

## **Asaithamby Aroumougame (a.k.a. Thambi)**

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### **Professional Summary**

Associate Professor with over 20 years of research experience in radiation biology, DNA repair pathways, and DNA damage response (DDR) signaling. Possesses more than a decade of expertise in radiation effects on cardiomyocyte function and the regulation of innate immune signaling by DDR factors. Supervised 3 research scientists, 9 post-doctoral fellows, 7 Ph.D. dissertations, and 7 high school/undergraduate students. Authored 47 research papers, 9 review articles in peer-reviewed journals, and 2 book chapters.

### **Core Expertise**

- Radiation Biology
- DNA Repair
- DNA Damage Response (DDR) Signaling
- Radiation Countermeasure Drug Development
- Premature Aging
- Galactic Cosmic Rays Biology
- DNA Damage Response in Cardiomyocytes
- Fluorescence and Confocal Microscopy (Live Cell/Tissue Imaging)
- Molecular Cloning
- Immunohistochemistry
- Student Mentoring
- Collaborative Research and Grant applications writing

### **Professional Appointments**

#### **Associate Professor (Tenured)**

*Department of Radiation Oncology, University of Texas Southwestern Medical Center, Dallas, TX*

*September 2020 – Present*

- Mentor Ph.D. students and supervise post-graduate research fellows.
- Teach radiation biology to MD and Physics residents.
- Engage in recruiting MD and Ph.D. students to UTSW.
- Conduct research and write grant applications at federal and state levels.

#### **Assistant Professor (Tenure-Accruing)**

*Department of Radiation Oncology, University of Texas Southwestern Medical Center, Dallas, TX*

*September 2013 – August 2020*

- Focused on radiation biology, DNA repair, and premature aging.
- Researched DDR factors in cGAS-STING-mediated immune signaling and the effects of radiation on cardiomyocytes.
- Explored the biology of heavy ion particles and cancer treatment.

#### **Assistant Professor (Research Track)**

*Department of Radiation Oncology, University of Texas Southwestern Medical Center, Dallas, TX*

*September 2009 – August 2013*

- Investigated radiation biology, DNA repair, premature aging, and the consequences of galactic cosmic rays on astronaut health.

**Instructor (Research Track)**

*University of Texas Southwestern Medical Center, Dallas, TX*

*September 2004 – August 2009*

- Conducted research on DNA damage response signaling, genome stability, premature aging, and galactic cosmic rays' effects on astronaut health.

**Post-doctoral Fellow**

*Lawrence Berkeley National Laboratory, CA*

*January 2000 – August 2004*

- Researched steroid hormone receptors in breast cancer and DNA damage in cancer and aging.

**Education**

**Doctor of Philosophy (Ph.D.)**

*Banaras Hindu University, India*

*August 1999*

Thesis Title: Steroid Hormone Receptors in Brain Aging

**Publications**

<https://www.ncbi.nlm.nih.gov/myncbi/asaithamby.aroumougame.1/bibliography/public/>