \*Indicates mentor
19. Veeraraghavan J, Natarajan M, Aravindan S, Herman TS and **Aravindan N\***. 2011 Radiation triggered TNF $\alpha$ -NF $\kappa$ B cross signaling favors survival advantage in human neuroblastoma. *J. Biol. Chem*. 17;286(24):21588-600. **PMID: 21527635 (JIF 5.117)**. \*Indicates mentor
20. Veeraraghavan J, Aravindan S, Natarajan M, and **Aravindan N\***. 2011. Neem leaf extract reverts fractionated and single dose low-LET  $\gamma$ -radiation regulated apoptosis related transcriptional responses in human neuroblastoma xenograft. *Anti-Cancer Research*. 31(1):161-70. **PMID: 21273594. (JIF 1.775)** \*Indicates mentor.
21. **Aravindan N**. Veeraraghavan J, Madhusoodhanan R, Herman TS and Natarajan M. 2011. Curcumin regulates low-LET  $\gamma$ -radiation induced NF $\kappa$ B dependent telomerase activity in neuroblastoma cells. *Int. J. Radonc. Biol. Phys*. 79(4):1206-15. **PMID: 21236599. (JIF 4.764)**. .
22. Veeraraghavan J, Natarajan M, Madhusoodhanan R, Herman TS and **Aravindan N\***. 2011. Low-dose  $\gamma$ -radiation induced oxidative stress response in mice brain and gut: Regulation by NF $\kappa$ B-MnSOD cross signaling. *Mutation Research- Genetic Toxicology and Environmental Mutagenesis* 11:718(1-2):44-55. **PMID: 21056117** \*Indicates mentor. **(JIF 3.175)**.
23. Veeraraghavan J, Natarajan M, Herman TS and **Aravindan N\***. 2010. Curcumin altered p53-response genes regulate radiosensitivity in p53-mutant Ewing's Sarcoma cells. *Anti-Cancer Research*. 30(10):4007-15. **PMID: 21036715 (JIF 1.775)**. \*Indicates mentor.
24. Madhusoodhanan R, Natarajan M, Veeraraghavan J, Singh N, Jamgade A, Awasthi V, Anant S, Herman TS and **Aravindan N\***. 2010. Effect of black raspberry extract in inhibiting NF $\kappa$ B dependent radio-protection in human breast cancer cells. *Nutrition and Cancer* 62(1):93-104. **PMID: 20043264 (JIF 2.888)**. \*Indicates mentor
25. Madhusoodhanan R, Herman TS, Jamgade, A, Singh N and **Aravindan N\***. 2008. NF $\kappa$ B signaling related molecular alterations in human neuroblastoma cells after fractionated irradiation. *J Radiat Res* 50(4):311-24. **PMID: 19436149 (JIF 1.794)**. \*Indicates mentor
26. Madhusoodhanan R, Herman TS and **Aravindan N\***. 2009. NF $\kappa$ B activity and transcriptional responses in human breast adenocarcinoma cells after single and fractionated irradiation. *Cancer Biol. Ther.*, 8(9):765-73. **PMID: 19276662 (JIF 2.920)** \*Indicates mentor
27. **Aravindan N**, Natarajan M. 2008. Hyperthermia induced NF $\kappa$ B mediated Apoptosis in normal human monocytes *Mol. Cell Biochem*. 327(1-2):29-37. **PMID: 19219626 (JIF 2.057)**
28. **Aravindan N**, Mohan S, Herman TS, Natarajan M. 2009. Nitric Oxide-Mediated Inhibition of NF $\kappa$ B Regulates Hyperthermia-Induced Apoptosis. *J. Cell. Biochem*. 106(6):999-1009. **PMID: 19204936 (JIF 3.123)**
29. **Aravindan N**, Madhusoodhanan R, Ahmad S, Johnson D and Herman TS. 2008. Curcumin inhibits NF $\kappa$ B mediated radioprotection and modulate apoptosis related genes in human neuroblastoma cells. *Cancer Biol. Ther.* 7(4):569-76. **PMID: 18305409 (JIF 2.920)**
30. **Aravindan N**, Madhusoodhanan R, Mohan N and Herman TS. 2007. Alteration of apoptotic signaling molecules as a function of time after radiation in human neuroblastoma cells. *Mol. Cell Biochem*. 310(1-2):167-179. **PMID:18066712 (JIF 2.057)**
31. Nates JL, **Aravindan N**, Hirsch-Ginsberg C, Sizer KC, Kee S, Nguyen AT, Chen K, Shaw AD, Price KP. 2007. Critically ill cancer patients are not consistently hypercoagulable after craniotomy. *Neurocrit Care*.H 7(3):211-6. **PMID: 17968522 (JIF 2.467)**
32. **Aravindan N**, Aravindan S and Shaw AD. 2007. Protection from unilateral renal ischemia/reperfusion induced injury in the non-ischemic distant kidney with fenoldopam. *Int. J Emerg Int Care Med*, 10(1):1-11.

33. **Aravindan N**, Aravindan S, Riedel BJ, Weng HR and Shaw AD. 2007. Furosemide prevents apoptosis and associated gene expression in a rat model of surgical ischemic acute renal failure. *Renal failure* 29(4):399-407. PMID: 17497460 (JIF 1.020)
34. Dang A, Mansfield P, Ilsin B, Hightower C, **Aravindan N**, Rice D and Riedel BJ. 2007. Intraoperative hyperthermic intrathoracic chemotherapy for pleural extension of pseudomyxoma peritonei. 2007. *J Cardiothorac Vasc Anesth.* 21(2):265-8. PMID: 17418746 (JIF 1.640)
35. **Aravindan N**, Aravindan S, Shanmugasundaram K, Shaw A. 2007. Periods of systemic partial hypoxia induce myocyte apoptosis and inflammation in anesthetized rats. *Mol Cell Biochem* 302(1-2):51-58. PMID: 17323003 (JIF 2.057)
36. **Aravindan N**. Modulation of skeletal muscle transcriptional responses following renal ischemia/reperfusion in a rat model of surgical acute renal insufficiency. 2006. *Biochem. Cell. Arch.* 6 (2): 209-222.
37. **Aravindan N**, Kalavati C and Aravindan S. Protozoan parasites in commercially important shrimp species from northeast coast of Andhra Pradesh, India. 2007. *J. Exp. Zool. Ind.* 10(1):1-12.
38. **Aravindan N**, Cata JP, Hoffman L, Dougherty PM, Riedel BJ, Price KP and Shaw AD. 2006. Effects of Isoflurane, pentobarbital and Urethane on Apoptosis and apoptotic signal transduction in rat kidney. *Acta Anaesthesiol Scand.* 50(10):1229-1237. PMID: 16978161(JIF 2.188)
39. **Aravindan N**, Samuels J, Riedel BJ and Shaw AD. 2006. Fenoldopam improves corticomedullary oxygen delivery and attenuates angiogenesis gene expression in acute ischemic renal injury. *Kidney Blood Press Res.* 29(3):165-174. PMID: 16931895 (JIF 1.465)
40. **Aravindan N**, Cata J, Dougherty P and Shaw A. 2006. Effect of Fenoldopam on ischemia/reperfusion induced apoptosis. *Renal Failure* 28(4)337-344. PMID: 16771250 (JIF 1.020)
41. **Aravindan N**, Natarajan M, and Andrew DS. 2006. Fenoldopam inhibits nuclear translocation of nuclear factor kappa B in a rat model of ischemic acute renal failure. *J Cardiothorac Vasc Anesth.* 20(2):179-186. PMID: 16616657 (JIF 1.640)
42. **Aravindan N** and Shaw A. 2006. Effect of furosemide infusion on renal hemodynamics and angiogenesis gene expression in acute renal ischemia/reperfusion. *Renal Failure* 28(1):25-35. PMID: 16526316 (JIF 1.020)
43. Martin BC, Shaw AD, Gal J, **Aravindan N**, Murphy F, Royston D and Riedel BJ. 2005. Comparison and validity of two troponin I assay systems for the diagnosis of myocardial injury following surgical coronary artery revascularization. *J Cardiothorac Vasc Anesth.* 19(3): 288-293. PMID: 16130052 (JIF 1.640)
44. Weng H, **Aravindan N**, Cata JP, Chen HJ, Shaw AD and Dougherty PM. 2005. Spinal glial glutamate transporters downregulated in rats with taxol-induced hyperalgesia. *Neurosci. Lett.* 386:18-22. PMID: 15975716 (JIF 2.168)
45. **Aravindan N**, Williams MT, Riedel BJ and Shaw AD. 2005. Transcriptional responses of rat skeletal muscle following hypoxia/reoxygenation and near ischemia/reperfusion. *Acta Physiol. Scand.* 183(4): 367-377. PMID: 15799773 (JIF 3.090)
46. Shaw AD, **Aravindan N**, Li Z and Riedel BJ. 2003. Temporal variation in tissue oxygen tension and perfusion response to hypoxia and ischemia: the importance of local control of the microcirculation. *Int J Emerg Int Care Med*, 7(1):1-8.
47. Natarajan M, **Aravindan N**, Meltz ML and Herman TS. 2002. Post-translational modification of I-Kappa B alpha activates NF- $\kappa$ B in human monocytes exposed to  $^{56}$ Fe ions. *Radiat Environ Biophys*, 41: 139-144. PMID: 12201057 (JIF 1.755)
48. **Aravindan N**, Kalavati C and Sheeja C. 2002. Expanding list of protozoan parasites in shrimps: Three new species, *Rosculus macrobrachii* n.sp., *Montonella macrobrachii* n.sp., and *Solenococcidium indicus* n.sp. from *Macrobrachium rosenbergii* and *Penaeus indicus*. *J Exp Zool India*, 5(1): 17-24.

49. **Aravindan N** and Sheeja C. 2001. Enhancement of disease resistance in penaeid Shrimps, *Penaeus indicus* H. Milne Edwards and *P. monodon* Fabricius after oral administration of conventional antibiotics of plant origin. *Biochem Cell Arch*, 1(1&2): 77-86.
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2. **Aravindan N** and Natarajan M. 2015. Space radiation associated oncogene addiction in normal tissues: A preliminary insight with animal model. **60th Annual Meeting of the Radiation Research Society**, September 19-22, 2015, Weston, FL. Abstract submitted.
3. Griffith J, Andrade D, Mehta M, Berry B, Benbrook D, **Aravindan N**, Herman TS, Ramesh R, Munshi A. Silencing BMI1 radiosensitizes human breast cancer cells by inducing DNA damage and autophagy. **38th San Antonio Breast Cancer Symposium**, December 8-12, 2015, San Antonio, TX. Abstract submitted.
4. **Aravindan N**, Ramraj S, Khan FK, Aravindan S, Herman TS and Natarajan M. 2015. Radiotherapy induction of MUC16 in neuroblastoma is mediated by TNF $\alpha$ -dependent self-maintenance of NF $\kappa$ B and repressed by tumor targeted delivery of EF24. **15th International Congress of Radiation Research**, May 15-29, 2015, Kyoto, Japan.
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12. Krishnan M, Mohan S, **Aravindan N**, Blakely EA and Natarajan M. 2015. Tumorigenic bystander effect after <sup>56</sup>Fe ion particle radiation exposure is mediated through sustained cross talk between pro-inflammatory cytokine, TNF $\alpha$  and Rel

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71. Veeraraghavan J, Kiosseva S, Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N\***. 2010. Abscopal effect of low-LET ionizing radiation on Rel protein signal transduction. *Cancer Research*; 70(8)-Suppl.1 doi:10.1158/1538-7445.AM10-486 *\*Indicates mentor (JIF 9.284)*.
72. Madhusoodhanan R, Veeraraghavan J, Natarajan M, Herman TS, Awasthi V and **Aravindan N\***. 2010. EF24 Attenuates Radiation-regulated eNOS $\rightarrow$ NO-dependent NF $\kappa$ B-Mediated Matrix Metalloproteinases in Human Neuroblastoma. *Cancer Research*; 70(8)-Suppl.1 doi:10.1158/1538-7445.AM10-5547 *\*Indicates mentor. (JIF 9.284)*.
73. Veeraraghavan J, Madhusoodhanan R, Natarajan M, Herman TS, and **Aravindan N\***. 2010. Molecular Basis for Soy Isoflavone, Genistein in the Prevention of Post-treatment Recurrence of Neuroblastoma. *Cancer Research*; 70(8)-Suppl.1 doi:10.1158/1538-7445.AM10-1402 *\*Indicates mentor (JIF 9.284)*.
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75. Hawkins JA, Veeraraghavan J, Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N\***. 2009. Low-Dose  $\gamma$ -radiation exposure frequency: A switch from therapeutic benefit to inflammation. *In: Proceedings of the SURP-Native American Research Center for Health*. pp83. *\*Indicates mentor*
76. Veeraraghavan J, Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N\***. 2009. Relative efficiency of curcumin, neem leaf extract and black raspberry extract in attenuating fractionated radiation induced NF $\kappa$ B DNA binding activity and transcriptional responses in human pancreatic adenocarcinoma cells. *In: Proceedings of the 55th Annual Meeting of the Radiation Research Society*; October 4-7, Savannah, GA, pp 154. **(RRS SIT award winner)**. *\*Indicates mentor*

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78. Shanmugasundaram K, **Aravindan N**, Otto RA and Natarajan M. 2009. Radiation-induced non-targeted effect in tumor angiogenesis is mediated by IKK-β activation. *In: Proceedings of the 55th Annual Meeting of the Radiation Research Society*; October 4-7, Savannah, GA, pp 123. (*RRS SIT award winner*).
79. Madhusoodhanan R, Veeraraghavan J, Natarajan M, Herman TS and **Aravindan N\***. 2009. Alteration of inflammatory molecules as a function of time after low-dose γ-radiation in mice gut and brain. *In: Proceedings of the 55th Annual Meeting of the Radiation Research Society*; October 4-7, Savannah, GA, pp 59. *\*Indicates mentor*
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81. Veeraraghavan J, Madhusoodhanan R and **Aravindan N\***. 2009. Dietary Polyphenol Curcumin regulates NFκB dependant radioprotection in bystander lung carcinoma cells. *In: Proceedings of the 34<sup>th</sup> Annual GREAT symposium*, OUHSC, OK. *\*Indicates mentor*
82. Madhusoodhanan R, Herman TS and **Aravindan N\***. 2009. Radiation induced molecular modulations in human breast adenocarcinoma cells after single (10Gy) and fractionated (2Gy x 5) dose irradiation. *Cancer Research*; 69(2)-Suppl.1 doi: 10.1158/0008-5472.SABCS-5133 *\*Indicates mentor (JIF 9.284)*.
83. Veeraraghavan J, Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N\***. 2008. Curcumin inhibits low-dose radiation-induced NFκB dependent adaptive response in bystander lung carcinoma cells. *In: Proceedings of the 100th Annual Meeting of the American Association for Cancer Research*; April 18-22; Denver, CO. Abstract no. 2312. *\*Indicates mentor*
84. Madhusoodhanan R, Veeraraghavan J, Natarajan M, Herman TS and **Aravindan N\***. 2008. The dietary polyphenol curcumin inhibits radiation induced NFκB mediated telomerase activity in human neuroblastoma cells. *In: Proceedings of the 100th Annual Meeting of the American Association for Cancer Research*; April 18-22; Denver, CO. Abstract no. 3622. *\*Indicates mentor*
85. Madhusoodhanan R, Herman TS, Jamgade A, Singh N, Ahmad S, Johnson DA and **Aravindan N\***. 2008. Differential expression of radiation induced genes in human neuroblastoma cells after single (10Gy) and fractionated (2Gy x 5) dose radiation. *In: Proceedings of the 54<sup>th</sup> Annual Meeting of the RRS*, Boston, MA. Abstract no. PS3487 (*RRS-SIT Award winner*). *\*Indicates mentor*
86. **Aravindan N**, Madhusoodhanan R, Singh N, Jamgade A, Anant S and Herman TS. 2008. Black raspberry seed extract enhances radiosensitivity of human breast adenocarcinoma cells by inhibiting transcription factor NFκB. *In: Proceedings of the 54<sup>th</sup> Annual Meeting of the RRS*, Boston, MA. Abstract no. PS3623.
87. **Aravindan N**. Madhusoodhanan R, Natarajan M, Singh N and Herman TS. 2008. Alteration of apoptotic signaling molecules as a function of time after radiation in human neuroblastoma cells. *In: Proceedings of the 99th Annual Meeting of the American Association for Cancer Research*; April 12-16; San Diego, CA. Abstract no. 5757.
88. **Aravindan N**. Madhusoodhanan R, Johnson DA, Ahmad S, Herman TS. 2007. Curcumin inhibits NFκB mediated radioprotection and reverts radiation modulated apoptosis related genes in human neuroblastoma cells. *In: Proceedings of the AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics: Discovery, Biology, and Clinical Applications*, October 22-26, San Francisco, CA. Abstract no. 5757.
89. **Aravindan N**. 2007. Curcumin and induced radio-resistance. *In: Proceedings of the 28<sup>th</sup> Annual Congress of Indian Association for Biomedical Scientists*, September 20-22, 2007. Tiruchirapalli, TN, India.

90. Beaty C, Madhusoodhanan R and **Aravindan N\***. 2007. Transcriptional Responses in induced radioresistance. *In: Proceedings of the SURP* pp43. \*Indicates mentor
91. **Aravindan N**, Madhusoodhanan R, Ahmad S, Johnson DA and Herman TS. 2007. Curcumin disrupts radiation induced positive feedback (NFκB-TNFα-NFκB) cycle and inhibits NFκB mediated radio-adaptation in neuroblastoma cells. *In: Proceedings of the 13<sup>th</sup> ICRR Annual meeting*. July 7-8, 2007, San Francisco, CA pp97.
92. **Aravindan N**, Madhusoodhanan R, Jamgade A and Herman TS. 2007. Radio-adaptation mediated by persistent activation of NFκB through positive feedback (NFκB→TNFα→NFκB) cycle in neuroblastoma cells. *In: Proceedings of the 98th Annual Meeting of the American Association for Cancer Research*; April 14-18; Los Angeles, CA. Abstract no. 3921.
93. **Aravindan N**, Herman TS and Natarajan M. 2006. Mechanism of hyperthermia-induced radiosensitization of human breast cancer cells. *In: Proceedings of the 53<sup>rd</sup> Annual meeting of the Radiation Research Society*. November 5-8, 2006, Philadelphia, PA.
94. **Aravindan N**, Natarajan M, Cata J, Riedel BJ and Shaw A. 2006. Volatile anesthetic agents inhibit NFκB-DNA binding activity & gene expression in rat kidney. *Anesthesiology* 105:A398. (JIF 6.186).
95. **Aravindan N**, Riedel BJ, Aravindan S, Price K and Shaw D. 2006. Effect of furosemide on ischemia/reperfusion induced apoptosis. *Anesthesiology* 105: A1050. (JIF 6.186).
96. Dang A, Riedel BJ, Warneke C, **Aravindan N**, and Hightower C. 2006. Comparative analysis of cardiopulmonary exercise testing as a preoperative risk assessment strategy. *Anesthesiology* 105: A600. (JIF 6.186).
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99. Hoffman LE and **Aravindan N\***. 2005. Effect of anesthetics on apoptosis and apoptotic signal transduction. M.D. Anderson Summer Research Program for College Students, C.U.R.E. \*Indicates mentor
100. Plasencia RR and **Aravindan N\***. 2005. Genetic Variation and Post-Operative Complications. M.D. Anderson Summer Research Program for College Students, C.U.R.E. \*Indicates mentor
101. **Aravindan N**, Cata J, Dougherty P and Shaw A. 2005. Effect of fenoldopam on ischemia/reperfusion induced apoptosis. *Anesthesiology* 103: A291. (JIF 6.168).
102. Nates JL, Chen K, Burdine C, **Aravindan N** and Price K. 2005. Individual clinical productivity in an academic critical care department. *Anesthesiology* 103: A299. (JIF 6.168).
103. **Aravindan N**, Riedel BJ, Shah A, Thomas D, and Shaw A. 2005. The effects of furosemide on renal hemodynamics and angiogenesis gene expression in acute renal ischemia/reperfusion. *In: Proceedings of the NIH 3<sup>rd</sup> Symposium on the Functional genomics of critical illness and injury* April 21-22, 2005, NIH, Bethesda, MD. pp71.
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105. **Aravindan N**, Priyanka D, Danny T, Riedel BJ and Shaw A. 2004. Tissue-dependent effect of anesthetic agents on NFκB pathway gene expression. *Crit Care Med*.32 (12S): A128. (JIF 6.484).
106. **Aravindan N**, Samuels J, Riedel BJ and Shaw AD. 2004. Fenoldopam attenuates ischemia-induced alterations in renal angiogenesis gene expression. *Anesthesiology* 101S: A406. (JIF 6.168).

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108. Thomas DO and **Aravindan N\***. 2004. Effect of general anesthetics on the apoptosis related end organ gene expression. M.D. Anderson Summer Research Program for College Students, C.U.R.E. *\*Indicates mentor*
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110. Nates JL, **Aravindan N**, Berner DK, Snedeker C and Luther KM. 2003. Critical pathways help to improve outcomes in spinal cord injury patients. *Crit Care Med*.31 (2S): A87. **(JIF 6.484)**.
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114. **Aravindan N**, Williams M, Li Z and Shaw A. 2002. The pattern of gene expression in Mild Ischemia: Characterization using high throughput gene micro array technology. *Anesthesiology* 97S: A630. **(JIF 6.168)**
115. Williams M, **Aravindan N**, Li Z and Shaw 2002 A. *In vivo* measurement of skeletal muscle tissue oxygen tension and perfusion during mild ischemia. *Anesthesiology* 97S:A655. **(JIF 6.168)**
116. Mohan N, **Aravindan N** and Herman TS. 2002. Nitric oxide-mediated inhibition of NFκB regulates hyperthermia-induced apoptosis. *In: Proceedings of the 49<sup>th</sup> Annual meeting of the RRS*.
117. Natarajan M, **Aravindan N**, Mohan S, Thomas C and Herman TS. 2001. Amifostine targets Rel/κB family of proteins for induced apoptosis and cell killing of normal human primary endothelial cells. *Clinical Cancer Res*. 7(11): 3807S. **(JIF 8.191)**
118. **Aravindan N**, Natarajan M and Herman TS. 2001. Nitric oxide regulates apoptosis induced by hyperthermia by blocking NF-κB DNA-binding activity in MCF-7 human breast adenocarcinoma cells. *In: Proceedings of the 11<sup>th</sup> SACI Annual symposium* pp23.
119. Natarajan M, **Aravindan N**, Meltz ML and Herman TS. 2001. NFκB dependent downstream gene expression in human monocytes exposed to high LET heavy-ion radiation. *In: Proceedings of the Texas Space Grant Consortium Spring Meeting* pp3.
120. Kalavati C, **Aravindan N** and Raman AV. 1998. Pathogenic bacteria in a shrimp hatchery and backwaters in Andhra Pradesh, India. *In: Proceedings of the 3<sup>rd</sup> International AAH symposium*. ppS24-25.
121. **Aravindan N** and Kalavati C. 1998. Pathogenic bacteria in a shrimp hatchery and backwaters in Andhra Pradesh, India. *In: Proceedings of the 39<sup>th</sup> AM Annual Conference* pp151.
122. **Aravindan N**, Kalavati C and Khan RN.1997. Substrate preference of penaeid post-larvae (*Penaeus indicus* and *Penaeus monodon*) collected from the backwaters of Visakhapatnam. *In: Proceedings of the NIO Symposium on Oceanography and Coastal Zone Management* pp77.

123. **Aravindan N** and Kalavati C. 1997. Incidence of *Vibrio damsela*, a human pathogen in *Penaeus indicus* from mangrove creeks near Pondicherry, Southern India. *In: Proceedings of the International seminar on Mangroves, Visakhapatnam, AP, India.*
124. **Aravindan N** and Kalavati C. 1997. Impact of nutritional status on disease resistance in the early stage of Indian white prawn, *Penaeus indicus*. *In: Proceedings of the Zoological society National Symposium*, pp21.
125. Khan RN, **Aravindan N** and Kalavati C. 1997. Habitat and diet selection in two post-larval penaeid shrimps (*Penaeus indicus* and *P. monodon*) from a tropical estuary. *American zoologist*, 37(5):45A.

## PRESENTATIONS

### Invited Seminars:

#### *International*

1. **Aravindan N.** Cancer Stem Cells plasticity. May 23, 2013. Center for Advanced Sciences, Annamalai University, India.
2. **Aravindan N.** Disseminated sub-lethal dose  $\gamma$ -radiation favors autocrine/ paracrine function and endorses radioprotection in tumor cells. SCC 2<sup>nd</sup> Annual Cancer Research Symposium. March 29, 2013. Stephenson cancer Center, University of Oklahoma Health Sciences Center, Oklahoma City, OK.
3. **Aravindan N.** NF $\kappa$ B in Cancer – Cosmic control of the cosmos. October 2011. Center for Advanced Sciences, Annamalai University, India.
4. **Aravindan N** Approach to Pediatric Brain Tumors, International Conference on Women and Child Malignancies (ICWCM) 13-14 February, 2010, Bhopal, MP, India. **Plenary Session**
5. **Aravindan N** Stem cell therapy in pediatric tumors, International Conference on Women and Child Malignancies (ICWCM) 13-14 February, 2010, Bhopal, MP, India. **Plenary Session**
6. **Aravindan N** Curcumin and induced radioresistance. 28<sup>th</sup> Annual Congress of Indian Association of Biomedical Scientists, September, 2007, Trichy, Tamil Nadu, India. **Plenary Session**
7. **Aravindan N** Natural dietary compounds in cancer treatment. September, 2007, School of Life Sciences, Bharathidasan University, Trichy, Tamil Nadu, India.
8. **Aravindan N** DNA Microarray Technology and Gene Expression Studies. May, 2005, Center for Advanced Sciences, Annamalai University, India.

#### *Local/ National*

9. **Aravindan N.** Targeting NF $\kappa$ B in Neuroblastoma. SCC Experimental Therapeutics Program Seminar Series. October 24, 2012. Stephenson cancer Center, Oklahoma City, OK.
10. **Aravindan N.** Radiotherapy in Neuroblastoma. November 16, 2012. Radiation Biology Research Seminar Series, Department of Radiation Oncology, University of Oklahoma Health Sciences Center, Oklahoma City, OK.
11. **Aravindan N.** Rel signaling in Neuroblastoma. SCC Excellence in Research Seminar Series. April 6, 2012. Stephenson cancer Center, University of Oklahoma Health Sciences Center, Oklahoma City, OK.
12. **Aravindan N.** Old wine in a new glass: Approach against Neuroblastoma, Academic Grand Rounds, March 2010, Department of Pathology, University of Oklahoma Health Sciences Center, Oklahoma City, OK.

13. **Aravindan N.** Genetic Variation in predicting Radio/Chemotherapy Response. March 2009, Radiation Biology Research Seminar Series, Department of Radiation Oncology, OU Health Sciences Center, Oklahoma City, OK.
14. **Aravindan N.** Transcriptional regulation in induced radioresistance and tumor relapse. March, 2008, Oklahoma University Cancer Institute, Oklahoma City, OK.
15. **Aravindan N.** NF $\kappa$ B in Cancer and Inflammation. October, 2006, Department of Cell Biology, University of Oklahoma Health Sciences Center, Oklahoma City, OK.
16. **Aravindan N.** NF $\kappa$ B Regulation in Hyperthermia Induced Apoptosis. November, 2001, Institute of Biosciences and Technology, Texas Medical Center, Houston, TX.
17. **Aravindan N.** Post-translational modification of NF $\kappa$ B. November, 2001, Department of Critical Care, UT-M.D. Anderson Cancer Center, Houston, TX.
18. **Aravindan N.** Efficient Tools in Molecular Biology. July, 2001, Department of Radiation Oncology, University of Texas Health Sciences Center at San Antonio, San Antonio, TX.

### Conference Presentations:

#### **Oral Presentations**

##### **International**

1. **Aravindan, N.** NF $\kappa$ b cross signaling after radiotherapy favors survival advantage in human neuroblastoma. *58th Annual Meeting of the Radiation Research Society*; October 2, 2012; Puerto Rico.
2. Shanmugasundaram K, **Aravindan N**, Otto RA and Natarajan M. 2009 Radiation-induced non-targeted effect in tumor angiogenesis is mediated by IKK- $\beta$  activation. *55<sup>th</sup> Annual Meeting of the Radiation Research Society*; October 6, Savannah, GA, USA.
3. **Aravindan N**, Herman TS and Natarajan M. 2006 Mechanism of hyperthermia-induced radiosensitization of human breast cancer cells. *53<sup>rd</sup> Annual meeting of the Radiation Research Society*, November 5, Philadelphia, PA, USA.
4. **Aravindan N**, Williams MT, Li J, Li Z, Riedel BJ and Shaw AD. 2003. Fenoldopam suppresses NF $\kappa$ B signaling pathway inflammatory gene expression induced by acute renal ischemia-reperfusion. *32<sup>nd</sup> Critical Care Congress of the Society of Critical Care Medicine*, January 30, San Antonio, TX, USA.
5. Mohan N, **Aravindan N** and Herman TS. 2002. Nitric oxide-mediated inhibition of NF $\kappa$ B regulates hyperthermia-induced apoptosis. *49<sup>th</sup> Annual meeting of the Radiation Research Society and 20<sup>th</sup> Annual meeting of the North American Hyperthermia Society*, April 20, 2002. Reno, NV.
6. **Aravindan N**, Natarajan M and Herman TS. 2001. Nitric oxide regulates apoptosis induced by hyperthermia by blocking NF $\kappa$ B DNA-binding activity in MCF-7 human breast adenocarcinoma cells. *11<sup>th</sup> Annual symposium of the San Antonio Cancer Institute*, July 31, San Antonio, TX, USA.
7. Natarajan M, **Aravindan N**, Meltz ML and Herman TS. 2001. NF $\kappa$ B dependent downstream gene expression in human monocytes exposed to high LET heavy-ion radiation. Texas Space Grant Consortium Spring Meeting, 2005, Houston, TX, USA.

##### **National**

8. **Aravindan N**, Kalavati C and Khan RN. 1997 Substrate preference of penaeid post-larvae (*Penaeus indicus* and *Penaeus monodon*) collected from the backwaters of Visakhapatnam. National Symposium on Oceanography and Coastal Zone Management, April 23, Visakhapatnam, AP, India.

9. **Aravindan N** and Kalavati C. 1997 Impact of nutritional status on disease resistance in the early stage of Indian white prawn, *Penaeus indicus*. Golden Jubilee National Symposium on Biology for Sustainable Development, Zoological society, January 16, Calcutta, WB, India.

#### **Local**

10. **Aravindan N** and Kalavati C. 1997. Incidence of *Vibrio damsela*, a human pathogen in *Penaeus indicus* from mangrove creeks near Pondicherry, Southern India. International seminar on Mangroves, Vrije University, Belgium and Andhra University, March 25, Visakhapatnam, AP, India.

#### **Poster Presentations**

##### **International**

1. **Aravindan N**, Aravindan S and Natarajan M. 2015. Radiation associated normal tissue inflammatory signature and kinetics in vivo: Role of NF $\kappa$ B dependent TNF $\alpha$  mediated second signaling feedback. **Conference on Normal Tissue Radiation Effects and Countermeasures (CONTREC)**, May 6-9, 2015, Little Rock, AK.
2. Delma CR, Srinivasan GP, Raviprakash N, Manna SK, Somasundaram ST, **Aravindan N**. 2015. Fucoidan from *Turbinaria conoides* attenuates pancreatic cancer progression by regulating p53 – NF $\kappa$ B crosstalk. **106<sup>th</sup> Annual Meeting of the American Association for Cancer Research**; April 18-22, 2015, Philadelphia, PA.
3. Aravindan S, Somasundaram ST, Terence S. Herman and **Aravindan N**. 2015. Novel adjuvants from seaweed impedes autophagy signaling in therapy resistant residual pancreatic cancer. **106<sup>th</sup> Annual Meeting of the American Association for Cancer Research**; April 18-22, 2015, Philadelphia, PA.
4. Khan FH, Pandian V, Ramraj S, Aravindan S, Herman TS, Natarajan M, **Aravindan N**. 2015. Reorganization of metastamiRs in the evolution of metastatic aggressive high-risk neuroblastoma. **106<sup>th</sup> Annual Meeting of the American Association for Cancer Research**; April 18-22, 2015, Philadelphia, PA.
5. Ramraj S, Khan FH, Azim T and **Aravindan N**. 2015. Metastatic neuroblastoma cancer stem cells exhibit flexible plasticity and adaptive stemness signaling. **106<sup>th</sup> Annual Meeting of the American Association for Cancer Research**; April 18-22, 2015, Philadelphia, PA.
6. **Aravindan N** and Natarajan M. 2015. Tissue dependent molecular basis for neoplastic transformation by <sup>56</sup>Fe ion particle radiation exposure. **NASA – Human Research Program: Investigators Workshop – Integrated pathways to Mars**; 2015, Galveston, TX.
7. Ramraj S, **Aravindan N**, Natarajan M, Pandian V, Khan F, Herman TS, Aravindan S. High polarity polyphenol fractions from brown algae target radiation-induced tumor invasion and metastasis in therapy-resistant residual pancreatic cancer. 60th Annual Meeting of the Radiation Research Society September 21-24, 2014, Las Vegas, NV
8. Khan FH, Masilamani R, Ramraj S<sup>1</sup>, Pandian V, Aravindan S, Natarajan M, Herman TS and **Aravindan N**. Raspberry polyphenol targets cancer stem cells in residual pancreatic cancer after radiotherapy: A comprehensive *In-vivo* / *Ex-vivo* approach. 60th Annual Meeting of the Radiation Research Society September 21-24, 2014, Las Vegas, NV
9. Pandian V, Natarajan M, Aravindan S, Khan FH, Ramraj S, Herman TS, **Aravindan N**. Nitric oxide mediated inhibition of NF $\kappa$ B arbitrates EF24-induced radio-sensitization in neuroblastoma tumor model. 60th Annual Meeting of the Radiation Research Society September 21-24, 2014, Las Vegas, NV
10. Durbas MA, Aravindan S, Natarajan M, Ramraj S, Pandian V, Khan FH, Herman TS, **Aravindan N**. Synthetic mono-ketone, EF24 affects autophagy in radio-resistant neuroblastoma cells. 60th Annual Meeting of the Radiation Research Society September 21-24, 2014, Las Vegas, NV.
11. Dinges C, Natarajan M, Aravindan S, Herman TS and Aravindan N. Hyperthermia induced NO repressed NF $\kappa$ B regulates IR-

- induced EMT, CSC self-renewal and pluripotency. 105<sup>th</sup> Annual Meeting of the American Association for Cancer Research; 2014. San Diego, CA.
12. Ramraj S, Pandian V, Khan FH, Aravindan S, Herman TS, Natarajan M, Aravindan N. Profiling of circulating miRNAs is a critical prognostic biomarker tool for high-risk neuroblastoma. 105<sup>th</sup> Annual Meeting of the American Association for Cancer Research; 2014. San Diego, CA.
  13. Pandian V, Khan FH, Ramraj S, Aravindan S, Natarajan M, Herman TS and **Aravindan N.** Molecular reprogramming in high-risk progressive neuroblastoma. 105<sup>th</sup> Annual Meeting of the American Association for Cancer Research; 2014. San Diego, CA.
  14. Khan FH, Ramraj S, Pandian V, Aravindan S, Herman TS, Natarajan M, **Aravindan N.** 2014. Non-random genetic rearrangements driven highly malignant tumor-cell population dictates the development of high-risk neuroblastoma. 105<sup>th</sup> Annual Meeting of the American Association for Cancer Research; 2014. San Diego, CA.
  15. Khan FH, Natarajan M, Aravindan S, Herman TS and **Aravindan N.** Radiation instigates EMT, CSC self-renewal and pluripotency signal transduction in non-targeted (bystander) ER $\alpha$ <sup>+</sup> and Triple-Negative breast cancer cells. 36<sup>rd</sup> Annual San Antonio Breast cancer symposium, 2013, San Antonio, Texas, USA.
  16. Ramraj SK, Natarajan M, Aravindan S, Herman TS, **Aravindan N.** EF24 targets radiation-induced NF $\kappa$ B dependent stemness in triple negative breast cancer cells. 36<sup>rd</sup> Annual San Antonio Breast cancer symposium, 2013, San Antonio, Texas, USA.
  17. Pandian V, Natarajan M, Aravindan S, Herman TS, **Aravindan N.** Neem leaf extract, rich in *Nimbolide* and *Azadirachtin* targets radiation-induced stemness in surviving breast cancer cells; 36<sup>rd</sup> Annual San Antonio Breast cancer symposium, 2013, San Antonio, Texas, USA.
  18. Khan FH, Aravindan S, Natarajan M, Herman TS, **Aravindan N.** Radiation induced post-translational modification of I $\kappa$ B $\alpha$  drives NF $\kappa$ B mediated chemo/cytokine dependent inflammation in mice brain; 59<sup>th</sup> Annual Meeting of Radiation Research Society. September 15-19, 2013 New Orleans, LA.
  19. Pandian V, Aravindan S, Natarajan M, Herman TS, and **Aravindan N.** Synthetic monoketone, EF24 regulates radiation-induced oncogene targets in therapy-resistance tumor cells: a multi-tumor based evidence; 59<sup>th</sup> Annual Meeting of Radiation Research Society. September 15-19, 2013 New Orleans, LA.
  20. Ramraj SK, Aravindan S, Natarajan M, Herman TS, and **Aravindan N.** Polyphenols from edible seaweeds target radiation-mediated pluripotency and EMT processes in therapy resistant pancreatic cancer cells; 59<sup>th</sup> Annual Meeting of Radiation Research Society. September 15-19, 2013. New Orleans, LA.
  21. Praveen Natt, Natarajan M, Shanmugasundaram K, Aravindan S, Herman TS, and **Aravindan N.** Raspberry polyphenol targets delayed radiation damage and validates radioprotection in mouse brain. 59<sup>th</sup> Annual Meeting of Radiation Research Society. September 15-19, 2013. New Orleans, LA.
  22. Aravindan S, Delma CR, Somasundaram ST, Natarajan M, Herman TS and **Aravindan N.** Anti-tumor activity of polyphenols from seaweeds: First-hand evidence on the efficacy, molecular targets and mode of action for multifarious extractions from five different brown-algae against pancreatic cancer. 104<sup>th</sup> Annual Meeting of the American Association for Cancer Research; 2013 Apr 6-10; Washington, DC.
  23. Major R, Aravindan S, Natarajan M, Herman TS and **Aravindan N.** MMP9 reinforces radiation-induced delayed invasion and metastasis of neuroblastoma through second-signaling positive feedback with NF $\kappa$ B via both ERK and IKK activation 104<sup>th</sup> Annual Meeting of the American Association for Cancer Research; 2013 Apr 6-10; Washington, DC.
  24. Delma CR, Somasundaram ST, Srinivasan G, Aravindan S, Natarajan M, Herman TS, **Aravindan N.** Sulfated polysaccharides from marine brown alga alleviate pancreatic cancer metastasis. 1<sup>st</sup> AACR Special conference of Tumor Invasion and Metastasis; 2013 Jan 20-23; San Diego, CA.

25. Thevatheril S, Aravindan S, Natarajan M, Herman TS and **Aravindan N**. Differential regulation of radiation-induced oncogene transcriptome with turmeric fractions and synthetic analogue. 58th Annual Meeting of the Radiation Research Society; September 30–October 3, 2012; Puerto Rico.
26. Aravindan S, **Aravindan N**, Natarajan M, Awasthi V and Herman TS. Tumor targeted delivery of novel synthetic monoketone EF24 averts radiotherapy-associated distant organ dissemination of Neuroblastoma. 58th Annual Meeting of the Radiation Research Society; September 30–October 3, 2012; Puerto Rico.
27. Natarajan M, Aravindan S, Herman TS and **Aravindan N**. Novel synthetic monoketone EF24 vitiates low-LET gamma radiation-regulated eNOS→NO-dependent NFκB-Mediated MMPs. In: Proceedings of the 58th Annual Meeting of the Radiation Research Society; September 30–October 3, 2012; Puerto Rico.
28. **Aravindan N**, Aravindan S, Herman TS and Natarajan M. Anthocyanin-rich black raspberry extract negatively regulates stem cell related molecules, EMT, and pluripotency of pancreatic cancer stem cells. 103<sup>rd</sup> Annual Meeting of the American Association for Cancer Research; April 1-4, 2012; Chicago, Illinois.
29. Natarajan M, Aravindan S, Herman TS and **Aravindan N**. Hyperthermia and radiotherapy in combination with curcumin prevent tumor cell migration and progression of breast cancer. 103<sup>rd</sup> Annual Meeting of the American Association for Cancer Research; April 1-4, 2012; Chicago, Illinois.
30. **Aravindan N**. Veeraraghavan J, Aravindan S, Mohan AS, Balthazar JD, Herman TS and Natarajan M. Irreversible EGFR inhibitor EKB-569 targets low-LET  $\gamma$ -radiation-triggered Rel orchestration and potentiates cell death in squamous cell carcinoma. 14th International Congress of Radiation Research, August 28<sup>th</sup> to September 1, 2011, Warsaw, Poland.
31. Veeraraghavan J, Aravindan S, Natarajan M, Herman TS and **Aravindan N**. Curcumin combined with hyperthermia and radiotherapy stalls breast cancer progression. 34<sup>rd</sup> CTCR-AACR San Antonio Breast cancer symposium, December 6-10, 2011.
32. Veeraraghavan J, Natarajan M, Balthazar JD, Aravindan S, Herman TS and **Aravindan N**. EGFR tyrosine kinase inhibitor EKB-569 regulates radiation-induced Rel dependent hTERT transcription and telomerase activity in human squamous cell carcinoma. 14th International Congress of Radiation Research, August 28<sup>th</sup> to September 1, 2011, Warsaw, Poland.
33. Balthazar JD, Veeraraghavan J, Natarajan M, Herman TS and **Aravindan N**. Blocking radiation induced nuclear import of NFκB attenuates TNFα dependent second signaling feedback and tumor invasion and metastasis transcriptome. 14th International Congress of Radiation Research, August 28<sup>th</sup> to September 1, 2011, Warsaw, Poland.
34. Veeraraghavan J, Natarajan M, Awasthi V, Herman TS, **Aravindan N**. EF24, a novel 24urcumin analogue inhibits oncogenic activation induced by radiation abscopal effect in distant mice lungs. 102<sup>nd</sup> Annual Meeting of the American Association for Cancer Research (AACR); April 2-6, 2011; Orlando, Florida, USA.
35. Veeraraghavan J, Natarajan M, Herman TS, **Aravindan N**. Mechanism of radiation-induced bystander effect: Role of NFκB pathway. 102<sup>nd</sup> Annual Meeting of the American Association for Cancer Research (AACR); April 2-6, 2011; Orlando, FL, USA.
36. Natarajan M, Mohan S, Zheng X, **Aravindan N**. Radiation impaired cell migration and wound healing after postoperative radiotherapy is mediated through inhibition of Shp2 tyrosine phosphatase. 102<sup>nd</sup> Annual Meeting of the American Association for Cancer Research (AACR); April 2-6, 2011; Orlando, Florida, USA.
37. Veeraraghavan J, Aravindan S, Natarajan M, Awasthi V, Herman TS, **Aravindan N**. Radiosensitizing effects of neem leaf extract in human neuroblastoma xenograft is through modulation of apoptotic pathway. 102<sup>nd</sup> Annual Meeting of the American Association for Cancer Research (AACR); April 2-6, 2011; Orlando, Florida, USA.
38. **Aravindan N**, Balthazar JD, Aravindan S, Veeraraghavan J, Herman TS and Natarajan M. Radiosensitization of hypoxic breast cancer cells with phytochemicals and their analogues involves Rel protein regulation. Hypoxia XVII – International Hypoxia Symposia, February 15-20, 2011, Lake Louise, Alberta, Canada.

39. Veeraraghavan J, Natarajan M, Herman TS and **Aravindan N**. Low-LET  $\gamma$ -radiation induced protein S-nitrosylation regulates tumor invasion and metastatic transcriptional response. 33<sup>rd</sup> Annual San Antonio Breast cancer symposium, December 8-12, 2010, San Antonio, Texas, USA.
40. Veeraraghavan J, Kardokus K, Natarajan M, Aravindan S, Herman TS and **Aravindan N**. Concerted anti-tumor/radiosensitizing effect of epigallocatechin gallate, Resveratrol and Genistein by targeting tumor invasion and metastasis molecules in human breast cancer cells. 33<sup>rd</sup> Annual San Antonio breast cancer symposium, December 8-12, 2010, San Antonio, Texas, USA.
41. Veeraraghavan J, Madhusoodhanan R, Natarajan M, Awasthi V, Agashe H, Herman TS, and **Aravindan N**. Synergy of phytochemicals in tumor cell radiosensitization. 56<sup>th</sup> Annual Meeting of the Radiation Research Society (RRS); September 25–29, 2010, Maui, Hawaii.
42. Veeraraghavan J, Natarajan M, Madhusoodhanan R, Herman TS, and **Aravindan N**. Curcumin altered p53-response genes regulates radiosensitivity. 56<sup>th</sup> Annual Meeting of the Radiation Research Society; September 25–29, 2010; Maui, Hawaii.
43. Veeraraghavan J, Natarajan M, Madhusoodhanan R, Herman TS, and **Aravindan N**. Molecular basis for low-dose  $\gamma$ -radiation induced oxidative stress response in vivo. 56<sup>th</sup> Annual Meeting of the Radiation Research Society; September 25–29, 2010; Maui, Hawaii.
44. Veeraraghavan J, Madhusoodhanan R, Natarajan M, Awasthi V, Agashe H, Herman TS, and **Aravindan N**. EF24 mitigates radiotherapy orchestrated NF $\kappa$ B-mediated survival advantage. 56<sup>th</sup> Annual Meeting of the Radiation Research Society; September 25–29, 2010; Maui, Hawaii.
45. Veeraraghavan J, Kiosseva S, Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N**. Abscopal effect of low-LET ionizing radiation on Rel protein signal transduction. 101<sup>st</sup> Annual Meeting of the American Association for Cancer Research; April 17-21, 2010; Washington, DC.
46. Madhusoodhanan R, Veeraraghavan J, Natarajan M, Herman TS, Awasthi V and **Aravindan N**. EF24 Attenuates Radiation-regulated eNOS $\rightarrow$ NO-dependent NF $\kappa$ B-Mediated Matrix Metalloproteinases in Human Neuroblastoma. 101<sup>st</sup> Annual Meeting of the American Association for Cancer Research; April 17-21, 2010; Washington, DC.
47. Veeraraghavan J, Madhusoodhanan R, Natarajan M, Herman TS, and **Aravindan N**. Molecular Basis for Soy Isoflavone, Genistein in the Prevention of Post-treatment Recurrence of Neuroblastoma. 101<sup>st</sup> Annual Meeting of the American Association for Cancer Research; April 17-21, 2010, Washington, DC.
48. **Aravindan N**, Madhusoodhanan R, Veeraraghavan J, Herman TS, and Natarajan M. Mechanistic Regulation of NF $\kappa$ B Dependent Radioprotection in Human Neuroblastoma. 101<sup>st</sup> Annual Meeting of the American Association for Cancer Research; April 17-21, 2010; Washington, DC.
49. Veeraraghavan J, Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N**. Relative efficiency of 25urcumin, neem leaf extract and black raspberry extract in attenuating fractionated radiation induced NF $\kappa$ B DNA binding activity and transcriptional responses in human pancreatic adenocarcinoma cells. 55<sup>th</sup> Annual Meeting of the Radiation Research Society; October 4-7, Savannah, GA.
50. **Aravindan N**, Madhusoodhanan R, Veeraraghavan J, Herman TS and Natarajan M. Non-targeted effect after low LET radiation exposure involves tumor-type –dependent differential regulation of NF $\kappa$ B signaling. 55<sup>th</sup> Annual Meeting of the Radiation Research Society; October 4-7, 2009. Savannah, GA.
51. Shanmugasundaram K, **Aravindan N**, Otto RA and Natarajan M. Radiation-induced non-targeted effect in tumor angiogenesis is mediated by IKK- $\beta$  activation. 55<sup>th</sup> Annual Meeting of the Radiation Research Society; October 4-7, 2009. Savannah, GA.

52. Madhusoodhanan R, Veeraraghavan J, Natarajan M, Herman TS and **Aravindan N**. Alteration of inflammatory molecules as a function of time after low-dose  $\gamma$ -radiation in mice gut and brain. 55<sup>th</sup> Annual Meeting of the Radiation Research Society; October 4-7, 2009. Savannah, GA.
53. Tamfu RC, **Aravindan N**, Yu H, Mohan S, Shanmugasundaram K and Natarajan M. Radiation-mediated crosstalk between ER- $\alpha$  and eNOS contributes to breast cancer cell invasion and migration. 55<sup>th</sup> Annual Meeting of the Radiation Research Society; October 4-7, 2009. Savannah, GA.
54. Veeraraghavan J, Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N**. Curcumin inhibits low-dose radiation-induced NF $\kappa$ B dependent adaptive response in bystander lung carcinoma cells. 100<sup>th</sup> Annual Meeting of the American Association for Cancer Research; April 18-22; 2009. Denver, CO.
55. Madhusoodhanan R, Veeraraghavan J, Natarajan M, Herman TS and **Aravindan N**. The dietary polyphenol 26curcumin inhibits radiation induced NF $\kappa$ B mediated telomerase activity in human neuroblastoma cells. 100<sup>th</sup> Annual Meeting of the American Association for Cancer Research; April 18-22; 2009. Denver, CO.
56. Madhusoodhanan R, Herman TS and **Aravindan N**. Radiation induced molecular modulations in human breast adenocarcinoma cells after single (10Gy) and fractionated (2Gy x 5) dose irradiation. 31<sup>st</sup> CTRC-AACR-BCM San Antonio Breast Cancer Symposium.A; December 9-13, 2008; San Antonio, TX.
57. Madhusoodhanan R, Herman TS, Jamgade A, Singh N, Ahmad S, Johnson DA and **Aravindan N**. Differential expression of radiation induced genes in human neuroblastoma cells after single (10Gy) and fractionated (2Gy x 5) dose radiation. 54<sup>th</sup> Annual Meeting of the RRS, 2008. Boston, MA.
58. **Aravindan N**, Madhusoodhanan R, Singh N, Jamgade A, Anant S and Herman TS. Black raspberry seed extract enhances radiosensitivity of human breast adenocarcinoma cells by inhibiting transcription factor NF $\kappa$ B. 54<sup>th</sup> Annual Meeting of the RRS, 2008. Boston, MA.
59. **Aravindan N**. Madhusoodhanan R, Natarajan M, Singh N and Herman TS. Alteration of apoptotic signaling molecules as a function of time after radiation in human neuroblastoma cells. 99<sup>th</sup> Annual Meeting of the American Association for Cancer Research; April 12-162008. San Diego, CA.
60. **Aravindan N**. Madhusoodhanan R, Johnson DA, Ahmad S, Herman TS. Curcumin inhibits NF $\kappa$ B mediated radioprotection and reverts radiation modulated apoptosis related genes in human neuroblastoma cells. AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics: Discovery, Biology, and Clinical Applications, October 22-26, 2007. San Francisco, CA.
61. **Aravindan N**, Madhusoodhanan R, Ahmad S, Johnson DA and Herman TS. Curcumin disrupts radiation induced positive feedback (NF $\kappa$ B-TNF $\alpha$ -NF $\kappa$ B) cycle and inhibits NF $\kappa$ B mediated radio-adaptation in neuroblastoma cells. 13<sup>th</sup> International Congress of Radiation Research, July 9, 2007.San Francisco, CA, USA.
62. **Aravindan N**, Madhusoodhanan R, Jamgade A and Herman TS. Radio-adaptation mediated by persistent activation of NF $\kappa$ B through positive feedback (NF $\kappa$ B $\rightarrow$ TNF $\alpha$  $\rightarrow$  NF $\kappa$ B) cycle in neuroblastoma cells. 98<sup>th</sup> Annual Meeting of the American Association for Cancer Research (AACR); April 14-18; 2007. Los Angeles, CA.
63. **Aravindan N**, Natarajan M, Cata J, Riedel BJ and Shaw A. Volatile anesthetic agents inhibit NF $\kappa$ B-DNA binding activity & gene expression in rat kidney. *American Annual Meeting of the American Society of Anesthesiologists*, October 14, 2006. Chicago, IL, USA.
64. **Aravindan N**, Riedel BJ, Aravindan S, Price K and Shaw D. Effect of furosemide on ischemia/reperfusion induced apoptosis. *Annual Meeting of the American Society of Anesthesiologists*, October 14, 2006. Chicago, IL, USA.
65. Dang A, Riedel BJ, Warneke C, **Aravindan N**, and Hightower C. Comparative analysis of cardiopulmonary exercise testing as a preoperative risk assessment strategy. *Annual Meeting of the American Society of Anesthesiologists*, October 14, 2006. Chicago, IL, USA.

66. **Aravindan N**, Hoffman L, Cata J, Plasencia R and Shaw A. Effect of general anesthetics on renal cell apoptosis and apoptotic signal transduction in rat kidney. *35<sup>th</sup> Critical Care Congress of the Society of Critical Care Medicine*, January 6, 2005. San Francisco, CA, USA.
67. Nates J, Kee S, Nguyen A, Chen K, **Aravindan N**, Shaw A, Hirsch-Ginsberg C, Sizer K and Price K. Critically ill cancer patients are not consistently hypercoagulable after craniotomy. *35<sup>th</sup> Critical Care Congress of the Society of Critical Care Medicine*, January 6, 2005. San Francisco, CA, USA.
68. **Aravindan N**, Cata J, Dougherty P and Shaw A. Effect of fenoldopam on ischemia/reperfusion induced apoptosis. *Annual Meeting of the American Society of Anesthesiologists*. October 22, 2005, Atlanta, GA, USA.
69. Nates JL, Chen K, Burdine C, **Aravindan N** and Price K. Individual clinical productivity in an academic critical care department. *Annual Meeting of the American Society of Anesthesiologists*. October 22, 2005, Atlanta, GA, USA.
70. **Aravindan N**, Riedel BJ, Shah A, Thomas D, and Shaw A. The effects of furosemide on renal hemodynamics and angiogenesis gene expression in acute renal ischemia/reperfusion. *NIH 3<sup>rd</sup> Symposium on the Functional genomics of critical illness and injury: Identifying research priorities*. April 21, 2005. Bethesda, MD, USA.
71. **Aravindan N**, Priyanka D, Danny T, Riedel BJ and Shaw A. Tissue-dependent effect of anesthetic agents on NFκB pathway gene expression. *34<sup>th</sup> Critical Care Congress of the Society of Critical Care Medicine*, January 15, 2004. Phoenix, AZ, USA.
72. **Aravindan N**, Samuels J, Riedel BJ and Shaw AD. Fenoldopam attenuates ischemia-induced alterations in renal angiogenesis gene expression. *Annual meeting of the American Society of Anesthesiologists*, October 23, 2004, Las Vegas, NV, USA.
73. Nates JL, **Aravindan N**, Berner DK, Snedeker C and Luther KM. Critical pathways help to improve outcomes in spinal cord injury patients. *33<sup>rd</sup> Critical Care Congress of the Society of Critical Care Medicine*, February 20, 2003. Orlando, FL, USA.
74. **Aravindan N**, Williams M, Li J, Li Z, Riedel BJ and Shaw AD. Fenoldopam mesylate increases total renal blood flow, cortical perfusion, cortical PO<sub>2</sub> and urine output in a rat model of surgical acute renal insufficiency. *32<sup>nd</sup> Critical Care Congress of the Society of Critical Care Medicine*, January 28<sup>th</sup> 2003, San Antonio, TX, USA.
75. **Aravindan N**, Williams M, Li Z and Shaw AD. The pattern of gene expression in Mild Ischemia: Characterization using high throughput gene micro array technology. *Annual meeting of the American Society of Anesthesiologists*, October 13, 2002, New Orleans, LA, USA.
76. Williams M, **Aravindan N**, Li Z and Shaw AD. *In vivo* measurement of skeletal muscle tissue oxygen tension and perfusion during mild ischemia. *Annual meeting of the American Society of Anesthesiologists*, October 14, 2002, New Orleans, LA, USA.
77. Natarajan M, **Aravindan N**, Mohan S, Thomas C and Herman TS. Amifostine targets Rel/κB family of proteins for induced apoptosis and cell killing of normal human primary endothelial cells. *AACR-NCI-EORTC International Conference*, October 29, 2001. Miami Beach, FL, USA.
78. Kalavati C, **Aravindan N** and Raman AV. Pathogenic bacteria in a shrimp hatchery and backwaters in Andhra Pradesh, India. *3<sup>rd</sup> International symposium on Aquatic Animal Health*, August 30, 1998. Baltimore, MD, USA.
79. Khan RN, **Aravindan N** and Kalavati C. Habitat and diet selection in two post-larval penaeid shrimps (*Penaeus indicus* and *P. monodon*) from a tropical estuary. *Annual Meeting of the Society for integrative and comparative biology*, January 3, 1997. Boston, MA, USA.

**National**

1. Pandian V, Major R, Khan FH, Ramraj SK, Natt P, and **Aravindan N**. Radiation-induced MMP9 maintains Rel signaling through second-signaling feedback via both Erk and IKK activation and endorses delayed invasion and metastasis of Neuroblastoma. Stephenson Cancer Center 2<sup>nd</sup> Annual Research Symposium. March 29, 2013. Oklahoma City, OK.
2. Ramraj SK, Pandian V, Khan FH, Natt P, **Aravindan N**. Diet derived polyphenol targets EMT and pluripotency maintenance transcriptome in pancreatic cancer stem cells. Stephenson Cancer Center 2<sup>nd</sup> Annual Research Symposium. March 29, 2013. Oklahoma City, OK.
3. Aravindan S, Delma CR, Somasundaram TS and **Aravindan N**. Anti-oxidant rich seaweed polyphenols target multi-signaling cascade and alleviates pancreatic cancer progression. Stephenson Cancer Center 2<sup>nd</sup> Annual Research Symposium. March 29, 2013. Oklahoma City, OK.
4. Delma CR, Aravindan S, Somasundaram ST and **Aravindan N**. Anti-metastatic potential of sulfated polysaccharides from *Turbinaria conoides* in pancreatic cancer. Stephenson Cancer Center 2<sup>nd</sup> Annual Research Symposium. March 29, 2013. Oklahoma City, OK.
5. Khan FH, Ramraj SK, Natt P, Pandian V, **Aravindan N**. Radiation induced TNF- $\alpha$  dependent second signaling Feedback associated post-translational nuclear-import of NF $\kappa$ B regulates tumor invasion/metastasis in human Neuroblastoma. Stephenson Cancer Center 2<sup>nd</sup> Annual Research Symposium. March 29, 2013. Oklahoma City, OK.
6. Khan FH, Thevatheril S, **Aravindan N**. Potential of turmeric fractions in mitigating the onset of oncogenesis in mouse model of radio-protection. Stephenson Cancer Center 2<sup>nd</sup> Annual Research Symposium. March 29, 2013. Oklahoma City, OK.
7. Natt P, Herman TS, Natarajan M and **Aravindan N**. Pelitinib regulates radiation induced p65-dependent telomerase activation in head and neck squamous cell carcinoma. Stephenson Cancer Center 2<sup>nd</sup> Annual Research Symposium. March 29, 2013. Oklahoma City, OK.
8. Natt P, Khan FH, Pandian V, Ramraj SK and **Aravindan N**. Irreversible EGFR tyrosine kinase inhibitor, EKB-569 potentiates radiotherapy in tumor cell killing. Stephenson Cancer Center 2<sup>nd</sup> Annual Research Symposium. March 29, 2013. Oklahoma City, OK.
9. **Aravindan N** and Kalavati C. Pathogenic bacteria in a shrimp hatchery and backwaters in Andhra Pradesh, India. 39<sup>th</sup> Annual Conference of the Association of Microbiologists of India, December 6, 1998. Mangalore, KA, India.

**Local**

10. Veeraraghavan J, Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N**. Anthocyanins in Radiosensitization. Stephenson Cancer Center– Annual Poster Session, April 28, 2009, Oklahoma City, OK.
11. Veeraraghavan J, Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N**. Transcriptional responses after fractionated radiation. Stephenson Cancer Center–Annual Poster Session, April 28, 2009, Oklahoma City, OK.
12. Veeraraghavan J, Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N**. Low dose radiation induced bystander effects. Stephenson Cancer Center–Annual Poster Session, April 28, 2009, Oklahoma City, OK.
13. Veeraraghavan J, Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N**. NF $\kappa$ B dependent hTERT and telomerase activity. Stephenson Cancer Center–Annual Poster Session, April 28, 2009, Oklahoma City, OK.
14. Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N**. Curcumin disrupts radiation induced TNF $\alpha$  dependent feedback and inhibits NF $\kappa$ B mediated radioadaptation in neuroblastoma cells. Stephenson Cancer Center–Annual Poster Session, 2008, Oklahoma City, OK.

15. Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N.** Radio-adaptation mediated by persistent activation of NFκB through positive feedback (NFκB-TNFα-NFκB) cycle in neuroblastoma cells. Stephenson Cancer Center–Annual Poster Session, 2008, Oklahoma city, OK.
16. Madhusoodhanan R, Natarajan M, Herman TS and **Aravindan N.** Rel protein regulation in induced radioresistance. Stephenson Cancer Center-Annual Poster Session, May 7, 2007, Oklahoma City, OK.

## TEACHING

### Course Based Teaching

<u>Year</u>	<u>Course Name</u>	<u>Level</u>	<u>Role</u>
2006-To date	<b>Radiation Biology, Course Director</b> and Presents a series of Lectures to Radiation Oncology Residents, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA.	Radiation Residents	Oncology Course Director/Lecturer

***This course is taught for Radiation Oncology residents registered under the Radiation Oncology residency program. The course director will appropriately appoint lecturers to give special topics. The lecture series is for 1h every week on Fridays all through the Academic Year.***

2009	PATH 6024-Principles of Pathobiology; Department of Pathology, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA.	Graduate Students	(PhD) Lecturer
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***This course is taught for Pathology PhD track students' core course for Patho-biology registered under the Pathology Graduate program.***

2008-To date	PATH 5310-Directed Studies 2008–011-Laboratory 15086-Traditional, University of Oklahoma Health Sciences Center, Oklahoma City, OK.	Graduate Students	(PhD) Lecturer
1996-2000	Clinical pathology, Department of Zoology, Andhra University, Visakhapatnam, AP, India.	Post-graduate Students	(MS) Lecturer (Informal)
1996-2000	Cell & Molecular Biology, Department of Zoology, Andhra University, Visakhapatnam, AP, India.	Post-graduate Students	(MS) Lecturer (Informal)
1995-1996	AIDS and other infectious diseases awareness program, NABARD Project, Women and Child Development Authority, Government of Tamil Nadu, India.	Village Administrative officers and other office holders	Lecturer

### School/College Student Supervision

<u>Year</u>	<u>Description</u>	<u>Institution</u>	<u>Project</u>
05/15-07/15	<b>Meghna Singh</b> , Stephenson Cancer Center Research Internship		RD3-Guanylyl Cyclases interaction in neuroblastoma
05/15/-07/15	<b>Rachel Wolansky</b> , Stephenson Cancer Center Research Internship		Role of HDACs in neuroblastoma evolution
06/14-08/14	<b>Skyler Hying</b> , Stephenson Cancer Center Research Internship	SCC	RD3 loss driven miRNAs alterations switches favorable to high-risk metastatic disease
06/13-08/13	<b>Corinne Dinges</b> , Stephenson Cancer Center Research Internship	SCC	Hyperthermia mediated NO in IR- associated EMT regulation

06/13-To date	<b>Tasfia Azin</b> , Oklahoma School of Science and Mathematics Student	OSSM	Progressive neuroblastoma stem cell phenotyping
06/12-08/12	<b>Ryan Major</b> , Stephenson Cancer Center Research Internship	SCC	Rel regulated MMP9 signaling
04/12-5/12	<b>Alisha</b> , Microbiology, University of Oklahoma	OUHSC	NO Signaling in breast Cancer
06/11-05/12	<b>Sarah Thevatheril</b> , Oklahoma School of Science and Mathematics Student	OSSM	Turmeric products in radioprotection
06/11-08/11	<b>Jacob Wayland</b> , Stephensons Oklahoma Cancer Center Research Internship	OUHSC	Novel monoketone against tumor cell oncogene transcriptome: A multi-tumor in vitro high throughput screening.
06/11-08/11	<b>Ryan Johnston</b> Stephensons Oklahoma Cancer Center Research Internship	OUHSC	Dissemination of oncogenic signaling to distant organs: Preliminary insight and prevention strategy.
06/10-09/10	<b>Connie Liu</b> , Stephensons Oklahoma Cancer Center Research Internship	OUHSC	Anti-pancreatic tumor efficacy of dietary nutraceuticals
04/10-06/10	<b>Kalli Kardokus</b> Summer Under graduate Research Excellence- SURE	OUHSC	Abscopal Effects of Low-LET radiation
10/09-01/10	<b>Clara</b> , Moore High School Senior	OUHSC	Radiosensitizing and anti-tumor Potential of a homeopathic extract.
05/09-07/09	<b>John Adam Hawkins</b> , SURP – Native American Research Center for Health(NARCH)	OUHSC	Low-Dose $\gamma$ -radiation exposure frequency: A switch from therapeutic benefit to inflammation.
05/07-07/07	<b>Cristina Beaty</b> , SURP – IdeA Network of Biomedical Research (INBRE)	OUHSC	Transcriptional Responses in induced radioresistance.
11/06-03/07	<b>Mathew Thomas</b> , Oklahoma School of Science and Mathematics Student	OUHSC	Hyperthermia induced apoptosis
05/06-06/06	<b>Lauren Hoffman</b> , UTMDACC-SURP (Pursued Medicine in University of Houston)	UT-MDACC	Coagulable status after craniotomy in Critically ill cancer patients
05/05-07-05	<b>Ricardo Plasencia</b> , UTMDACC-SURP (Pursued Medicine in Brown University, Providence, RI.)	UT-MDACC	Genetic Variations and postoperative complications
05/05-07-05	<b>Lauren Hoffman</b> , UTMDACC-SURP (Pursued Medicine in University of Houston)	UT-MDACC	Effects of Isoflurane, pentobarbital and Urethane on Apoptosis and apoptotic signal transduction in rat kidney
05/04-07-04	<b>Ankit Shaw</b> ; UTMDACC-Kingship Foundation SURO (Pursued M.D. PhD in Baylor College of Medicine)	UT-MDACC	Effect of Furosemide On Renal Gene Expression After Ischemia/Re-perfusion Injury
05/04-07-04	<b>Danny O. Thomas</b> , UTMDACC-CURE SURP. (Pursued Medicine in University of Texas, Austin, TX)	UT-MDACC	Effect of anesthetics on end organ gene expression

05/03-07-03	<b>Priyanka Desai</b> , UTMDACC-SURP (Pursued Medicine in Texas A&M University)	UT-MDACC	Tissue-dependent effect of anesthetic agents on NFκB pathway gene expression.
05/02-07-02	<b>James C Li</b> , (Pursued Medicine in Harvard University, Boston)	UT-MDACC	Critical illness myopathy: Systemic hypoxia and myocyte inflammation
05/01-07-01	<b>Tabatabamir Hooman</b> UTHSCSA-SURP. (Pursued Medicine in UTHSCSA)	UTHSCSA	Rel/κB family of proteins regulation in Amifostine induced apoptosis

#### Medical Student/Residents/Fellows Supervision

<u>Year</u>	<u>Description</u>	<u>Institution</u>	<u>Project</u>
2004-2005	<b>Dr. Diego Villalobos</b> , Fellow, Dept. of Critical Care Medicine (Currently working as a Faculty in UTMDACC)	UT-MDACC	Minimizing inflammatory burden of acute renal failure by optimizing oxygen flux.
2003-2004	<b>Dipen Parikh</b> , Medical students MS-2;	UT-MDACC	Renal histopathological damages after Ischemia-Reperfusion Injury
2000-2001	<b>Dr. Helen</b> , Fellow of Radiation Oncology, Cancer Therapy and Research Center	UTHSCSA	Post-translational modification of IκBα after Low LET radiation
2000-2001	<b>Dr. Ben</b> , Fellow of Radiation Oncology, Cancer Therapy and Research Center	UTHSCSA	Radiotherapy induced transcriptional responses in breast cancer

#### Research/Graduate Research Assistant Supervision

<u>Year</u>	<u>Description</u>	<u>Institution</u>	<u>Project</u>
2012-2013	<b>Praveen Natt</b> ,	OUHSC	Novel synthetic analogues of curcumin against head and neck cancer
2010-2011	<b>Dr. Ambarish Jamgade</b> , Graduate Research Assistant. (Currently Pediatric Resident in OU Tulsa)	OUHSC	Radiation protection in neuroblastoma
2009	<b>Dr. Shahida Fareed</b> , Graduate Research Assistant, (Pursued MPH in OU)	OUHSC	Potential deliverable identification towards efficient radioprotection
2007-2008	<b>Dr. Nisha Singh</b> Graduate Research Assistant, (Currently Faculty in Pediatrics, OU Tulsa)	OUHSC	Low-dose radiation induced Radioprotection
2006-2008	<b>Dr. Ambarish Jamgade</b> , Graduate Research Assistant. (Currently Pediatric Resident in OU Tulsa)	OUHSC	Radiation modulated signal transduction in neuroblastoma
2000-2001	<b>Francis N. Roldan</b> Research Assistant	UTHSCSA	Research Methodology

**Graduate (PhD) Student Mentoring/Supervision**

<b><u>Year</u></b>	<b><u>Description</u></b>	<b><u>Role</u></b>	<b><u>Project</u></b>
2014	<b>Joshua Corbin</b> , Department of Pathology, OUHSC	Exam committee Member	Investigating the role of TMEF2 as an AR activator in prostate cancer
2014	<b>Velerie Harris</b> , Department of Pathology, OUHSC	Exam committee Member	Gene dosage effect of DDX3X in SLE
2014-Todate	<b>Malgorzata Durbas</b> , Graduate Student, Jagiellonian University in Krakow, Poland	Co-Mentor	Molecular mechanisms of neuroblastoma cell death by anti-GD2 monoclonal antibody
2012-Todate	<b>Sheeja Aravindan</b> , Graduate Student, CAS, Annamalai University, India	Co-Mentor	Seaweed polyphenols against pancreatic carcinogenesis, progression and resistance.
2009-2013	<b>Caroline R. Delma</b> Graduate Student, CAS, Annamalai University, India.	Co-Mentor	Molecular orchestration involved in pancreatic carcinogenesis
2008-2012	<b>Dr. Jamunarani Veeraraghavan</b> Graduate Student, Department of Pathology, OUHSC	Mentor,	Targeted delivery of synthetic monoketone against tumor relapse, progression and metastasis
2008-2012	<b>Vilekar S. Prachi</b> , Department of Pharmaceutical Sciences, OUHSC	Dissertation committee Member	Anti-inflammatory effects of curcuminoid: EF24
2011	<b>S. Vishnupriya</b> , Department of Microbiology, Bharathidasan University, Tiruchirapalli, TN, India	External Board Member	Dietary Supplements and Cancer
2011	<b>S. Kothai</b> , Department of Microbiology, Bharathidasan University, Tiruchirapalli, TN, India	External Board Member	Ethnobotany and antimicrobial properties of medicinal plants of Jimma, Ethiopia
2010	<b>Xi Jin</b> , Graduate Student, Department of Pathology, OUHSC	Exam Committee member	The Regulation of metabolism in the development of solid tumor
2009	<b>Ganesh Kumar</b> , Department of Microbiology, Bharathidasan University, Tiruchirapalli, TN, India	External Board Member	Study on Hepatitis C Virus
2009	<b>M. Umarani</b> , Department of Biochemistry, PGIBMS, University of Madras, TN, India.	External Board Member	Antineoplastic and Apoptotic potential of Kalpaamruthaa against hepatocellular carcinoma
2007	<b>Aravind Prasanth</b> , Department of Animal Science, Bharathidasan University, Tiruchirapalli, TN, India	External Board Member	Determination of etiological Agents, pre-disposing factors and virulence factors of mycotic keratitis in a tropical setting.

**Post-Doctoral Fellow Supervision**

<u>Year</u>	<u>Description</u>	<u>Institution</u>	<u>Project</u>
2012-To date	<b>Dr. Satishkumar Ramraj</b> Post-Doctoral Fellow	OUHSC	Seaweed polyphenols against pancreatic cancer
2012-2014	<b>Dr. Vijayabaskar Pandian</b> Postdoctoral Fellow	OUHSC	Progressive neuroblastoma
2012-To date	<b>Dr. Faizan H. Khan</b> Postdoctoral Fellow	OUHSC	RABGAP1L fusion genes
2014-2014	<b>Dr. Revathi Masilamani</b> Post-Doctoral Fellow	OUHSC	Pancreatic Cancer Metastasis
2010-2011	<b>Dr. Joseph D. Balthazar</b> Post-Doctoral Fellow	OUHSC	Synergy of phytochemicals against breast cancer
2006-2010	<b>Dr. Rakesh Madhusoodhanan</b> Post-Doctoral Fellow	OUHSC	Rel Protein regulation after radiotherapy and response of targeted manipulation in multi-tumor type <i>in vivo</i> models

**Junior Faculty Supervision**

<u>Year</u>	<u>Description</u>	<u>Institution</u>	<u>Project</u>
2009-2010	<b>Dr. Svetlana Kiosseva</b> Res. Asst. Prof., OUHSC	OUHSC	Radiation induced Bystander effects
2010-To date	<b>Dr. Marwa S. Abou El-eneen</b> Lecturer, Radiation Sciences, MRI	Alexandria Univ. Egypt	Radioprotective effect of date fruit extract

**PROFESSIONAL SERVICE****Educational Administration and Leadership**

2006-To date	Course Director	Radiation Biology to Radiation Oncology Medical Residents, Department of Radiation Oncology, OU Health Sciences Center, Oklahoma City, OK. <b><i>This course is taught for Radiation Oncology residents registered under the Radiation Oncology residency program. The course director will appropriately appoint lecturers to give special topics. The lecture series is for 1h every week on Fridays all through the Academic Year.</i></b>
2007-To date	Board Member	Pathology Graduate committee, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA <b><i>The agenda driven committee convenes once every month for the organization and function of pathology graduate program.</i></b>
2007-To date	Member (Level 4)	Graduate College, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA
2007-Todate	Member	Cancer Biology Program, Stephenson Cancer Center, Oklahoma City, OK, USA
2011-Todate	Member	Developmental Therapeutics Program, Stephenson Cancer Center, Oklahoma City, OK, USA

2006-To date	School Student Supervision	Mentored five school students ( <i>Tasfia Azim, 2013; Sarah Thevatheril and Alisha J. Clark, 2012; Clara Fay Lovelace, 2010 and Mathew Thomas, 2007</i> ) on individual research projects and produced peer reviewed published abstracts and scientific publications.
2006-To date	College Student Supervision	Mentored five college students ( <i>Skylar Hying, 2014; Corinne Dinges, 2013; Ryan Major, 2012; Jacob Wayland and Ryan Johnston, 2011; Connie Liu and Kalli Kardokus, 2010; John Adam Hawkins, 2009 and Cristina Beaty, 2007</i> ) on individual research projects and produced peer reviewed published abstracts and scientific publications.
2006-To date	Medical Student Supervision	Mentored three medical students/residents ( <i>Dr. Ambarish Jamgade, 2006-2008 and 2010-2011; Dr. Shahida Fareed, 2009; Dr. Nisha Singh, 2007-2008</i> ) on individual research projects and produced peer reviewed abstracts and scientific publications.
2012-2013	Masters Student Supervision	Mentored one Masters student ( <i>Mr. Praveen Natt, 2012-2013</i> ) on individual research project and produced peer reviewed published abstracts and scientific publications.
2007-To date	Graduate Student Supervision	Mentored/mentoring four graduate students ( <i>Dr. Jamunarani Veeraraghavan, 2008-2012; Dr. Caroline R. Delma, 2009-2013; Ms. Sheeja Aravindan, 2012- to date and Ms. Malgorzata Durbas, 2014- to date</i> ) on individual research projects with successful completion of the degree program and peer-reviewed high-impact publications.
		Served on General Exam committee member for graduate students ( <i>Joshua Corbin, 2014; Valerie Harris, 2014; Xi Jin, 2010</i> )
		Served as the Dissertation committee Member for two graduate students (Chair for <i>Dr. Jamunarani Veeraraghavan</i> and Member for <i>Dr. Vilekar S. Prachi</i> ).
		Served as the External Board Member (Adjudicator) for five graduate students ( <i>Dr. S. Vishnupriya, 2011; Dr. S. Kothai, 2011; Dr. Ganesh Kumar, 2009; Dr. Aravind Prasanth, 2007; all from Department of Microbiology, Bharathidasan University, Tiruchirapalli, TN, India and Dr. M. Umarani, 2009, Biochemistry, PGIBMS, University of Madras, TN, India</i> ).
2006-To date	Post-Doctoral Supervision	Mentored/Mentoring six post-doctoral fellows ( <i>Dr. Satishkumar Ramraj, 2012-To date; Dr. Faizan H. Khan, 2012-2015; Dr. Vijayabaskar Pandian, 2012-2014; Dr. Revathi Masilamani, 2014; Dr. Joseph D. Balthazar, 2010-2011 and Dr. Rakesh Madhusoodhanan, 2006-2010</i> ) on individual research projects and produced peer reviewed published abstracts and scientific publications.
2009-2010	Junior Faculty Supervision	Mentored <i>Dr. Svetlana Kiosseva</i> , Research Assistant Professor, Department of Radiation Oncology, on individual research project and produced peer reviewed published abstracts and scientific publications.
2006-To date	Adjudication of student/Scholars scientific competition	Served as the 'Judge' for the Graduate Students Oral and Poster Presentation competition in GREAT Symposium, OUHSC, 2014, 2013, 2011 and 2009.
		Served as the 'Judge' for the Graduate Students Oral Presentation competition in 9 <sup>th</sup> Annual Paul Kimmelstiel Graduate Student Award for Excellence in Research and Presentation, Pathology Graduate Program, OUHSC

**Editor/Editorial Board, Journal Reviewer****Editorial Board**

1.	Academic Editor	PLOS One ( <b>JIF 4.015</b> )
2.	Associate Editor	International Journal of Drug Discovery
3.	Editorial Advisory board	International Journal of Academic Research
4.	Editorial Advisory board	Scientific Journals International
5.	Editorial Board Member	Archives Des Sciences
6.	Editorial Board Member	Clinical Cancer Drugs
7.	Editorial Board Member	International bulletin of biomedical Sciences
8.	Editorial Board Member	International Journal of innovative Research and Development
9.	Editorial Board Member	ISRN-Genetics
10.	Editorial Board Member	Journal of Radiation Oncology

**Reviewer - Journal list arranged in Alphabetical order with their impact factor in parenthesis**

1.	American Journal of Nephrology ( <b>JIF 2.697</b> )
2.	American Journal of Physiology, Renal Physiology ( <b>JIF 3.894</b> )
3.	Apoptosis ( <b>JIF 4.162</b> )
4.	BBA – Molecular Cell Research ( <b>JIF 4.947</b> )
5.	BMC Musculoskeletal Disorders ( <b>JIF 2.305</b> )
6.	Cancer Medicine ( <b>JIF 4.916</b> )
7.	Cancer Cell International ( <b>JIF 2.09</b> )
8.	Cancer Genetics ( <b>JIF 2.417</b> )
9.	Cell Biology and Toxicology ( <b>JIF 2.511</b> )
10.	Clinical and Experimental Metastasis ( <b>JIF 3.991</b> )
11.	Current Cancer Drug Targets ( <b>JIF 4.327</b> )
12.	European Journal of Obstetrics & Gynecology and Reproductive Biology ( <b>JIF 1.849</b> )
13.	Free Radical Biology and Medicine ( <b>5.769</b> )
14.	Indian Journal of Pharmaceutical Sciences ( <b>JIF 0.626</b> )
15.	Intensive Care Medicine ( <b>JIF 5.399</b> )
16.	International Journal of Academic Research
17.	International Journal of Developmental Neuroscience ( <b>JIF 2.425</b> )
18.	International Journal of Nano medicine ( <b>JIF 4.424</b> )
19.	International Journal of Radiation Oncology, Biology and Physics ( <b>JIF 4.370</b> )
20.	Journal of Cancer Research and Clinical Oncology ( <b>JIF 3.001</b> )
21.	Journal of Molecular signaling ( <b>JIF 2.31</b> )
22.	Journal of Pediatric Biochemistry
23.	Journal of the royal society interface ( <b>JIF 3.856</b> )
24.	Molecular Carcinogenesis ( <b>JIF 3.164</b> )
25.	Mutation Research - Genetic Toxicology and Environmental Mutagenesis . ( <b>JIF 3.175</b> )
26.	Nephrology ( <b>JIF 1.454</b> )
27.	Nutrition and Cancer: An International Journal ( <b>JIF 2.784</b> )
28.	Oncotargets and Therapy ( <b>JIF 2.047</b> )
29.	Physiological Genomics ( <b>JIF 3.260</b> )
30.	PLOS ONE ( <b>JIF 4.015</b> )
31.	Proteomes
32.	Scientific Journals International

33. World Journal of Surgical Oncology (**JIF 1.120**)

### National/International Service

#### Grant Peer Reviews and Study Sections

1. 2009 Member, NIH-CSR Special Emphasis Panel 2009/10 ZRG1 BDA-A (58) RFA OD09-003: NIH Challenge Grant Panel #10; 7/2009, SRA = Sherry Dupere.
2. 2009 Reviewer, Hungarian Scientific Research Fund (OTKA): OTKA scientific review 2009-10-05 13:22:03 – Basic Sciences and Humanities.
3. 2012 Reviewer, The Portuguese Foundation for Science and Technology (FCT)FCT-SIG PTDC/BIM-MEC/0474/2012.
4. 2013 Reviewer, The Portuguese Foundation for Science and Technology: FCT Investigator Call -recruiting and retaining high-achieving scientific researchers at different career stages in Portugal.

#### Abstracts Peer review for Student Caucus of American Association for Cancer Research

- ✚ 2015 Reviewed **86 abstracts** in the fields of *Carcinogenesis, Prevention Research, Cancer Chemistry, Clinical Research, Immunology, Experimental and Molecular Therapeutics, Tumor Biology, Molecular and Cellular Biology* for the 10<sup>th</sup> Annual AACR Undergraduate Student Caucus, AACR Science Education Committee.
- ✚ 2013 Reviewed **80 abstracts** in the fields of *Carcinogenesis, Prevention Research, Cancer Chemistry, Clinical Research, Immunology, Experimental and Molecular Therapeutics, Tumor Biology, Molecular and Cellular Biology* for the 8<sup>th</sup> Annual AACR Undergraduate Student Caucus, AACR Science Education Committee.
- ✚ 2012 Reviewed **82 abstracts** in the fields of *Carcinogenesis, Prevention Research, Cancer Chemistry, Clinical Research, Immunology, Experimental and Molecular Therapeutics, Tumor Biology, Molecular and Cellular Biology* for the 7<sup>th</sup> Annual AACR Undergraduate Student Caucus, AACR Science Education Committee.

#### International Junior Research Faculty Supervision

- ✚ 2010-2012 Mentored *Dr. Marwa S. Abou El-eneen*, Lecturer (Assistant Professor), Department of Radiation Science, Alexandria University, Egypt, on individual research project.

#### Adjudication for Students/Scholars Scientific Presentations

- ✚ 2015 Served as the '*Judge*' for the Dr. David Watson Graduate student/Postdoctoral fellow poster competition in NASA Human Research Program Investigators' Workshop.
- ✚ 2015 American Association for Cancer Research 10<sup>th</sup> Annual Undergraduate Student Caucus and Poster Competition, April 18, Philadelphia, PA.
- ✚ 2013 American Association for Cancer Research 8<sup>th</sup> Annual Undergraduate Student Caucus and Poster Competition, April 6, 2013, Washington, D.C.
- ✚ 2012 American Association for Cancer Research 7<sup>th</sup> Annual Undergraduate Student Caucus & Poster Competition, March 31, 2012, Chicago, IL.
- ✚ 2010 International Conference on Women and Child Malignancies (ICWCM), Gandhi Medical College, Barkatulla University, Bhopal, MP, India.

### HONORS AND AWARDS

2014 Laboratory Research received **Radiation Research Society Scholar-in-training Award** (Ramraj SK), Las Vegas, NV

- 2014 Laboratory Research received **Radiation Research Society Scholar-in-training Award** (Pandian V), Las Vegas, NV
- 2013 Laboratory Research received **Radiation Research Society Scholar-in-training Award** (Khan FH), New Orleans, LA
- 2013 Laboratory Research received **European Radiation Research Society Scholar-in-training Award** (Pandian V), Dublin, Ireland
- 2013 Laboratory Research received **Radiation Research Society Scholar-in-training Award** (Ramraj SK), New Orleans, LA
- 2013 Laboratory Research received **Radiation Research Society Scholar-in-training Award** (Krishnan M), New Orleans, LA, USA
- 2011 Laboratory research received **International Congress on Radiation Research Scholar-in-training Award** (Veeraraghavan J), Warsaw, Poland.
- 2010 Laboratory Research received **Radiation Research Society Scholar-in-training Award** (Madhusoodhanan R), Maui, Hawaii.
- 2009 Laboratory Research received **Radiation Research Society Scholar-in-training Award** (Shanmugasundaram, K), Savannah, GA.
- 2009 Laboratory Research received **Radiation Research Society Scholar-in-training Award** (Veeraraghavan, J), Savannah, GA.
- 2009 Laboratory Research received **Radiation Research Society Scholar-in-training Award** (Tamfu CR), Savannah, GA.
- 2009 Inducted in **Marquis Who's Who in America**, New Providence, New Jersey, USA
- 1996-1999 **Fellow of Indian Council of Agricultural Research (ICAR)**, Department of Science and Technology, Government of India, New Delhi, India
- 1989 **N. R. Venkataraman Prize Fund** for outstanding scoring at senior level, Ilango Adigal Government Higher Secondary School, Pondicherry, India.

#### PROFESSIONAL MEMBERSHIPS

- |     |                |  |
|-----|----------------|--|
| 1.  | 2004 - To date | Active member, American Association of Cancer Research (AACR)  |
| 2.  | 2005 - 2013    | Affiliate member, American Society of Anesthesiologists (ASA)  |
| 3.  | 2006 - 2013    | Oklahoma Society of Anesthesiologists (OSA)                    |
| 4.  | 2006 - To date | Member, Radiation Research Society (RRS)                       |
| 5.  | 2007 - To date | Member, European Association of Cancer Research (EACR)         |
| 6.  | 2008 - To date | Active Member, AACR-Minorities in Cancer Research              |
| 7.  | 2008 - To date | Active Member, AACR-Chemistry in Cancer Research Working Group |
| 8.  | 2008 - To date | Active member, AACR-Tumor Microenvironment                     |
| 9.  | 2008 - To date | Active member, AACR-Cancer Immunology Working Group            |
| 10. | 2006 - 2006    | Member, American Society of Nephrology (ASN)                   |
| 11. | 2005 - 2006    | Affiliate member, Texas Society of Anesthesiologists (TSA)     |
| 12. | 2005 - 2006    | Member, American Association for Advancement of Science (AAAS) |
| 13. | 2002 - 2006    | Member, Society of Critical Care Medicine (SCCM)               |

#### PROFESSIONAL GROWTH AND DEVELOPMENT

##### Scientific Conferences Attended (Listed only 2006-To date):

- 2015
  - Conference on Normal Tissue Radiation Effects and Countermeasures (CONTREC), May 6-9, 2015, Little Rock, AK
  - 106<sup>th</sup> Annual Meeting of the American Association for Cancer Research; April 18-22, 2015, Philadelphia, PA
  - NASA – Human Research Program: Investigators Workshop – Integrated pathways to Mars; February 12-13, Galveston, TX
- 2014
  - 60th Annual Meeting of the Radiation Research Society, September 21-24, Las Vegas, NV.
  - 105<sup>th</sup> Annual Meeting of the American Association for Cancer Research; April 5-9, San Diego, CA
- 2013
  - 36<sup>th</sup> Annual San Antonio Breast cancer symposium, December 10-13, San Antonio, Texas, USA
  - 104th Annual Meeting of the American Association for Cancer Research; Apr 6-10; Washington, DC
  - 59<sup>th</sup> Annual Meeting of Radiation Research Society, September 15-19, New Orleans, LA
  - Stephenson Cancer Center 2<sup>nd</sup> Annual Research Symposium, March 29, Oklahoma City, OK
  - 1<sup>st</sup> AACR Special conference of Tumor Invasion and Metastasis; 2013 Jan 20-23; San Diego, CA.
- 2012
  - 103<sup>rd</sup> Annual Meeting of the American Association for Cancer Research; April 1-4, 2012; Chicago, IL
  - 58th Annual Meeting of the Radiation Research Society; September 30–October 3; Puerto Rico
- 2011
  - 102<sup>nd</sup> Annual Meeting of the American Association for Cancer Research (AACR); April 2-6, 2011; Orlando, FL
  - 34<sup>rd</sup> CTCR-AACR San Antonio Breast cancer symposium, December 6-10, San Antonio, TX
  - 14<sup>th</sup> International Congress of Radiation Research, August 28<sup>th</sup> to September 1, 2011, Warsaw, Poland
- 2010
  - 101st Annual Meeting of the American Association for Cancer Research; April 17-21, 2010; Washington, DC
  - XVII International Hypoxia Symposia, February 15-20, 2011, Lake Louise, Alberta, Canada
  - 33<sup>rd</sup> Annual San Antonio Breast cancer symposium, December 8-12, 2010, San Antonio, Texas, USA
  - 56th Annual Meeting of the Radiation Research Society; September 25–29, 2010; Maui, Hawaii
- 2009
  - 55th Annual Meeting of the Radiation Research Society; October 4-7, Savannah, GA
  - 32<sup>nd</sup> Annual San Antonio Breast cancer symposium, December 9-13, 2009, San Antonio, Texas, USA
  - 100th Annual Meeting of the American Association for Cancer Research; April 18-22; Denver, CO
- 2008
  - 54<sup>th</sup> Annual Meeting of the of the Radiation Research Society; September 21-24, Boston, MA
- 2007
  - 28<sup>th</sup> Annual Congress of Indian Association for Biomedical Scientists, September 20-22, Tiruchirapalli, TN, India
  - 13<sup>th</sup> International Congress of Radiation Research Annual meeting; July 7-8, 2007, San Francisco, CA
  - 98th Annual Meeting of the American Association for Cancer Research; April 14-18; Los Angeles, CA
- 2006
  - 53<sup>rd</sup> Annual meeting of the Radiation Research Society, November 5-8, Philadelphia, PA

### **Continuing Education**

- 2015 Credential Medical Evaluation (CME): Genomic Investigations in Childhood Cancers: *In the session* Recent advances in Diagnostics and Therapeutics Research. April 19, 2015. Held in conjunction with AACR Annual Meeting 2015, Philadelphia, PA
- 2006 Credential Medical Evaluation (CME): Improving the therapeutic ratio: Integrating imaging, radiation technology and pharmacologic strategies. Held in conjunction with 48th Annual ASTRO meeting, Nov 5,
- 2005 SNP genotyping with illumina bead array platform, USDA/ARS Children's Nutrition Research Center, Baylor College of Medicine, Houston, TX.
- 2004 Pathway specific microarray, University of Texas M.D. Anderson Cancer Center, Houston, TX
- 2002 Cytogenetic technology - DNA Cloning, KT Biotechnology and University of Texas M.D. Anderson Cancer Center, Houston, TX

2002	Cytogenetic technology - Quantitative real time PCR, KT Biotechnology and University of Texas M.D. Anderson Cancer Center, Houston, TX
2001	"Gamma Cell", Department of Radiation Oncology, University of Texas Health Science Center at San Antonio, San Antonio, TX, USA
2001	Twenty hour radioisotope user's safety training course, South Texas VA Medical center and University of Texas Health Science Center at San Antonio, San Antonio, TX, USA
2000	Molecular Techniques, Department of Molecular Genetics, Andhra University, Visakhapatnam, AP, India.
2000	Plasmid preparation, Jawaharlal Nehru Institute of Post-graduate Medical Education and Research, Pondicherry, India.
2000	HIV detection: Immunosensitive tests and dry dot method, Jawaharlal Nehru Institute of Post-graduate Medical Education and Research, Pondicherry, India. Pondicherry, India.
1994	Culture, isolation & characterization of pathogenic bacteria, Jawaharlal Nehru Institute of Post-graduate Medical Education and Research, Pondicherry, India. Pondicherry, India.

#### Refresher Courses:

- ✚ **Educational and Statistical Programs:** Endnote, GE Array Analyzer, Gene Call, Meta View, Scanalyze, Graph Pad Prism, SPSS, Cluster, Tree view, PRIMER, STATISTICA, Stat-View, Image quant 1D gel analysis, Image quant microarray analysis etc.

#### Orientation Courses

<u>Date</u>	<u>Description</u>	<u>Credit Hours</u>
10/2/2010	"104 CPR Awareness and Public Access Defibrillation Program" Oklahoma City VA medical Center	0.50
10/2/2010	"001 Mandatory U.S. Constitution" Oklahoma City VA medical Center	0.50
10/2/2010	"070 VA Research Data Security and Privacy" Oklahoma City VA medical Center	1.00
10/2/2010	"0014 Mandatory Recognition and Protection of patients from abuse /neglect" Oklahoma City VA medical Center	1.00
10/2/2010	"0010 Mandatory Preventing Sexual Harassment" Oklahoma City VA medical Center	2.00
10/2/2010	"080 Mandatory Patient Safety 2010" Oklahoma City VA medical Center	1.00
10/2/2010	"022 Mandatory Infection Control" Oklahoma City VA medical Center	1.00
10/2/2010	"0013 Mandatory Occupational Safety and Health" Oklahoma City VA medical Center	1.00
10/2/2010	"042 Mandatory GEMS Awareness 2009" Oklahoma City VA medical Center	1.00
10/2/2010	"0009 Mandatory EEO Discrimination Process" Oklahoma City VA medical Center	
10/2/2010	"089 Reasonable Accommodation" Oklahoma City VA medical Center	1.00
10/2/2010	"0002 Mandatory Culture/Diversity" Oklahoma City VA medical Center	1.00
10/2/2010	"0005 Mandatory Compliance Awareness" Oklahoma City VA medical Center	1.00
10/2/2010	"0004 Mandatory Blood Borne Pathogens" Oklahoma City VA medical Center	1.00
10/3/2010	"0014 Mandatory Environment of Care (EOC) FY09" Oklahoma City VA medical Center	1.00
10/2/2010	"004 Pain management Training for Providers" Oklahoma City VA medical Center	2.00

10/2/2010 "0003 Mandatory Alternative dispute Resolution/Mediation" Oklahoma City VA medical Center 1.00

### Mandatory Annual Trainings:

2006-2014 *Blood borne pathogens, Personal protective equipment, Regulated medical waste shipping and security awareness,* College of Medicine, OU Health Sciences Center, Oklahoma city, OK  
*Hazard communication,* College of Medicine, OU Health Sciences Center, Oklahoma city, OK  
*Laboratory safety, Personal protective equipment, Regulated medical waste shipping and security awareness,* College of Medicine, OU Health Sciences Center, Oklahoma city, OK  
*"Introduction to Mice" on AALAS learning library,* College of Medicine, OUHSC, OK  
*"Working with the IACUC" on the AALAS learning library,* OU Health Sciences Center, OK  
*Fire safety,* College of Medicine, OU Health Sciences Center, Oklahoma city, OK  
*Health Insurance Portability and Accountability Act Security,* College of Medicine, OU Health Sciences Center, Oklahoma city, OK.  
*Small Animal Surgery,* College of Medicine, OU Health Sciences Center, Oklahoma city, OK  
*Animal care and use training program,* IACUC, OU Health Sciences Center, Oklahoma city, OK  
*Compliance awareness,* College of Medicine, OU Health Sciences Center, Oklahoma city, OK  
*Gamma Cell Safety,* College of Medicine, OU Health Sciences Center, Oklahoma city, OK.  
*Radiation Safety,* College of Medicine, OU Health Sciences Center, Oklahoma city, OK  
*Sexual harassment and discrimination awareness,* College of Medicine, OU Health Sciences Center, Oklahoma city, OK  
 OK

### Community Service

- ✚ Deputy Program Assistant "National Service Scheme, Unit III", Pondicherry, India
- ✚ Volunteer "National Service Scheme Unit III", Pondicherry, India.
- ✚ Group Leader "Youth for rural and Literacy development", Pondicherry, India.
- ✚ Participant "Socio Economic survey" TVS Whirlpool, Pondicherry, India.
- ✚ Participant "National Integration Camp" Department of Youth Affairs and sports, Government of India, Ravishankar University, Raipur, MP, India.
- ✚ Group Leader "Youth for rural and Literacy development" Pondicherry, India.
- ✚ Green Thumb Award, Sify in greening our environment. Sify.Com.

### OTHER

#### **Local/ Regional Conferences attended (Listed only 2006-To date)**

1. 2009 – 2013 34<sup>th</sup>, 35<sup>th</sup>, 36<sup>th</sup>, 37<sup>th</sup>, 38<sup>th</sup>, Annual Graduate Research Education and Technology Symposiums. University of Oklahoma Health Sciences Center, Oklahoma City, OK.
2. 2011 1<sup>st</sup> Peggy and Charles Stephenson Cancer Center Cancer Research Retreat. November 18, 2011. Oklahoma City, OK
3. 2009 - 2011 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>, 13<sup>th</sup>, Annual Paul Kimmelstiel Graduate Student Award for Excellence in Research and Presentation Skills. Department of Pathology, University of Oklahoma Health Sciences Center, Oklahoma City, OK.

4. 2007 – 2013 Annual OUHSC Summer Undergraduate Research Program (SURP)– Native American Research Center for Health (NARCH); Idea Network of Biomedical Research Excellence (INBRE) Research Retreat. University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA
5. 2012 Tumor Microenvironment and Drug Discovery Conference, December 3, Samis Family Education Center, University of Oklahoma Health Sciences Center, Oklahoma City, OK

***Last Updated on June 2015***