

CURRICULUM VITAE

Naira Baregamian, MD, MMS, FACS

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EDUCATION

1995-1999 Bachelor of Arts in Biology, Psychology, with Honors
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: Dai H. Chung, B. Mark Evers
UTMB, Galveston, TX

2007-2008 General Surgery Residency (PGY 3)
UTMB, Galveston, TX

2008-2009 NIH T32 Research Fellowship (Year 3)
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-present Permanent ECFMG Certification, 2003, Number 0-626-157-2
2013-present American Board of Surgery (ABS), General Surgery
2014-present Medical Board of Tennessee, 2014, License Number 51740

ACADEMIC APPOINTMENTS

2014-present Assistant Professor of Surgery (Endocrine Surgery)
Division of Surgical Oncology & Endocrine Surgery
Department of Surgery

Vanderbilt University Medical Center (VUMC)
Vanderbilt University School of Medicine (VUSM)
Nashville, TN

HOSPITAL APPOINTMENTS

2014-present Attending Physician
VUMC
Division of Surgical Oncology & Endocrine Surgery
Department of Surgery, VUMC, Nashville, TN

PROFESSIONAL ORGANIZATION MEMBERSHIPS

Intramural

2015-present Vanderbilt Ingram Cancer Center (VICC), VUMC
2022-present Elliot Newman Society, Vanderbilt University (VU)

Extramural (Abbreviated)

2003-present American College of Surgeons (ACS)
2005-present Association for Academic Surgeons (AAS)
2005-present Association of Women Surgeons (AWS)
2013-present American Association of Endocrine Surgeons (AAES)
2016-present Nashville Surgical Society (NSS)
2017-present TN Chapter American College of Surgeons (TNACS)
2018-present American Association for Cancer Research (AACR)
2021-present American Armenian Medical Society (AAMS)
2022-present International Society of Innovative Technologies for Endocrine Surgery (ISITES)

PROFESSIONAL ACTIVITIES

Extramural

Committees

2010-2012 Resident Education Committee, ACS
2010-2014 Resident Education Committee, Society of American Gastrointestinal and
Endoscopic Surgeons (SAGES)
2017-2019 Publications Committee, AAS
2018-2020 Publications Committee, AWS
2018-2020 Member Services Committee, AWS
2018-2019 IT Committee, AAES
2019-2023 Research Committee, AAES
2020-2023 Diversity, Equity & Inclusion (DEI) Committee, Chair, TNACS
2020-2023 Cancer Committee, TNACS
2022 DEI Program Committee, TNACS

Invited Speaker/Moderator

2015 Invited Speaker, Multidisciplinary Endocrine Conference, Yale University
2019 Invited Moderator, Quick-Shot Oral Session, 14th Annual Academic
Surgical Congress (ASC), Houston, TX
2019 Invited Speaker, Annual Wisconsin Surgical Club Conference, VUMC
2020 Moderator, Oral Session at the 2nd International Symposium on
Parathyroid Fluorescence (SPF), Lausanne, Switzerland

2020 Invited Speaker, 2nd International Symposium on Parathyroid Fluorescence, SPF, Lausanne, Switzerland
 2021 Invited Speaker, 3rd International Symposium on Parathyroid Fluorescence, SPF (Virtual)
 2021 Invited Speaker, International Armenian Thyroid Conference (Virtual)
 2022 Invited Speaker, 4th International Symposium on Parathyroid Fluorescence, SPF/International Society of Innovative Technologies for Endocrine Surgery (ISITES). San Francisco, CA
 2022 Invited Speaker, Inaugural Brown Memorial Scholarship Award Ceremony, TNACS
 2022 Invited Speaker, Chair, DEI Session, Annual meeting, TNACS
 2022 Invited Speaker, Blanchfield Army Community Hospital, Ft. Campbell, TN

Leadership Positions

2019-present Founder, Endocrine Neoplasia Laboratory
 2015-present Founder, Endocrine Neoplasia Biorepository
 2020-2022 Middle TN Councilor, TNACS
 2020-2023 DEI Committee Chair & Executive Council Member, TNACS
 2020-present Endocrine Surgery VICC Clinical Advisor for the Von Hippel Landau (VHL) Alliance
 2021 Symposium Coordinator, 3rd International Symposium on Parathyroid Fluorescence, SPF
 2022 Founder, TNACS Dr. Dorothy Lavinia Brown Surgical Scholarship for Underrepresented & Minority Medical Students, TNACS
 2022 Vanderbilt Global Surgery Faculty

Journal Editor

2021-present Associate Editor (Endocrine), Journal of Cellular and Molecular Medicine (JCMM)

NIH/NCI Reviewer

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

Intramural

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
 2017 35th Annual Research Forum, Judge Basic Science, Vanderbilt University Graduate Medical Education (VU GME)
 2018 36th Annual Research Forum, Judge Basic Science, VU GME
 2020-present Diversity & Inclusion Committee, Department of Surgery, VUMC
 2020-present Cancer Liaison Physician (CLP), Commission on Cancer (CoC, ACS), VICC
 2022-present Clinical Cancer Committee (CCC), VICC
 2020-present Endocrine Surgery Faculty Fellowship Advisor, Department of Surgery, VUMC
 2021-present Research Program Member, Translational Research, and Interventional Oncology (TRIO) Research Program, VICC
 2022 Vanderbilt Global Surgery Faculty

Ad-Hoc Peer Review:

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
STAR PROTOCOLS
JOURNAL OF CELLULAR AND MOLECULAR MEDICINE

HONORS AND AWARDS

1999 Academic Excellence Award, *Magna Cum Laude*, CSUN
1999 - 2003 L. Gunther Medical School Academic Scholarship, SGUSOM
2001 Medical Student Honors Award, Surgery Clerkship, SGUSOM
2006 Best Basic Science Project, Singleton Surgical Society, UTMB
2006 Best Basic Science Project, 14th Annual Molecular Biology Symposium, UTMB
2007 Best Basic Science Project, Singleton Surgical Society, UTMB
2009 John P. McGovern Academy of Oslerian Medicine Travel Grant to ACS, UTMB
2009 Best Basic Science Project, Singleton Surgical Society, UTMB
2010 Best Basic Science Project, Singleton Surgical Society, UTMB
2011 Best Basic Science Project, Singleton Surgical Society, UTMB
2018 TNACS Resident Basic Science Competition (2nd place, Student Mentee: Kathleen C. Gallagher), Vanderbilt University School of Medicine (VUSM)
2019 Cancer Research Competition (1st place, Resident Mentee: Chelsea Isom), TNACS
2019-2021 Paul LoGoerfo Research Award, AAES
2019 2019 Excellence in Patient Experience Award, VUMC
2020 2020 Excellence in Patient Experience Award, VUMC
2020 Cancer Research Competition (1st place, Student Mentee: Jordan J. Baechle, Meharry Medical School (MMC)), TNACS
2020-2022 SCRIPS Faculty Scholar, Burroughs Wellcome Fund
Physician Scientist Institutional Award, VUMC
2021 NCI/VICC Multi-Tier Developmental Support Grant (P30CA068485), VUMC
2021 ACS CoC Research Competition (1st place, Mentee: David Hanna, PGY-4), ACS
2021-2022 NCI/VICC Multi-Tier Developmental Support Grant (P30CA068485), VUMC
2021 2021 Excellence in Patient Experience Award, VUMC
2022-2025 Vanderbilt Faculty Scholar Award (VFRS), Vanderbilt University School of Medicine, VUSM
2022 VICC 23rd Annual Scientific Retreat, May 2022, VUMC
Poster Presentation Award Honorable Mention, Mentee: Sriram Cyr (MS-3)

In Press

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

Vanderbilt University School of Medicine Courses

2014-present Medical Student Core Surgery Rotation Lecturer, VUSM, VUMC

2016-present Clinical Mentor, Advanced Clinical Endocrinology Course Faculty for Medical Students, VUSM

Vanderbilt University Graduate School Courses

2019 – 2022 Vanderbilt Program in Molecular Medicine (VPMM), Clinical Mentor
(Graduate Mentee: K Bergdorf, PhD candidate)

2022 – 2024 Vanderbilt Program in Molecular Medicine (VPMM), Clinical Mentor
(Graduate Mentee: H Hartman, PhD candidate)

VUMC Continuing Medical Education

2014-present Lecturer, Endocrinology Fellow Teaching Conference

VUMC CLINICAL TEACHING

2014-present Endocrine Surgery Rotation Teaching (PGY-3 residents, rounds, clinic and OR)

2014-present General Surgery Resident Mock Orals

2014-present General Surgery Resident Teaching Conference Lecturer (2-3 per year)

2014-present Surgical Oncology Resident Education Conference, Endocrine Topics (2-
per year)

2019-present Instructor, Resident Cadaver Laboratory, Neck Dissections

RESEARCH SUPERVISION

2017-2018. Research Mentor, Caitlyn F. Bell, VUSM, Medical Student, VUMS

2017-2018 Research Mentor, Kathleen C. Gallagher, Medical Student, VUMS

2017-2018 Research Mentor, Research Immersion MD Curriculum Program
KC Gallagher, Medical Student, VUMS

2018 Research Mentor, Jackson Cabo, Medical Student, VUSM,

2018-2019 Research Mentor, Jenny Ousley, General Surgery Resident, VUMC

2018-2019 Research Mentor, Chelsea Isom, VUMC, General Surgery Resident, VUMC

2018-2019 Research Mentor, Joseph Blankush, VUMC, General Surgery Resident, VUMC

2020-2021 Research Mentor, Jordan J. Baechle, Medical Student, MMC

2020-2022 Research Mentor, David N. Hanna, VUMC, General Surgery Resident

2021-2022 Research Mentor, Sriram Cyr, VUSM, Medical Student

2021-2022 Research Mentor, VUSM Research Immersion MD Curriculum Program, Mentee:
Sriram Cyr, Medical Student

RESEARCH GRANTS

2019-2021 **Paul Lo Goerfo Research Award**

American Association of Endocrine Surgeons

“Immunometabolic Glutathione Pathway-Dependent Targeting of Tumor
Progression in Thyroid Cancer”

Role: Principal Investigator

2020-2022 **Vanderbilt SCRIPS Faculty Scholar Award**, Burroughs Wellcome Fund Physician Scientist
Institutional Award

“The Role of Oxidant Tumor Immunometabolic Plasticity in Advanced Thyroid Cancer”

Primary Mentor: W. Kimryn Rathmell

External Mentor: Steve Leach, MD

Role: Principal Investigator

2021 **P30CA068485 NCI/VICC Multi-Tier Developmental Support Grant**

“Targeting GPX4/GSH Ferroptosis Axis in Thyroid Cancer Microenvironment”

Role: Principal Investigator

- 2021 **P30CA068485 NCI/VICC Multi-Tier Developmental Support Grant**
“Utility of GPX4/GSH Ferroptosis Axis Biomarkers in Thyroid Cancer”
Role: Principal Investigator
- 2022 **Vanderbilt Faculty Research Scholar (VFRS) Award**
“Glutathione Metabolism-Dependent Immunometabolic Modulation in Thyroid Tumor
Microenvironment”
Role: Principal Investigator
Mentor: W. Kimryn Rathmell, MD, PhD

PUBLICATIONS & PRESENTATIONS

Peer-Reviewed Articles

1. **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. doi:10.1016/j.jss.2006.04.028. PMID:16999977; PMCID: PMC2613687.
2. **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. doi:10.1016/j.surg.2007.04.018. PMID:17689699; PMCID: PMC2613757.
3. 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):273-81. doi:10.1016/j.canlet.2007.02.007. PMID:17383815; PMCID: PMC2709810.
4. **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. doi:10.1016/j.bbrc.2008.11.155. PMID:19114032; PMCID: PMC2652838.
5. **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. doi:10.4161/oxim.2.5.9541. PMID:20716917; PMCID: PMC2835918.
6. **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. doi:10.1007/s00383-011-2880-x. PMID:21400030; PMCID: PMC3668660.
7. **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. doi:10.1055/s-0032-1306261. PMID:22434232; PMCID: PMC4313734.
8. 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. doi:10.1007/s00383-012-3133-3. PMID:22878705; PMCID: PMC3417092.

9. 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; 33(4):252-6. doi:10.1159/000342191. PMID:23429169.
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. doi:10.1016/j.surg.2017.04.041. 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. doi:10.1016/j.surg.2017.09.001. 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. doi:10.1210/js.2017-00445. 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. doi:10.1016/j.amjsurg.2018.07.030. 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. doi:10.1089/thy.2017.0716. 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. doi:10.1016/j.jecr.2018.07.003. 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. doi:10.1016/j.surg.2018.04.079. 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. doi:10.1016/j.isci.2020.101408. PMID:32771978; PMCID: PMC7415927.
19. Grisham C, Sanders M, **Baregamian N**, Sweeting RS.
Early-Stage Breast Cancer Diagnosed With 99m-Tc-MIBI Parathyroid Scintigraphy In a Patient With Hyperparathyroidism. *ACS Case Reviews in Surgery*. 2020, V3N1, December 14, 2020.
20. 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. doi:10.1097/SLA. PMID:31804401.

21. 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. doi:10.1016/j.xpro.2020.100220. PMID:33377121; PMCID: PMC7758553.
22. 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 MultiScentric study. *American Journal of Surgery*. 2021 May 13:S0002-9610(21)00280-4. PMID:34024629.
23. 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.
24. 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. doi:10.1089/thy.2021.0093. Epub 2021 Aug 18. PMID:34078120.
25. 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. doi:10.1016/j.surg.2021.04.045. PMID:34261605.
26. 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. doi:10.1111/jcmm.16936. PMID:34664400.
27. 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 Jun 9 e221655
28. 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* 2022 Oct 7:S0039-6060(22)00619-5. doi: 10.1016/j.surg.2022.07.027. Epub ahead of print. PMID: 36216620.
29. 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 Surgery* 2022 Oct 2. doi: 10.1007/s00268-022-06755-y. Epub ahead of print. PMID: 36184672.
30. Sekhar KR, Cyr S, Hanna D, **Baregamian N**. Ferroptosis Inducers in Thyroid Cancer. *World J Surgery* 2022 Oct 4. doi: 10.1007/s00268-022-06738-z. Epub ahead of print. PMID: 36195678.
31. **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* 2022 Nov 15:S0039-6060(22)00814-5. doi:

32. 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. doi: 10.1038/s41598-022-23906-2. PMID: 36371529; PMCID: PMC9653479.
33. Mannoh E, **Baregamian N**, Thomas G, Solorzano CS, Mahadevan-Jansen A. Comparing Laser Speckle Contrast Imaging and Indocyanine Green Angiography for Assessment of Parathyroid Perfusion. *Surgery* 2022 (*Submitted, In Review*)
34. Bergdorf K, Xu G, Loberg M, Phifer C, Sheng Q, Ye F, Rhode S, Netterville J, **Baregamian N**, Shaddy S, Huang E, Murphy B, Goettel G, Lee E, Weiss VL. Wnt/ β -Catenin Signaling is a Therapeutic Target in Anaplastic Thyroid Carcinoma. *Nature Cancer* 2022 (*Submitted, In Review*)
35. Belcher R, Thomas G, Willmon PA, Gallant JA, **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* 2022 (*Submitted, In Review*)

Oral Presentations (abbreviated)

1. **Baregamian N**. Laparoscopic Pyloromyotomy: Standard of Care for Hypertrophic Pyloric Stenosis. IPEG's 13th Annual Congress for Endosurgery in Children (Oral-Poster), Maui, HI. 2004
2. **Baregamian N**. 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) (Oral), Orlando, FL. 2006
3. **Baregamian N**. IGF-1 and Oxidative Stress-Induced Apoptosis in NEC. Singleton Surgical Society (UTMB, Oral), Galveston, TX. 2006
4. **Baregamian N**. Bombesin Induces Angiogenesis and Neuroblastoma Growth ACS Annual Surgical Congress, Pediatric Surgery (Oral), Chicago, IL. 2006
5. **Baregamian N**. IGF-1 in Intestinal Epithelial Cells from Oxidative Stress-Induced Apoptosis
6. **Baregamian N**. IGF-1 Protects Intestinal Epithelial Cells from Oxidative Stress-Induced Apoptosis. 1st Annual Surgical Congress (AAS, Oral), San Diego, CA. 2006
7. **Baregamian N**. Phosphatidylinositol 3-Kinase Pathway Regulates Hypoxia-Inducible Factor-1 to Protect from Intestinal Injury During Necrotizing Enterocolitis. 2nd Annual Surgical Congress (Society of University Surgeons, Oral), Phoenix, AZ. 2007
8. **Baregamian N**. Intestinal Mitochondrial Apoptotic Signaling is Activated During Oxidative Stress. ACS Annual Surgical Congress, Pediatric Surgery (Oral), New Orleans, LA. 2007
9. **Baregamian N**. Intestinal Mitochondrial Apoptotic Signaling is Activated During Oxidative Stress. 23rd International Pediatric Surgical Research Symposium (Oral), Tokyo, Japan. 2010
10. **Baregamian N**. Ex Utero Intrapartum Treatment to Extracorporeal Membrane Oxygenation (EXIT-TO-ECMO) Strategy for Severe Congenital Diaphragmatic Hernia (CDH). American Pediatric Surgery Association (APSA, Oral), San Antonio, TX. 2012
11. **Baregamian N**. Multicentric Study with PTEye for Label-Free Parathyroid Identification in Presence of Ambient OR Light. 1st International Symposium on Parathyroid Fluorescence, Geneva, Switzerland. 2019
12. **Baregamian N**. Evaluating the Relationship Between Intraoperative Laser Speckle Imaging for Parathyroid Vascularity and Total Thyroidectomy Patient Outcomes. 2nd International Symposium on Parathyroid Fluorescence, Lausanne, Switzerland. 2020
13. **Baregamian N**. The Role of Oxidant Tumor Immunometabolic Plasticity in Advanced Thyroid Cancer, VUMC SCRIPS Symposium, First Faculty Scholar Presentation. 2020
14. **Baregamian N**. Human 3D Endocrine Organoids: A New Window for Advancing Autofluorescence & Therapeutics Research. 3rd International Symposium on Parathyroid Fluorescence, Virtual. 2021
15. **Baregamian N**. Oxidant Tumor Immunometabolic Plasticity in Thyroid Cancer Progression, VUMC SCRIPS Symposium, Faculty Scholar Presentation. 2021

16. **Baregamian N.** GSH Immunomodulation in Thyroid Cancer Progression, 41st Annual AAES Meeting, Opening Session, LoGoerfo Research Award Presentation. 2021
17. **Baregamian N.** Immunoregulatory Mast Cell Signature in Cortisol-Secreting Adrenocortical Carcinoma Tumor Microenvironment. 41st Annual AAES Meeting, Podium Session. 2021
18. **Baregamian N.** Surgical Management of Graves Disease. International Armenian Thyroid Club. 2021
19. **Baregamian N.** RSL3 Induces Ferroptosis via GPX4 Inhibition in Papillary Thyroid Cancer. ACS CoC Research Competition. on Cancer. 2021.
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22. **Baregamian N.** Autofluorescence Studies In Human 3D Endocrine Organoids. 4th International Symposium on Parathyroid Fluorescence. ISITES. 2022
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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.** RSL3 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

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1. **Baregamian N,** Chung DH.
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