

Devendra Sawant, M.D., Ph.D.
St. Jude Children's Research Hospital
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1. Current Position at St Jude

Assistant Member, Diagnostic Imaging St. Jude Children's Research Hospital Memphis, TN 38105	01/2023 – present
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2. Education and Training

MBBS, University of Pune, Rural Medical College, Loni, Maharashtra, India	08/1994 – 12/2000
MPH, Texas A&M University Health Science Center, School of Rural Public Health College Station, Texas	01/2004 – 05/2007
Ph.D., Texas A&M University Health Science Center, School of Graduate Studies Temple, Texas	08/2008 – 07/2012
Transitional Year Residency Broward Health Medical Center Fort Lauderdale, Florida	07/2017 – 06/2018
Nuclear Medicine Residency University of Miami / Jackson Memorial Hospital Miami, Florida	07/2018 – 06/2021
Nuclear Oncology Fellowship Memorial Sloan Kettering Cancer Center New York, New York	08/2021 – 07/2022

3. Certifications

Educational Commission for Foreign Medical Graduates (ECFMG),	02/2005
The University of the State of New York, Education Department – Conferred MD Degree,	11/2022
Advanced Cardiovascular Life Support	12/2022 – 12/2024

4. Licensure

Tennessee State Full Medical License # 66742	11/23/2022 – 11/30/2023
New York State Full Medical License # 312200	07/22/2021 – 06/30/2023
Florida State Medical Training License TRN # 24254	06/2017 – 07/2021

5. Key Expertise Summary

Radionuclide Therapy: Sodium Iodide I-131; Quadramet: Sm-153 Lexidronam; Lutathera: Lu-177 Dotatate; Xofigo: Ra-223 Dichloride; Pluvicto: Lu-177 Vipivotide tetraxetan

Molecular Imaging: F-18 FDG, Ga-68 Dotatate, Ga-68 PSMA, F-18 Fluciclovine (Axumin) PET/CT, PET Brain Amyloid, PET/CT for Sarcoidosis, PET/CT for Dementia, F-18 NaF PET, SPECT/CT for Cardiac Amyloidosis, SPECT Brain DaTscan, and Octreoscan

Myocardial Perfusion Imaging: Tc-99 Sestamibi / Tetrofosmin with SPECT and N-13 Ammonia / Rb-82 with PET/CT

General Nuclear Medicine Imaging: MIBG, HIDA, Renal, Bone, VQ, Thyroid / Parathyroid, WBC, Gastric Emptying, GI bleed, Liver-Spleen scans, Salivagram, Radionuclide Ventriculography (MUGA) and Lymphoscintigraphy

Basic Biomedical Research: Rodent Models, Cell cultures, Intravital Microscopy, Confocal Laser Scanning Microscopy, Immunofluorescence staining, Flow cytometry, Cell Transfection, Western Blot, Cell-based assays, and Immunoassays

6. Professional Career

Clinical Internship Lokmanya Tilak Municipal General Hospital & Medical College, Mumbai, Maharashtra, India	08/1999 - 07/2000
Medical Doctor, Sai Clinic and Pathology Laboratory, Bhiwandi, Thane, Maharashtra, India	08/2000 -12/2003
Master of Public Health (MPH) Graduate Student, Texas A&M University HSC, School of Rural Public Health College Station, Texas	01/2004 – 05/2007
Public Health Internship, Occupational Health Services St. Joseph Medical Center, College Station, Texas	01/2007 - 04/2007
PhD Graduate Assistant, Texas A&M University Health Science Center School of Graduate Studies / Scott & White Memorial Hospital Temple, Texas	08/2008 – 07/2012
Post- Doctoral Research Fellowship Morehouse School of Medicine Atlanta, Georgia	08/2012 – 07/2013
Post-Doctoral Research Fellowship West Virginia University School of Medicine Morgantown, West Virginia	08/2013 – 04/2014

Assistant Professor, Program Director, Master of Science in Anatomy Chair, School of Anatomical Science, College of Medical Science, Alderson Broaddus University Philippi, West Virginia	05/2014 – 06/2017
Transitional Year Residency Broward Health Medical Center Fort Lauderdale, Florida	07/2017 – 06/2018
Nuclear Medicine Residency University of Miami / Jackson Memorial Hospital Miami, Florida	07/2018 – 06/2021
Nuclear Oncology Fellowship Memorial Sloan Kettering Cancer Center New York, New York	08/2021 – 07/2022
Clinical Research Fellowship Sloan Kettering Institute / Memorial Sloan Kettering Cancer Center New York, New York	08/2022 – 12/2022
Assistant Member, Diagnostic Imaging St. Jude Children's Research Hospital Memphis, Tennessee	01/2023 – present

7. Professional Memberships

Sigma Xi; The Scientific Research Honors Society
Member of Center for Disease Control and Prevention (CDC) Chapter
Atlanta, Georgia

Society of Nuclear Medicine and Molecular Imaging (SNMMI)

American College of Nuclear Medicine (ACNM)

American College of Radiology (ACR)

8. Editorial Board Appointments

i. Journal Editorial Board

Associate Editor for Journal of Medical Case Reports

International Journal of Applied and Basic Medical Research- (Prior)

Clinical Case Reports – (Prior)

ii. Journal Reviewer

PLOS-ONE

Clinical Anatomy

Journal of Chemical Neuroanatomy

Journal of Trauma and Acute Care Surgery – Basic Science Section.

9. Honors and Awards

Rank first in Pathology, Rural Medical College, University of Pune, Loni, MH, India.	1998
South Texas Environmental Education and Research Scholarship MPH Graduate Program School of Rural Public Health, Texas A&M University Health Science Center College Station, TX.	2006
Research Assistantship in the Graduate PhD program, School of Graduate Studies, Texas A&M University HSC, College of Medicine Temple, TX.	2008
Mentored Research Award for Graduate Research Student, Scott & White Hospital, Texas A&M University HSC, College of Medicine, Temple, TX.	2010
Certificate at the Poster Presentation during The Curtis L. Parker Research Symposium, Morehouse School of Medicine Atlanta, GA.	2013
Best Faculty Award nominated by the students, School of Physician Assistant Studies, Alderson Broaddus University College of Medical Science Philippi, WV.	2014, 2015
Appalachian College Association Travel Grant for the Faculty Member for presenting their research at Regional, National and International Conferences, ACA Richmond, KY.	2015
Panel member of 'Anatomy Curriculum Content Task Force' for medical education in the United States of America, an academic initiative started by American Association of Anatomist.	2015
Committee of Institutional Review Board Member Alderson Broaddus University, Philippi, WV.	2016-2017
Invited Guest Lecture, "Strategies to Attenuate Microvascular Hyperpermeability" Krishna Institute of Medical Sciences, Karad, MH, India.	2020

10. Grant Awards

A. Completed Grants

Research Grant Program, Scott & White Memorial Hospital, Temple, TX, USA. "Attenuation of Vascular Hyperpermeability by Inhibiting VE-cadherin Degradation" 05/2010 – 05/2012; - \$ 5000.00, as Principal Investigator.	2010
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- West Virginia Idea Network of Biomedical Research Excellence, (WV-INBRE) 2015
Grant Program- Chronic Disease Research Program (CDRP),
2015 - \$25,000.00- Received as Principal Investigator.
- West Virginia Idea Network of Biomedical Research Excellence, (WV-INBRE) 2016
Grant Program- Biomedical Research Laboratory Equipment Grant,
2016 - \$25,000.00-Received.

11. Publication Record

1. **Sawant DA**, Tharakan B, Adekanbi A, Hunter FA, Smythe WR, Childs EW. Inhibition of VE-Cadherin Proteasomal Degradation Attenuates Microvascular Hyperpermeability. *Microcirculation*. 18 (1):46-55, Jan 2011. PMID: 21166925[PubMed].
2. **Sawant DA**, Tharakan B, Hunter FA, Smythe WR, Childs EW. Role of β -catenin in Regulating Vascular Endothelial Cell Hyperpermeability. *Journal of Trauma and Acute Care Surgery*. 70 (2):481-7, Feb 2011. PMID: 21307750[PubMed].
3. Tharakan B, Hellman J, **Sawant DA**, Tinsley JH, Parrish AR, Hunter FA, Smythe WR, Childs EW. β -Catenin Dynamics in the Regulation of Microvascular Endothelial Cell Hyperpermeability. *Shock*. 37(3):306-11, Mar 2012. PMID: 22089197[PubMed].
4. Stagg HW, Bowen KA, **Sawant DA**, Rodriguez M, Tharakan B, Childs EW. Tumor Necrosis Factor Related Apoptosis Inducing Ligand Promotes Microvascular Endothelial Cell Hyperpermeability via Phosphatidylinositol 3-Kinase Pathway. *American Journal of Surgery*. 205(4):419-425, Jan 2013. PMID: 23375756[PubMed].
5. **Sawant DA**, Tharakan B, Tobin RP, Reilly J, Hunter FA, Newell MK, Smythe WR, Childs EW. Microvascular Endothelial Cell Hyperpermeability Induced by Endogenous Caspase-3 Activator Staurosporine. *Journal of Trauma and Acute Care Surgery*, 74(2):516-523 Feb 2013. PMID: 23354245[PubMed].
6. **Sawant DA**, Tharakan B, Tobin RP, Stagg HW, Hunter FA, Newell MK, Childs EW. Inhibition of Fas-Fas Ligand Interaction Attenuates Microvascular Hyperpermeability Following Hemorrhagic Shock. *Shock*.39(2):161-167, Feb 2013. PMID: 23324886[PubMed] PMCID: PMC3640556.
7. **Sawant DA**, Tharakan B, Wilson RL, Stagg HW, Hunter FA, Childs EW. Regulation of Tumor Necrosis Factor - α -Induced Microvascular Endothelial Cell Hyperpermeability by Recombinant B-Cell Lymphoma – Extra-large. *Journal of Surgical Research*. 184(1):628-637, Sept 2013. PMID: 23731686[PubMed] PMCID: PMC3759616.
8. Alluri H, Stagg HW, Wilson RL, Clayton RP, **Sawant DA**, Beeram MR, Davis ML, Tharakan B. Reactive oxygen species-caspase-3 relationship in mediating blood-brain barrier endothelial cell hyperpermeability following oxygen-glucose deprivation and reoxygenation. *Microcirculation*, 21(2):187-95, Feb 2014. PMID: 24372803[PubMed].
9. **Sawant DA**, Tharakan B, Hunter FA, Childs EW. Role of Intrinsic Apoptotic Signaling in Microvascular Endothelial Cell Barrier Dysfunction. *Journal of Cardiovascular and Translational Research*, 7(8):711-8, Nov 2014. PMID: 25277298[PubMed].
10. **Sawant DA**, Wilson RL, Tharakan B, Stagg HW, Hunter FA, Childs EW. Tumor necrosis factor- α -induced microvascular endothelial cell hyperpermeability: role of intrinsic apoptotic signaling. *Journal of Physiology and Biochemistry*. 70(4):971-80, Dec 2014. PMID: 25392259[PubMed].
11. **Sawant DA**, Tharakan B, Hunter FA, Childs EW. Glycogen Synthase Kinase-3 Inhibitor Protects Against Microvascular Hyperpermeability Following Hemorrhagic Shock. *Journal of Trauma and Acute Care Surgery*, 2015 79(4):609-616, Oct 2015. PMID: 26402535 [PubMed] PMCID: PMC4582429.
12. **Sawant DA**, Moore T. An Unusual Course of Segmental Renal Artery Displays a Rare Case of Hilar Nutcracker Phenomenon. *Case Reports in Medicine*, 2015;2015:249015. PMID: 26448765 [PubMed] PMCID: PMC4584064.

13. Tharakan B, McNeal Jr SI, Hunter FA, **Sawant DA**, Smythe WR, Childs EW. Recombinant Bcl-xl Attenuates Vascular Hyperpermeability in a Rat Model of Hemorrhagic Shock. *Cell Death Discovery, Nature Publication Group* (2015) 1, 15042; doi:10.1038/cddiscovery. 2015. 42, Nov 2015. PMID: 27042339 [PubMed] PMCID: PMC4816600.
14. **Sawant DA**, Moore TA, Cashell AW. A Cadaveric Case Report of Dual Thyroid: Ectopic and Normal Location Thyroid with Brief Review of Literature. *Endocrinology and Metabolism International Journal*. 2018;6(3):201- 206. doi: 10.15406/emij.2018.06.00175.
15. Jia LY, Xia HL, Chen ZD, Compton C, Bucur H, **Sawant DA**, Rankin GO, Li B, Tu YY, Chen YC. Antiproliferation Effect of Theasaponin E1 on the ALDH-Positive Ovarian Stem-Like Cancer Cells. *Molecules*. 2018 Jun 17;23(6):1469. doi: 10.3390/molecules 23061469. PMID: 29914196 [PubMed] PMCID: PMC6057729.
16. **Sawant DA**, Razmaria AA, Pandit-Taskar N. Prolonged generalized immune response on 18F-FDG PET/CT following COVID-19 vaccination. *Radiol Case Rep*. 2023 May 23;18(8):2552-2557. doi:10.1016/j.radcr.2023.04.046. PMID: 37250482 [PubMed] PMCID: PMC10202611

12. Presentations

A. Oral Presentations

1. McKenzie JR, Tharakan B, **Sawant DA**, Whaley JG, Hunter FA, Smythe W.R, Childs EW. Staurosporine induces brain microvascular endothelial Cell hyperpermeability through intrinsic apoptotic signaling pathway. 6th Annual Academic Surgical Congress meeting, February 01-03, 2011, Huntington Beach, CA.
2. **Sawant DA**, Tharakan B, Hunter FA, Childs EW. β -catenin cleavage and microvascular endothelial cells hyperpermeability induced by staurosporine. 6th Annual Academic Surgical Congress meeting, February 01-03, 2011, Huntington Beach, CA.
3. **Sawant DA**, Tharakan B, Stagg HW, Hunter FA, Childs EW. Inhibition of Fas-Fas Ligand Interaction Attenuates Microvascular Hyperpermeability Following Hemorrhagic Shock. 7th Annual Academic Surgical Congress meeting; February 14-16, 2012, Las Vegas, NV.
4. Janicek A, Tharakan B, **Sawant DA**, Hunter FA, Childs EW. Lipopolysaccharide-induced Endothelial Cell Hyperpermeability: Role of Mitochondrial Apoptotic Signaling Pathway. 7th Annual Academic Surgical Congress meeting; February 14-16, 2012, Las Vegas, NV.
5. **Sawant DA**, Tharakan B, Wilson RL, Hunter FA, Childs EW. Recombinant Bcl-xL Attenuates TNF- α Induced Microvascular Endothelial Cell Hyperpermeability. 8th Annual Academic Surgical Congress meeting, February 05-07, 2013, New Orleans, LA.

B. Poster Presentations

1. **Sawant DA**, Chen H. Neuroendocrinal and cardiovascular homeostasis during pregnancy. Graduate Student Research Symposium, Dept of System Biology and Translational Medicine, Texas A&M University Health Science Centre, College of Medicine, May 2009, Temple, TX.
2. **Sawant DA**, Chen H. Immunological and endocrinal changes during parturition. Graduate Student Research Symposium, Dept of System Biology and Translational Medicine, Texas A&M University Health Science Centre, College of Medicine, December 2009, Temple, TX.
3. Tharakan B, **Sawant DA**, Whaley JG, Hunter FA, Childs EW. Brain Microvascular Endothelial cell Hyperpermeability Following Traumatic Brain Injury: Role of Caspase-3 Activation. Federation of American Societies for Experimental Biology (FASEB), Experimental Biology Meeting, April 24-28, 2010, Anaheim, CA.

4. Childs EW, Tharakan B, Hunter FA, **Sawant DA**, Symthe WR. GSK-3 β Inhibition attenuates vascular hyperpermeability following hemorrhagic shock. Federation of American Societies for Experimental Biology (FASEB), Experimental Biology Meeting, April 24-28, 2010, Anaheim, CA.
5. **Sawant DA**, Tharakan B, Hunter FA, Childs EW. Activation of a β -catenin mediated Wnt signaling pathway in microvascular endothelial cells. Shock Society 34th Annual Meeting, June 12-15, 2010, Portland, OR.
6. Tharakan B, **Sawant DA**, Hunter FA, Childs EW. Role of caspase-3 in Beta-catenin activity in microvascular endothelial cell adherens junction. Shock Society 34th Annual Meeting, June 12-15, 2010, Portland, OR.
7. Tharakan B, **Sawant DA**, Hunter FA, Smythe W.R, Childs EW. Beta catenin cytoplasmic stabilization attenuates microvascular endothelial cell hyperpermeability. 9th World Congress of Microcirculation, September 06-09, 2010, Paris, France.
8. Tharakan B, **Sawant DA**, Hunter FA, Childs EW. Brain Microvascular Endothelial Cell Hyperpermeability Induced by Caspase-3 Activation, December 8-11, 2010, Cold Spring Harbor Laboratory Cold Spring Harbor, NY.
9. Tharakan B, **Sawant DA**, Reilly J, Hunter FA, Childs EW. Regulation of Blood Brain Barrier Endothelial Cell Hyperpermeability by Matrix Metalloproteinases; The 29th Annual National Neurotrauma Symposium, July 10-13, 2011, Hollywood Beach, FL.
10. Wilson RL, **Sawant DA**, Tharakan B, Hunter FA, Childs EW. TNF- α - induced microvascular endothelial cell hyperpermeability: Involvement of intrinsic apoptotic signaling. Society of Black Academic Surgeon, 21st Annual meeting, April 28- 30, 2011, Boston, MA
11. Stagg HW, Bowen KA, **Sawant DA**, Rodriguez M, Tharakan B, Childs EW. Tumor necrosis factor-related apoptosis-inducing ligand promotes microvascular endothelial cell hyperpermeability through phosphatidylinositol 3-kinase pathway, 22nd Annual Scientific Assembly of The Society of Black Academic Surgeons; April 12-14th 2012, Baltimore, MD.
12. Tharakan B, **Sawant DA**, Hunter FA, Childs EW. Differential Involvement of Tight Junction Associated Proteins in Regulating Blood-Brain Barrier Endothelial Cell Permeability. Federation of American Societies for Experimental Biology (FASEB), Experimental Biology Meeting, April 21-25, 2012, San Diego, CA.
13. Wilson RL, **Sawant DA**, Stagg HW, Davis ML, Smythe WR, Tharakan B. IL-1 β Induces Brain Microvascular Endothelial Cell Hyperpermeability Through Caspase-3. Federation of American Societies for Experimental Biology (FASEB), Experimental Biology Meeting, April 21-25, 2012, San Diego, CA.
14. **Sawant DA**, Tharakan B, Hunter FA, Childs EW. TNF- α - Induced Microvascular Endothelial Cell Hyperpermeability: Involvement of Intrinsic Apoptotic Signaling. The Curtis L. Parker Research Symposium, Morehouse School of Medicine, February 08-09, 2013, Atlanta, GA.
15. Alluri H, Clayton RP, **Sawant DA**, Stagg HW, Wilson RL, Tharakan B. Mitochondrial mechanisms that regulate blood-brain barrier endothelial cell hyperpermeability following oxygen-glucose deprivation and reoxygenation. Federation of American Societies for Experimental Biology (FASEB) Meeting, April 20-24, 2013, Boston, MA.
16. **Sawant DA**, Moore T. Serpentine Course of Renal Segmental Artery Display a Nutcracker Phenomenon: A Case Report. American Association of Anatomists Regional Meeting, October 11, 2014, Philadelphia, PA.
17. **Sawant DA**, Moore T. Accessory Thyroid Tissue and its Possible Clinical Implications. American Association of Anatomists (AAA) in Federation of American Societies for Experimental Biology (FASEB) Meeting, March 28-April 1, 2015, Boston, MA.
18. **Sawant DA**, Daniel K, Wang H, Landau EM. False Positive PET Scans After Chemo-Radiation Treatment for Oropharyngeal Cancer: A Case Report with Two Year Follow UP. Resident Research Day; May 04, 2018. Broward Health Medical Center, Fort Lauderdale, FL.