

CURRICULUM VITAE

NAIRA BAREGAMIAN, MD, MMS, FACS

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EDUCATION:

1995-1999 Bachelor of Arts, California State University Northridge (CSUN) Northridge, CA
1999-2003 Doctor of Medicine, St. George's University School of Medicine (SGUSOM), St. George's, Grenada
2005-2007 Master of Medical Science (MMS), Graduate School of Biomedical Sciences
University of Texas Medical Branch (UTMB), Galveston, TX

POST-GRADUATE TRAINING:

2003-2005 General Surgery Residency (PGY 1-2, categorical), Maimonides Medical Center, Brooklyn, NY
2005-2007 NIH T32 Research Fellowship (Years 1-2)
Mentors: B. Mark Evers, Dai H. Chung, UTMB, Galveston, TX
2007-2008 General Surgery Residency (PGY 3), UTMB, Galveston, TX
2008-2009 NIH T32 Research Fellowship (Year 3)
Mentors: B. Mark Evers, Dai H. Chung, UTMB, Galveston, TX
2009-2011 General Surgery Residency (PGY 4-5), UTMB, Galveston, TX
2011-2012 Fetal Surgery Fellowship, Cincinnati Children's Hospital Medical Center, Cincinnati, OH
2013-2014 Endocrine Surgery Fellowship, Yale University, New Haven, CT

LICENSURE AND CERTIFICATION:

2003-current Permanent ECFMG Certification, 2003, #0-626-157-2
2013-current American Board of Surgery (ABS), General Surgery, Certificate #058161
2014-current Medical Board of Tennessee, License #51740

ACADEMIC APPOINTMENTS:

2014-current Assistant Professor of Surgery (Endocrine Surgery)
Division of Surgical Oncology & Endocrine Surgery
Department of Surgery, Vanderbilt University Medical Center (VUMC), Nashville, TN
2014-current Assistant Professor of Surgery
Teaching Faculty
Vanderbilt University School of Medicine (VUSM), Nashville, TN

HOSPITAL APPOINTMENTS:

2014-current Attending Physician
Division of Surgical Oncology & Endocrine Surgery
Department of Surgery, Vanderbilt University Medical Center (VUMC), Nashville, TN

PROFESSIONAL ORGANIZATIONS:

INTRAMURAL

Vanderbilt Ingram Cancer Center (VICC), VUMC
Member, 2015 - Current

Elliott Newman Society, Vanderbilt University (VU)
Member, 2022 – Current

EXTRAMURAL

American College of Surgeons (ACS), 2003 - Current
Resident Education Committee (REC) Member, 2010-2012
Fellow Member, 2015 - Current

Association for Academic Surgeons (AAS), 2005 - Current
Publications Committee Member, 2017-2019

Society of American Gastrointestinal and Endoscopic Surgeons (SAGES), 2010-2014

Resident Education Committee Member

Association of Women Surgeons (AWS), 2005 - Current

Publications Committee Member, 2018-2020

Membership Services Committee Member, 2018-2020

American Association of Endocrine Surgeons (AAES), 2013 - Current

IT Committee Member, 2018-2019

Research Committee Member, 2019-2023

Guidelines and Emerging Therapeutics Committee Member, 2023-2026

Nashville Surgical Society (NSS), 2016 - Current

Member

Tennessee Chapter American College of Surgeons (TNACS), 2017 - Current

Councilor, Middle TN, 2019-2022

At-Large Director, Middle TN, 2020-2023

Chair, Diversity, Equity & Inclusion (DEI) Committee, 2020-2023

Abstract Reviewer, DEI & Disparity Session, 2022

Abstract Reviewer, Cancer Research Competition, 2023

Cancer Committee Member, 2020-2024

Founder, Dorothy Brown Surgical Scholarship for Underrepresented/Minority Medical Students, DEI, 2020 - Current

American Association for Cancer Research (AACR), 2018 - Current

Member

Von Hippel Landau (VHL) Alliance, 2020 - Current

Endocrine Surgery Clinical Advisor

American Armenian Medical Society (AAMS), 2021 – Current

Member

International Society of Innovative Technologies for Endocrine Surgery (ISITES), 2022 – Current

Member

International Medical Congress of Armenia (IMCA), 2023

Abstract Reviewer, Surgery Section

PROFESSIONAL ACTIVITIES:

INTRAMURAL

Leadership Positions

2015-current *Founder, Endocrine Neoplasia Biorepository, VUMC*

2016-2018 *EPIC Cohort Leader, VUMC*

2016-2018 *EPIC Leap Subject Matter Expert, VUMC*

2016-2018 *EPIC Leap Ambassador, VUMC*

2016-2018 *EPIC Peer Trainer, VUMC*

2019-current *Founder, Endocrine Neoplasia Laboratory, Baregamian Laboratory, VUMC*

2020-current *Cancer Liaison Physician (CLP), ACS Commission on Cancer (ACS CoC) for VICC, VUMC*

Advisory/Mentorship

2017-2018 *Basic Science Judge, Annual Research Forum, VU Graduate Medical Education (VU GME)*

2020-current *Endocrine Surgery VICC Clinical Advisor for the Von Hippel Landau (VHL) Alliance, VICC, VUMC*

2020-current *Endocrine Surgery Fellowship Faculty Advisor, Department of Surgery, VUMC*

2022-current *Surgery Interest Group Mentor, Surgery Mentorship Program, VUSM (Niketna Patel, Reilly Frankhauser)*

2022-current *Vanderbilt Global Surgery Faculty, VUMC*

Committees/Professional Groups

2020-current *Diversity & Inclusion Committee, Department of Surgery, VUMC*

2020-current *Clinical Cancer Committee (CCC), VICC, VUMC*

2021-current *Translational Research, and Interventional Oncology (TRIO) Research Group Member, VICC, VUMC*

EXTRAMURAL

Leadership Positions

2020-current **TNACS Board of Directors**
Chair, DEI Committee
At-Large Director, Middle TN
Councilor, Middle TN

2021 **3rd Symposium on Parathyroid Fluorescence**
Media Coordinator

Leadership Training

2023 **AAES Leadership Course**

Moderator

2019 **Academic Surgical Congress (ASC), 2019**
Moderator, Quick-Shot Oral Session

2020 **2nd Symposium on Parathyroid Fluorescence**
Moderator, Oral Session

Journal Editor

2021-current **Journal of Cellular and Molecular Medicine (JCMM)**
Associate Editor (Endocrine)

National Institutes of Health/National Cancer Institute (NIH/NCI) Reviewer

2022-current **NIH/NCI Early Career Reviewer (ECR)**
Clinical Oncology (CONC), Oncology Translational Clinical (OTC) Integrated Review Group (IRG)

Ad Hoc Reviewer

Journal of Clinical Investigations Insights (JCI Insights)

Journal of American College of Surgeons (JACS)

Surgical Endoscopy

World Journal of Surgery (WJS)

Journal of Surgical Research (JSR) Surgery

Cancer Research

Molecular Cancer Therapeutics

International Journal of Molecular Sciences

Journal of the Endocrine Society

Frontiers in Oncology

Nature Star Protocols

Journal of Cellular and Molecular Medicine (JCMM)

Cancer Letters

eLife

STAR Protocols

Honors & Awards

1999-2003 Academic Excellence Award, *Magna Cum Laude*, CSUN

2001 Medical Student Honors, Surgery Clerkship, SGUSOM

2006-2011 Best Basic Science Project, Singleton Surgical Society, UTMB

2006 Best Basic Science Project, 14th Annual Molecular Biology Symposium, UTMB

2009 John P. McGovern Academy of Oslerian Medicine Travel Grant, ACS

2018 TNACS Basic Science Competition (2nd place, Student: Kathleen Gallagher, VUSM, VUMC)

2019 TNACS Cancer Research Competition (1st place, Resident: Chelsea Isom, VUMC)

2019-2021 Paul LoGoerfo Research Award, AAES

2019-2022 Excellence in Patient Experience Award, VUMC

2020 TNACS Cancer Research Competition (1st place, Student: Jordan Baechle, Meharry Medical College)

2021-2024 SCRIPS Faculty Scholar Award, Burroughs Wellcome Fund Physician Scientist Institutional Award, VUMC

2021 NCI/VICC Multi-Tier Developmental Support Grant (P30CA068485), VICC, VUMC

2021 ACS CoC Research Competition Award (1st place, Resident: David Hanna), VUMC

- 2022 NCI/VICC Multi-Tier Developmental Support Grant (P30CA068485), VICC, VUMC
- 2022-2025 Vanderbilt Faculty Research Scholar Award (VFRS), VUSM, VUMC
- 2022 VICC 23rd Annual Scientific Retreat (Honorable Mention, Student: Sriram Cyr, VUSM), VUMC
- 2022 STAR BRIGHT Award, Vanderbilt Institute for Clinical and Translational Research (VICTR), 1st award, VICC
- 2022 STAR BRIGHT Award, Vanderbilt Institute for Clinical and Translational Research (VICTR), 2nd award, VICC

Public Media

- 2020 Baregamian Lab in the News: <https://www.vumc.org/surgical-oncology/baregamian-lab-news>
- 2021 "Thyroid Cancer Paper Lands National Recognition", VUMC Reporter, VUMC
- 2022 "Immune Landscape in Adrenal Cancer", Aliquotes, VUMC Reporter, VUMC
- 2022 "Molecule Irons Away Aggressive Thyroid Cancer Cells", DISCOVER, VUMC

TEACHING ACTIVITIES:

VUSM Courses

- 2014-current *Medical Student Core Surgery Rotation Lecturer*
- 2016-current *Clinical Mentor, Advanced Clinical Endocrinology for Medical Students*

VU Graduate School Courses

- 2019-2022 *Clinical Mentor, Vanderbilt Program in Molecular Medicine (VPMM) (Mentee: K Bergdorf, PhD candidate)*
- 2022-2024 *Clinical Mentor, ASPIRE Path in Molecular Medicine (Mentee: H Hartman, PhD candidate)*

VUMC Continuing Medical Education

- 2014-current *Lecturer, Endocrinology Fellow Teaching Conference*

CLINICAL TEACHING:

- 2014-current *Endocrine Surgery Rotation Teaching (PGY-3 residents, patient rounds, clinic and OR), VUMC*
- 2014-current *General Surgery Resident Teaching Conference Lecturer (2-3/year), VUMC*
- 2014-current *Surgical Oncology Resident Education Conference, Endocrine Topics (2/year), VUMC*
- 2014-current *General Surgery Resident Mock Orals (annual), VUMC*
- 2019-current *Resident Cadaver Laboratory, Neck Dissections, Instructor, VUMC*

RESEARCH SUPERVISION/TRAINING:

Medical Students

- 2017-2018 *Research Mentor*
Mentee: Caitlyn F. Bell, MS3/4, VUSM
- 2017-2018 *Research Supervisor*
Trainee: Kathleen Gallagher, MS3, VUSM
VUSM Research Immersion MD Curriculum Program
- 2018 *Research Mentor*
Mentee: Jackson Cabo, MS3, VUSM
- 2019-2020 *Research Supervisor*
Trainee: Jordan Baechle, MS3/4, MMC
MMC Research Immersion MD Curriculum Program
- 2021-2022 *Research Supervisor*
Trainee: Sriram Cyr, MS3/4, VUSM
VUSM Research Immersion MD Curriculum Program

Surgical Residents

- 2018-2019 *Research Mentor, Dr. Jenny Ousley, PGY-2, VUMC*
- 2018-2019 *Research Mentor, Dr. Chelsea Isom, PGY-3, VUMC*
- 2018-2020 *Research Mentor, Dr. Joseph Blankush, PGY-2/3, VUMC*
- 2019-2021 *Research Mentor, Dr. David Hanna, PGY-3/4, VUMC*

RESEARCH PROGRAM:

Completed

- 2019-2021 **Paul Lo Goerfo Research Award (AAES)**
"Immunometabolic Glutathione Pathway-Dependent Targeting of Tumor Progression in Thyroid Cancer"
Role: **Baregamian, PI** (50% effort) Amount: \$15,000

- 2021 **P30CA068485 NCI/VICC Multi-Tier Developmental Support Grant (VICC)**
 “Targeting GPX4/GSH Ferroptosis Axis in Thyroid Cancer Microenvironment”
 Role: **Baregamian PI** (50% effort) Amount: \$2,000
- 2021-2022 **P30CA068485 NCI/VICC Multi-Tier Developmental Support Grant (VICC)**
 “Utility of GPX4/GSH Ferroptosis Axis Biomarkers in Thyroid Cancer”
 Role: **Baregamian PI** (50% effort) Amount: \$2,000
- 2022 **Star Bright VICTR Grant Award (VICTR)**
 “Characterization of 3-dimensional multi-cellular thyroid cancer spheroid model of ferroptosis”
 Role: **Baregamian PI** (50% effort) Amount: \$2,000

Ongoing

- 2021-2024 **Vanderbilt SCRIPS Faculty Scholar Award (VUMC/VUSM)**
Burroughs Wellcome Fund Physician Scientist Institutional Award
 “The Role of Oxidant Tumor Immunometabolic Plasticity in Advanced Thyroid Cancer”
 Primary Mentor: W. Kimryn Rathmell, MD, PhD; External Mentor: Steve Leach, MD
 Role: **Baregamian PI** (50% effort) Amount: \$300,000
- 2022-2025 **Vanderbilt Faculty Research Scholar (VFRS) Award (VUMC/VUSM)**
 “Glutathione Metabolism-Dependent Immunometabolic Modulation in Thyroid Tumor Microenvironment”
 Mentor: W. Kimryn Rathmell, MD, PhD
 Role: **Baregamian PI** (50% effort) Amount: \$300,000
- 2022-2023 **Star Bright VICTR Grant Award (VICTR)**
 “Metabolic Alterations During Ferroptosis in Thyroid Cancer”
 Role: **Baregamian PI** (50% effort) Amount: \$2,000

PUBLICATIONS AND PRESENTATIONS:**Articles in Refereed Journals**

- Baregamian N**, Song J, Jeschke MG, Evers BM, Chung DH.
 IGF-1 Protects Intestinal Epithelial Cells from Oxidative Stress-Induced Apoptosis. *Journal of Surgical Research*. 2006 Nov;136(1):31-7. PMID:16999977; PMCID: PMC2613687.
- Baregamian N**, Rychahou PG, Hawkins HK, Evers BM, Chung DH.
 Phosphatidylinositol 3-Kinase Pathway Regulates Hypoxia-Inducible Factor-1 to Protect from Intestinal Injury During Necrotizing Enterocolitis. *Surgery*. 2007 Aug;142(2):295-302. PMID:17689699; PMCID: PMC2613757.
- Kang J, Ishola TA, **Baregamian N**, Mourot JM, Rychahou PG, Evers BM, Chung DH.
 Bombesin Induces Angiogenesis and Neuroblastoma Growth. *Cancer Letters*. 2007 Aug 18;253(2):27381.2007.02.007. PMID:17383815; PMCID: PMC2709810.
- Baregamian N**, Mourot JM, Ballard AR, Evers BM, Chung DH.
 PPAR-Gamma Agonist Protects Against Intestinal Injury During Necrotizing Enterocolitis. *Biochemical Biophysical Research Communications*. 2009 Feb 6;379(2):423-7. 2008.11.155. PMID:19114032; PMCID: PMC2652838.
- Baregamian N**, Song J, Bailey CE, Papaconstantinou J, Evers BM, Chung DH.
 Tumor Necrosis Factor-Alpha and Apoptosis Signal-Regulating Kinase 1 Control Reactive Oxygen Species Release, Mitochondrial Autophagy, and c-Jun N-Terminal Kinase/p38 Phosphorylation During Necrotizing Enterocolitis. *Oxidative Medicine and Cellular Longevity*. 2009 Nov-Dec;2(5):297-306. PMID:20716917; PMCID: PMC2835918.
- Baregamian N**, Song J, Papaconstantinou J, Hawkins HK, Evers BM, Chung DH.
 Intestinal Mitochondrial Apoptotic Signaling is Activated During Oxidative Stress. *Pediatric Surgery International*. 2011 Aug;27(8):871-7. PMID:21400030; PMCID: PMC3668660.
- Baregamian N**, Song J, Chung DH.
 Effects of Oxidative Stress on Intestinal Type I Insulin-Like Growth Factor Receptor Expression. *European Journal of Pediatric Surgery*. 2012 Feb;22(1):97-104. PMID:22434232; PMCID: PMC4313734.
- Bischoff A, Calvo-Garcia MA, **Baregamian N**, Levitt MA, Lim FY, Hall J, Peña A.
 Prenatal Counseling for Cloaca and Cloacal Exstrophy-Challenges Faced by Pediatric Surgeons. *Pediatric Surgery International*. 2012 Aug;28(8):781-8. PMID:22878705; PMCID: PMC3417092.
- Wolfe K, Lewis D, Witte D, Kline-Fath B, Lim FY, Jaekle R, Habli M, Hostiuck J, **Baregamian N**, Keswani S, Crombleholme T.
 Fetal Cervical Teratoma: What is the role of fetal MRI in predicting pulmonary hypoplasia? *Fetal Diagnosis Therapy*. 2013;

Since at VUMC

10. Javid M, Callender G, **Baregamian N**, Carling TC.
Pheochromocytomatosis Treated by Radio-Guided Surgery. *AACE Clinical Case Reports*. 2017 Vol 3, No. 2 Spring 2017
11. Kiernan CM, Weiss VL, Mehrad M, Ely K, **Baregamian N**, Solórzano CC.
New Terminology-Noninvasive Follicular Neoplasm with Papillary-Like Nuclear Features (NIFTP) and its Effect on the Rate of Malignancy at a Single Institution. *Surgery*. 2018 Jan; 163(1):55-59. PMID:29126555.
12. Bell CF, Warrick MM, Gallagher KC, **Baregamian N**.
Neurocognitive Performance Profile Postparathyroidectomy: A Pilot Study of Computerized Assessment. *Surgery*. 2018 Feb;163(2):457-462. PMID:29133114.
13. Gallagher KC, Geromes AB, Stokes J, Reddy IA, Lewis JS Jr, **Baregamian N**.
Rare Undiagnosed Primary Amyloidosis Unmasked During Surgical Treatment of Primary Hyperparathyroidism: A Case Report. *Journal of the Endocrine Society*. 2018 Jan 3;2(2):112-116. PMID:29359203; PMCID:PMC5770298.
14. Cabo J, Gallagher KC, **Baregamian N**.
Challenges and Controversies in the Surgical Management of Uremic Hyperparathyroidism: A Systematic Review. *American Journal of Surgery*. 2018 Oct;216(4):713-722. PMID: 30057108.
15. Thomas G, McWade MA, Paras C, Mannoh EA, Sanders ME, White LM, Broome JT, Phay JE, **Baregamian N**, Solórzano CC, Mahadevan-Jansen A.
Developing a Clinical Prototype to Guide Surgeons for Intraoperative Label-Free Identification of Parathyroid Glands in Real Time. *Thyroid*. 2018 Nov;28(11):1517-1531. PMID:30084742; PMCID: PMC6247985.
16. Cha J, Khurram M, Gellert L, Epstein P, **Baregamian N**, Hendrickson C.
Case of Reversible Diabetes Mellitus in the Setting of Benign Pheochromocytoma. *Journal of Clinical and Translational Endocrinology Case Reports*. 2018 Dec;10:1-3. PMID:30666294; PMCID: PMC6338797.
17. Thomas G, McWade MA, Nguyen JQ, Sanders ME, Broome JT, **Baregamian N**, Solórzano CC, Mahadevan-Jansen A.
Innovative Surgical Guidance for Label-Free Real-Time Parathyroid Identification. *Surgery*. 2019 Jan;165(1):114-123. PMID:30442424; PMCID: PMC6380501.
18. Vilgelm AE, Bergdorf K, Wolf M, Bharti V, Shattuck-Brandt R, Blevins A, Jones C, Phifer C, Lee M, Lowe C, Hongo R, Boyd K, Netterville J, Rohde S, Idrees K, Bauer JA, Westover D, Reinfeld B, **Baregamian N**, Richmond A, Rathmell WK, Lee E, McDonald OG, Weiss VL.
Fine-Needle Aspiration-Based Patient-Derived Cancer Organoids. *iScience*. 2020 Aug 21;23(8):101408. PMID:32771978; PMCID: PMC7415927.
19. Solórzano CC, Thomas G, **Baregamian N**, Mahadevan-Jansen A.
Detecting the Near Infrared Autofluorescence of the Human Parathyroid: Hype or Opportunity? *Annals of Surgery*. 2020 Dec;272(6):973-985. PMID:31804401.
20. Phifer CJ, Bergdorf KN, Bechard ME, Vilgelm A, **Baregamian N**, McDonald OG, Lee E, Weiss VL.
Obtaining Patient-Derived Cancer Organoid Cultures Via Fine-Needle Aspiration. *STAR Protocols*. 2020 Dec 21;2(1):100220. PMID:33377121; PMCID: PMC7758553.
21. Thomas G, Solórzano CC, **Baregamian N**, Mannoh EA, Gautam R, Irlmeier RT, Ye F, Nelson JA, Long SE, Gauger PG, Magner A, Metcalf T, Shirley LA, Phay JE, Mahadevan-Jansen A.
Comparing Intraoperative Parathyroid Identification Based on Surgeon Experience Versus Near Infrared Autofluorescence Detection - A Surgeon-Blinded Multicentric study. *American Journal of Surgery*. 2021 May 13:S0002-9610(21)00280-4. PMID:34024629.
22. Kiernan CM, Thomas G, **Baregamian N**, Solórzano CC.
Initial Clinical Experiences Using the Intraoperative Probe-Based Parathyroid Autofluorescence Identification System-PTeye™ During Thyroid and Parathyroid Procedures. *Journal of Surgical Oncology*. 2021 Sep;124(3):271-281. doi:10.1002/jso.26500. PMID:33866558; PMCID: PMC8319062.
23. Mannoh EA, Thomas G, **Baregamian N**, Rohde S, Solórzano C, Mahadevan-Jansen A.
Assessing Intraoperative Laser Speckle Contrast Imaging of Parathyroid Glands in Relation to Total Thyroidectomy Patient Outcomes. *Thyroid*. 2021 Oct;31(10):1558-1565. PMID:34078120.
24. Baechle JJ, Hanna DN, Sekhar KR, Rathmell JC, Rathmell WK, **Baregamian N**.
Multiplatform Computational Analysis of Mast Cells in Adrenocortical Carcinoma Tumor Microenvironment. *Surgery*. 2021 Jul 11:S0039-6060(21)00540-7. PMID:34261605.
25. Baechle JJ, Hanna DN, Sekhar KR, Rathmell JC, Rathmell WK, **Baregamian N**.
Integrative Computational Immunogenomic Profiling of Cortisol-Secreting Adrenocortical Carcinoma. *J Cell Mol Med*. 2021 Nov;25(21):10061-10072. PMID:34664400.
26. Gallant JN, Chen S, Ortega C, Rohde S, Belcher RH, Netterville JL, **Baregamian N**, Wang H, Liang J, Ye F, Nikiforov YE, Nikiforova MN, Weiss VL.
The Molecular Landscape of Pediatric Thyroid Nodules and The Utility of a Multigene Genomic Classifier in Children. *JAMA Oncology*. 2022 Sep 1;8(9):1323-1327. PMID: 35679040; PMCID: PMC9185516.

27. Lillemoe HA, Hanna DN, **Baregamian N**, Solorzano CC, Terhune KP, Geevarghese SK, Kiernan CM. The Use of a Preoperative Educational Time-Out in Endocrine Surgery to Move the Needle in Operative Autonomy. *Surgery*. 2023 Jan;173(1):84-92. doi: 10.1016/j.surg.2022.07.027. Epub 2022 Oct 7. PMID: 36216620.
28. Thomas G, Kiernan CM, Willmon PA, Haugen E, Luckenbaugh AN, Barocas DA, **Baregamian N**, Mahadevan-Jansen A, Solórzano CC. Label-Free Enhancement of Adrenal Gland Visualization Using Near Infrared Autofluorescence for Surgical Guidance. *World J Surg*. 2023 Feb;47(2):350-360. PMID: 36184672.
29. Sekhar KR, Cyr S, Hanna D, **Baregamian N**. Ferroptosis Inducers in Thyroid Cancer. *World J Surg*. 2023 Feb;47(2):371-381. PMID: 36195678
30. **Baregamian N**, Sekhar KR, Krystofiak ES, Vinogradova M, Thomas G, Mannoh E, Solórzano CC, Kiernan CK, Mahadevan-Jansen A, Abumrad N, Freeman ML, Weiss VL, Rathmell JC, Rathmell WK. Engineering Functional 3-Dimensional Patient-derived Endocrine Organoids for Broad In Vitro Multiplatform Applications. *Surgery*. 2023 Jan;173(1):67-75. Nov 16. PMID: 36400581; PMCID: PMC9939934.
31. Sekhar KR, Hanna D, Cyr S, Baechle J, Kuravi S, Balusu R, Rathmell WK, **Baregamian N**. Glutathione Peroxidase 4 Inhibition Induces Ferroptosis and mTOR Pathway Suppression in Thyroid Cancer. *Sci Rep*. 2022 Nov 12;12(1):19396. PMID: 36371529; PMCID: PMC9653479
32. Belcher R, Thomas G, Willmon P, Gallant J, **Baregamian N**, Lopez M, Solórzano C, Mahadevan-Jansen A. Label-free Parathyroid Identification During Pediatric Thyroid and Parathyroid Surgeries with Near Infrared Autofluorescence Detection. *Laryngoscope* 2023 Mar 3. doi: 10.1002/lary.30633. Epub ahead of print. PMID: 36866696.
33. Sekhar KR, Codreanu S, Williams O, Rathmell JC, Rathmell WK, McLean JA, Sherrod SD, **Baregamian N**. Metabolism of Parathyroid Organoids. *Front Endocrinol (Lausanne)*. 2023 Jul 10;14:1223312. doi: 10.3389/fendo.2023.1223312. PMID: 37492197; PMCID: PMC10364603.
34. Xu GJ, Loberg MS, Gallant JN, Sheng Q, Chen SC, Lehmann BD, Shaddy SM, Tigue ML, Phifer CJ, Wang L, Saab-Chalhoub MW, Dehan LM, Wei Q, Chen R, Bingshan L, Kim CY, Ferguson DC, Netterville JL, Rohde SL, Solorzano CC, Bischoff LA, **Baregamian N**, Shaver AC, Mehrad M, Ely KA, Byrne DW, Stricker TP, Murphy BA, Choe JH, Kagohara LT, Jaffee EM, Huang EC, Ye F, Lee E, Weiss VL. Molecular Assessment of The Tumor Microenvironment Enhances Prediction of Thyroid Cancer Outcome. *Cell Reports*. 2023 (Accepted, *In Press*). Epub 9/13/23
35. Mannoh EA, **Baregamian N**, Thomas G, Solorzano CS, Mahadevan-Jansen A. Comparing laser speckle contrast imaging and indocyanine green angiography for assessment of parathyroid perfusion. *Sci Rep* Sept 2023 (Accepted, *In Press*).

ACS Quality Programs

1. Grisham C, Sanders M, **Baregamian N**, Sweeting RS. Early-Stage Breast Cancer Diagnosed With $^{99m}\text{Tc-MIBI}$ Parathyroid Scintigraphy in a Patient with Hyperparathyroidism. ACS Case Reviews in Surgery. 2020, V3N1, December 14, 2020. <https://www.facs.org/for-medical-professionals/news-publications/journals/case-reviews/issues/v3n1/sweeting-early/>

Book Chapters

1. **Baregamian N**, Chung DH. Neuroblastoma (Chapter 34) Atlas of Pediatric Surgical Techniques, Editors Townsend CM, Evers BM, Elsevier, Sept 2009; 355-359
2. **Baregamian N**, Solórzano CC. The Physiology of Serum Calcitonin and Carcinoembryonic Antigen in Medullary Thyroid Cancer (Chapter 3) Medullary Thyroid Cancer, Editors Evans DB, Wang T, Springer 2016; 25-32
3. **Baregamian N**, Solórzano CC. Cortisol-Secreting Adrenal Tumor (Chapter 71). Clinical Scenarios in Surgery, 2018 Editors Dimick J, Upchurch G, Sonnenday C, Kao L, Walters Kluwer
4. **Baregamian N**. Subtotal Parathyroidectomy (Chapter). 2022 Open Atlas of Surgical Technique for Low Resource Settings, 2022. VUMC, Global Surgery Atlas <https://www.vumc.org/global-surgical-atlas/>
5. Davis R, **Baregamian N**, Gibson CQ. Approach to Parathyroid Disease (Chapter). 2022 Open Atlas of Surgical Technique for Low Resource Settings, 2022. VUMC, Global Surgery Atlas <https://www.vumc.org/global-surgical-atlas/>

PRESENTATIONS AT SCIENTIFIC MEETINGS:

Peer-Reviewed

1. Laparoscopic Pyloromyotomy: Standard of Care for Hypertrophic Pyloric Stenosis. IPEG's 13th Annual Congress for

Endosurgery in Children. Maui, HI. 2004

2. Tumor Necrosis Factor-Alpha and Apoptosis Signal-Regulating Kinase 1 Control Reactive Oxygen Species Release, Mitochondrial Autophagy, and c-Jun N-Terminal Kinase/p38 Phosphorylation During Necrotizing Enterocolitis, American Pediatric Surgical Association (APSA). Orlando, FL. 2006
3. IGF-1 and Oxidative Stress-Induced Apoptosis in NEC. Singleton Surgical Society (UTMB). Galveston, TX. 2006
4. Bombesin Induces Angiogenesis and Neuroblastoma Growth. ACS Annual Surgical Congress, Pediatric Surgery, Chicago, IL. 2006
5. IGF-1 Protects Intestinal Epithelial Cells from Oxidative Stress-Induced Apoptosis. 1st Annual Surgical Congress (AAS). San Diego, CA. 2006
6. Phosphatidylinositol 3-Kinase Pathway Regulates Hypoxia-Inducible Factor-1 to Protect from Intestinal Injury During Necrotizing Enterocolitis. 2nd Annual Surgical Congress (SUS). Phoenix, AZ. 2007
7. Intestinal Mitochondrial Apoptotic Signaling is Activated During Oxidative Stress. ACS Annual Surgical Congress, Pediatric Surgery. New Orleans, LA. 2007
8. Intestinal Mitochondrial Apoptotic Signaling is Activated During Oxidative Stress. 23rd International Pediatric Surgical Research Symposium. Tokyo, Japan. 2010
9. Ex Utero Intrapartum Treatment to Extracorporeal Membrane Oxygenation (EXIT-TO-ECMO) Strategy for Severe Congenital Diaphragmatic Hernia (CDH). American Pediatric Surgery Association (APSA). San Antonio, TX. 2012
10. The Role of Oxidant Tumor Immunometabolic Plasticity in Advanced Thyroid Cancer, VUMC 1st SCRIPS Symposium, First Faculty Scholar Presentation (Virtual). 2020
11. Oxidant Tumor Immunometabolic Plasticity in Thyroid Cancer Progression, VUMC 2nd SCRIPS Symposium, Faculty Scholar Presentation (Virtual). 2021
12. GSH Immunomodulation in Thyroid Cancer Progression, 41st Annual AAES Meeting, Opening Session, LoGoerfo Research Award Presentation (Virtual). 2021
13. Immunoregulatory Mast Cell Signature in Cortisol-Secreting Adrenocortical Carcinoma Tumor Microenvironment. 41st Annual AAES Meeting, Podium Session (Virtual). 2021
14. RSL3 Induces Ferroptosis via GPX4 Inhibition in Papillary Thyroid Cancer. Annual ACS Commission on Cancer (CoC) Research Competition (Virtual). 2021.
15. Use of Probe-Based Parathyroid Autofluorescence Detection and Its Impact on Resident Education. 4th Symposium on Parathyroid Fluorescence. ISITES. 2022
16. Autofluorescence Studies in Human 3D Endocrine Organoids. Symposium on Parathyroid Fluorescence. ISITES. San Francisco, CA. 2022
17. Engineering Functional 3-Dimensional Patient-Derived Endocrine Organoids for Broad Multiplatform Applications. AAES (Virtual). 2022
18. Ferroptosis Inducers in Thyroid Cancer. International Association of Endocrine Surgeons (IAES). Vienna, Austria. 2022
19. Parathyroid Organoid Metabolism: Advancing In Vitro Applications. 5th International Symposium on Parathyroid Fluorescence. ISITES. Geneva, Switzerland. 2023

Invited

1. Parathyroid Imaging Modalities for Complex Parathyroid Surgeries. Multidisciplinary Endocrine Conference, Yale University, New Haven, CT. 2015
2. Surgical Management of Benign and Malignant Thyroid disease. Medicine Grand Rounds, Baptist Health Deaconess, Madisonville, KY. 2016
3. Primary hyperparathyroidism and Innovative Neurocognitive Assessment Tools. Surgical Grand Rounds, VUMC, Nashville, TN, 2018.
4. Multicentric Study with PTEye for Label-Free Parathyroid Identification in Presence of Ambient OR Light. 1st Symposium on Parathyroid Fluorescence, Geneva, Switzerland. 2019
5. Discovery of Parathyroid Autofluorescence and Utility During Thyroid and Parathyroid Surgeries. Annual Wisconsin Surgical Club Conference, VUMC. 2020
6. Evaluating the Relationship Between Intraoperative Laser Speckle Imaging for Parathyroid Vascularity and Total Thyroidectomy Patient Outcomes. 2nd International SPF, Lausanne, Switzerland. 2020
7. Human 3D Endocrine Organoids: A New Window for Advancing Autofluorescence & Therapeutics Research. 3rd Symposium on Parathyroid Fluorescence (Virtual). 2021
8. Surgical Management of Graves' Disease. International Armenian Thyroid Club (Virtual). 2021
9. Women in Surgery. TNACS Annual Meeting, Memphis, TN. 2021
10. Ferroptosis in Papillary Thyroid Cancer. VICC, Clinical Cancer Committee, ACS CoC (Virtual). 2021.
11. Dr. Dorothy Brown Scholarship: Legacy of Dr. Brown. TNACS Annual Meeting, Inaugural Brown Memorial Scholarship Award Ceremony, Nashville, TN. 2022
12. Surgical Management of Graves's Disease and Substernal Goiters. Blanchfield Army Community Hospital, Ft. Campbell, TN (Virtual). 2022
13. Surgical Management of Substernal Goiters. Medicine Grand Rounds. Jennie Stuart Health, Hopkinsville, KY (Virtual). 2022

14. Endocrine Organoids: Advancing Multiplatform Applications. STEMCELL & VUMC Organoid Research Symposium. Nashville, TN. 2023
15. Multidisciplinary Surgical Approaches to Complex Benign and Malignant Thyroid Diseases. 6th IMCA, Armenia. 2023
16. Parathyroidectomy for Secondary and Tertiary Hyperparathyroidism. 6th IMCA, Armenia. 2023
17. Advances in Endocrine Surgery: The role of endocrine autofluorescence. 6th IMCA, Armenia. 2023

Poster Presentations

1. **Baregamian N.** IGF-1 and Oxidative Stress-Induced Apoptosis in NEC. 14th Annual Molecular Biology Symposium (Oral-poster), Galveston, TX. 2006
2. **Baregamian N.** PPAR-Gamma Agonist Protects Against Intestinal Injury During Necrotizing Enterocolitis. Digestive Disease Week (Poster), Washington, DC. 2007
3. **Baregamian N.** Mid-Molecule PTH is a Useful Adjunct in Establishing the Diagnosis of Primary Hyperparathyroidism. 16th International Congress of Endocrinology & the Endocrine Society's 96th Annual Meeting & Expo (Poster), Chicago, IL. 2014
4. **Baregamian N.** Global Metabolomic Profiling of Papillary Thyroid Carcinoma. International Association of Endocrine Surgeons (IAES, Oral-Poster), Basel, Switzerland. 2018
5. **Baregamian N.** Metabolic Antioxidant Plasticity in Thyroid Cancer. Keystone Symposia, Tumor Metabolism. 2020
6. Cyr S, **Baregamian N.** RSL-3 Induces Ferroptosis via Glutathione Peroxidase 4 Inhibition in Papillary Thyroid Carcinoma, VICC Translational Research Symposium, November 2021
7. Cyr S, **Baregamian N.** RSL3-Mediated Ferroptosis in Thyroid Cancer. VICC 23rd Annual Scientific Retreat, May 2022