

Curriculum Vitae
Eben Lloyd Rosenthal, MD
(05/19/2023)

Office Address: Barry and Amy Baker Chair in Head and Neck Research
Professor and Chair, Department of Otolaryngology–Head
and Neck Surgery
Professor of Pathology and Radiology (by courtesy)
Vanderbilt University Medical Center
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Nashville TN 37232-8605

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Education:

BA: Haverford College Haverford, Pennsylvania 1984 – 1988
MD: University of Michigan Medical School Ann Arbor, Michigan 1990 - 1994

Postdoctoral Training:

Internship - General Surgery Jul 1994 – Jun 1995
University of Michigan Medical Center
Ann Arbor, Michigan

Residency - Otolaryngology Jul 1995 – Jun 2000
University of Michigan Medical Center
Ann Arbor, Michigan

Fellowship - Facial Plastic & Reconstructive Surgery Jul 2000 – Jun 2001
Oregon Health Sciences University
Portland, Oregon

Licensure and Certification:

State of Michigan	129011	1997
State of Oregon	22470	2000
State of Alabama	24189	2001
State of California	136361	2015
State of Tennessee	64093	2021
American Board of Otolaryngology	16697	May 7, 2001

Academic Appointments:

Faculty	Chemical and Physical Biology Program Vanderbilt University Medical Center	Apr 2023 – present
Professor (secondary appointment)	Department of Radiology Vanderbilt University Medical Center	Mar 2023 – present
Barry and Amy Baker Chair in Laryngeal, Head and Neck Research	Department of Otolaryngology–Head and Neck Surgery Vanderbilt University Medical Center	Jan 2023 – present
Professor (secondary appointment)	Department of Pathology, Microbiology and Immunology Vanderbilt University Medical Center	Apr 2022 – present
Faculty	Program in Cancer Biology Vanderbilt University Medical Center	Jan 2022 – present
Chair	Department of Otolaryngology–Head and Neck Surgery Vanderbilt University Medical Center	Oct 2021 – present
Carol and John S. Odess Chair in Facial Plastic and Reconstructive Surgery	Department of Otolaryngology–Head and Neck Surgery Vanderbilt University Medical Center	Oct 2021 – Jan 2023
Professor	Department of Otolaryngology–Head and Neck Surgery Vanderbilt University Medical Center	Oct 2021 – present
Professor of Radiology (courtesy)	Department of Radiology Stanford University School of Medicine	Jul 2016 – Sep 2021
Ann and John Doerr Medical Director	Stanford Cancer Center Stanford Health Care	Jul 2015 – Sep 2021
Associate Director of Clinical Care	Stanford Cancer Institute Stanford University School of Medicine	Jul 2015 – Sep 2021
Professor of Otolaryngology	Department of Otolaryngology-HNS Stanford University School of Medicine	Jul 2015 – Sep 2021
Division Director John S. Odess Professor of Surgery	Division of Otolaryngology-HNS University of Alabama at Birmingham	Jul 2012 – Jun 2015
Residency Program Director	Division of Otolaryngology-HNS University of Alabama at Birmingham	Jan 2011 – Jun 2013
Julius N. Hicks Professor of Surgery	Division of Otolaryngology-HNS University of Alabama at Birmingham	2011 – 2012
Julius N. Hicks Associate Professor of Surgery	Department of Radiology University of Alabama at Birmingham	2006 – 2010

Academic Appointments:

Assistant Professor of Surgery	Division of Otolaryngology-HNS University of Alabama at Birmingham	2001 – 2005
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Hospital Appointments:

Vanderbilt University Medical Center		2021 – present
VA Nashville (Without Compensation)		2021 – 2023
Stanford Medicine		2015 – 2021
UAB Hospital		2001 – 2015

Executive Leadership:

Chair	Department of Otolaryngology–Head and Neck Surgery Vanderbilt University Medical Center	Oct 2021 – present
	Responsible for quality and multidisciplinary care of the Department of Otolaryngology–Head and Neck Surgery; allocate staff, space and equipment to support providers; develop a network strategy for Otolaryngology for Vanderbilt’s catchment area.	
Ann and John Doerr Medical Director	Stanford Cancer Center Stanford Health Care	Jul 2015 – Sep 2021
	Responsible for quality and multidisciplinary care across the Stanford Cancer Center; allocate staff, space and equipment to support physicians; manage infusion services across multiple facilities; develop a network strategy for cancer for the Bay Area.	
Division Director	Division of Otolaryngology-HNS University of Alabama at Birmingham	Jul 2012 – Jun 2015
	Managed 6-million-dollar budget, contributed 15% annually to reserves. Responsible for transition of Division of Otolaryngology to Departmental status.	

Professional Organizations:

American Academy of Otolaryngology–Head and Neck Surgery		
Member		1994 – present
First Place Award in Basic Science Category		1998
Honor Award		2006
Honor Award		2010
Chair, Program Advisory Committee		2011 – 2016
Distinguished Service Award		2018
American Board of Otolaryngology – Head and Neck Surgery		
Board-certified (16697)		May 7, 2001

Professional Organizations:

Examiner, Board Examination	2013 – present
American College of Surgeons Fellow	2003 – present
American Head and Neck Society Member	2001 – present
Prevention and Early Detection Committee	2010 – 2013
Chair, Head and Neck Reconstructive Committee	2012 – 2015
Poster Chair, 2012 AHNS International Meeting	2010 – 2012
Proffered Paper Chair, 2016 AHNS International Meeting	2014 – 2016
Program Chair, 2020 AHNS International Meeting	2018 – 2020
Conference Chair, 2023 AHNS International Meeting	2021 – 2023
CORLAS (Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum) Member	2016 – present
Federal Drug Administration (FDA) Member, Drug Safety and Risk Management Advisory Committee	Jan 2022 – present
Member, Medical Imaging Drugs Advisory Committee, Division of Imaging and Radiation Medicine	Jan 2022 – present
Society of University Surgeons Member	2010 – present
Triological Society Member	2006 – present
Resident Travel Grant Award	2000
Honorable Mention Triological Thesis	2006
World Molecular Imaging Society Member	2010 – present

Professional Activities:**Professional Activities: Leadership Roles on Councils and Committees:**

Prevention and Early Detection Committee, American Head and Neck Society.	2010 – 2013
Member, National Institutes of Health, Developmental Therapeutics Study Section, Center for Scientific Review.	2010 – present
Chair, Program Advisory Committee, American Academy of Otolaryngology–Head and Neck Surgery.	2011 – 2016
Poster Chair, American Head and Neck Society International Meeting.	2012
Chair, Head and Neck Reconstructive Committee, American Head and Neck Society.	2012 – 2015
Examiner, American Board of Otolaryngology – Head and Neck Surgery.	2013 – present

Professional Activities: Leadership Roles on Councils and Committees:

Proffered Paper Chair, American Head and Neck Society International Meeting.	2016
Program Chair, American Head and Neck Society International Meeting.	2020
NoAAC Investigator, North American Airway Collaborative.	2022 – present
Course Director, Vanderbilt Department of Otolaryngology–Head and Neck Surgery’s 43rd Sisson-Ossoff Symposium, Vail, CO.	Annually in February, 2022 – present

Professional Activities: Editorial Board Memberships:

Associate Editor, <i>Head & Neck</i> .	2007 – Present
Editorial Board Member, <i>The Laryngoscope</i> .	2007 – Present
Editorial Board Member, <i>World Journal of Clinical Oncology</i> .	2015 – Present
Editorial Board Member, <i>Laryngoscope Investigative Otolaryngology</i> .	2015 – Present
Reviewer, <i>American Journal of Surgery</i> , <i>Archives of Otolaryngology</i> , <i>BMC Cancer</i> , <i>Cancer Research</i> , <i>Cancer</i> , <i>Clinical Cancer Research</i> , <i>Experimental Cell Research</i> , <i>Head & Neck</i> , <i>International Journal of Cancer</i> , <i>Laryngoscope</i> , <i>Molecular Cancer Research</i> , <i>Molecular Carcinogenesis</i> , <i>Molecular Imaging and Biology</i> , <i>Nature Biomedical Engineering</i> , <i>Nature Communications</i> , <i>New England Journal of Medicine</i> , and <i>Otolaryngology–Head and Neck Surgery</i> .	

Professional Activities: Grant Application Review Committees:

NIH/CSR Developmental Therapeutics (DT) Study Section Member	2010 – 2016
American Cancer Society (ACS) Grant Review Panel	2019
NIH/NIBIB Special emphasis panel (ZRG1 SBIB-L550)	2019

Professional Activities: University Activities:

Associate Program Director, UAB Division of Otolaryngology-Head and Neck Surgery, University of Alabama at Birmingham (UAB), Birmingham, AL.	2003 – 2012
UAB Divisional Institutional Review Board Reviewer, University of Alabama at Birmingham (UAB), Birmingham, AL.	2003 – 2015
Chair, Research Committee, UAB Division of Otolaryngology-Head and Neck Surgery, University of Alabama at Birmingham (UAB), Birmingham, AL.	2004 – 2015
Reviewer for UAB Comprehensive Cancer Center Internal Grant Submissions, University of Alabama at Birmingham (UAB), Birmingham, AL.	2004 – 2015
Chair, UAB Robotic Surgery Committee, University of Alabama at Birmingham (UAB), Birmingham, AL.	2007 – 2010

Professional Activities: University Activities:

Director, Surgical Anatomy UAB School of Medicine, University of Alabama at Birmingham (UAB), Birmingham, AL.	2007 – 2015
UAB Health Services Perioperative Services Management Group, University of Alabama at Birmingham (UAB), Birmingham, AL.	2008 – 2015
Director, UAB Department of Surgery Institutional Review Board Reviewer, University of Alabama at Birmingham (UAB), Birmingham, AL.	2009 – 2015
UAB School of Medicine Clinical Advisory Group, University of Alabama at Birmingham (UAB), Birmingham, AL.	2010 – 2015
Chair, UAB Operating Room Management Committee, University of Alabama at Birmingham (UAB), Birmingham, AL.	2011 – 2015
Director, UAB Department of Surgery Research Office, University of Alabama at Birmingham (UAB), Birmingham, AL.	2011 – 2015
SOM/SHC Council of Clinical Chairs, Stanford University, Stanford, CA.	2015 – 2021
SOM Executive Committee, Stanford University, Stanford, CA.	2015 – 2021
Chair, Medical Directors Cabinet Cancer Center, Stanford University, Stanford, CA.	2015 – 2021
SOM, Stanford Cancer Institute, Leadership Committee, Stanford University, Stanford, CA.	2015 – 2021
Co-Chair, Cancer Center Faculty Meeting Stanford University, Stanford, CA.	2015 – 2021
SHC Access Committee, Stanford University, Stanford, CA.	2018 – 2021
SOM Integrated Space Committee, Stanford University, Stanford, CA.	2018 – 2021
Medical Center Medical Board, Vanderbilt University School of Medicine, Nashville, TN.	2021 – present
Executive Committee of the Executive Faculty, Vanderbilt Medical Group, Nashville, TN.	2021 – present
Clinical Enterprise Group, Vanderbilt University School of Medicine, Nashville, TN.	2021 – present
Member, Advisory Board, Vanderbilt-Ingram Cancer Center, Vanderbilt University Medical Center, Nashville, TN.	2021 – present
Member, VICC Executive Committee, Vanderbilt-Ingram Cancer Center, Vanderbilt University Medical Center, Nashville, TN.	2021 – present
Affiliated Member, Vanderbilt University Institute of Imaging Science, Vanderbilt University Medical Center, Nashville, TN.	2021 – present
Member, Chair of Ophthalmology Search Committee, Vanderbilt University Medical Center, Nashville, TN.	2022 – 2023
Member, Panel, The Leader’s Role, Academic Leadership Program, Vanderbilt University School of Medicine, Nashville, TN.	6 Oct 2022

Professional Activities: University Activities:

Faculty, Program in Cancer Biology, Vanderbilt University Medical Center, Nashville, TN.	Jan 2022 – present
Vice Chair of Education, Department of Otolaryngology–Head and Neck Surgery, Vanderbilt University Medical Center, Nashville, TN.	Feb 2023 – present
Faculty, Chemical and Physical Biology Program, Vanderbilt University Medical Center, Nashville, TN.	Apr 2023 – present

Professional Activities: Professional Awards & Honors:

The Merle Lawrence Research Award for Best Basic Science Research Paper	1998
First Place Award in Basic Science Category, AAO-HNS	1998
The John L. Kemink Research Award for Best Clinical Research Paper	1999
Best Research Paper, Walter P. Work Society	1999
Resident Travel Grant Award, Triological Society	2000
John W. Kirklin Research and Education Foundation Fellowship Award	2002
Outstanding Faculty Member Teaching Award – Otolaryngology	2005
Honorable Mention Triological Thesis – Triological Society	2006
Honor Award – American Academy of Otolaryngology–Head and Neck Surgery	2006
Best Doctors in America (annually)	2007 – present
Harry and Elsa Jiler Travel Award	2007
Argus Teaching Award – UAB School of Medicine	2008
Outstanding Faculty Member Teaching Award – Otolaryngology	2008
Honor Award – American Academy of Otolaryngology–Head and Neck Surgery	2010
Distinguished Service Award – American Academy of Otolaryngology–Head and Neck Surgery	2018
Stanford University Leadership Academy	2019
Best in Physics (Multi-disciplinary), AAPM 2022: 6 th Annual Meeting & Exhibition: Celebrating Medical Physics: Transforming Human Health, Washington, DC, July 10–14, 2022. <i>For</i> A Natarajan, S Khan, D Anders, N Malik, H Nguyen, O Oderinde, F Chin, E Rosenthal , G Pratz. “Feasibility of Biology-Guided Radiation Therapy Using a Long-Lived Antibody PET Tracer.” Abstract presented by Guillem Patx.	2022
Honorary Speaker, Kirby Bland Festschrift, University of Alabama at Birmingham, Birmingham, AL.	20 Feb 2023

Teaching Activities:**Teaching Activities: Graduate Medical Education:**

1. Faculty, Fellowship in Head & Neck, Cranial Base and Microvascular Reconstructive Surgery, Department of Otolaryngology – Head and Neck Surgery, Vanderbilt University Medical Center, Nashville, TN; program accredited by the American Head & Neck Society. Oct 2021 – present

Teaching Activities: Continuing Medical Education (since 2010):

1. Visiting Professor, “Directions in Therapy for Head and Neck Cancer at UAB.” Vanderbilt University Medical Center, Nashville, TN. 2010
2. Visiting Professor, “Optical Imaging to Detect Cancer for Surgical Resections.” University of Mississippi Medical Center, Jackson, MS. 2010
3. Visiting Professor, “Head and Neck Reconstruction with Free Flaps.” University of Mississippi Medical Center, Jackson, MS. 2010
4. Visiting Professor, “Adventures in Head and Neck Reconstruction.” LSU Health Sciences Center, New Orleans, LA. 2010
5. Visiting Professor, “Head and Neck Cancer Update.” Fort Walton Beach Medical Center, FL. 2010
6. Visiting Professor, “Use of the Osteocutaneous Radial Forearm Flap in Head and Neck Reconstructive Surgery.” Saint Louis University School of Medicine Department of Otolaryngology – Head and Neck Surgery, St. Louis, MO. 2012
7. Visiting Professor, “Optical Imaging to Guide Surgical Resections: Preclinical Studies.” Saint Louis University School of Medicine Department of Otolaryngology – Head and Neck Surgery, St. Louis, MO. 2012
8. Invited Keynote Speaker, “Molecular Imaging and Fluorescence in the Treatment of Cancer.” Summit for Perfusion Imaging and Excellence in Surgery, November 16-18, 2012. Las Vegas, NV. Nov 2012
9. Invited Speaker, “Contemporary Management of Oropharynx?” COSM, April 6-10, 2013. Orlando, FL. Apr 2013
10. Invited Speaker, “Oropharynx Reconstruction - Why bother?” Annual Meeting American Academy of Otolaryngology – HNS COSM, April 6-10, 2013. Orlando, FL. Apr 2013
11. Moderator, “Laryngology/Broncho-Esophagology, Facial Plastic & Reconstructive Surgery; Head & Neck Surgery.” 2013 AAO-HNSF Annual Meeting and Oto Expo, Vancouver, BC, Canada. 30 Sep 2013
12. Miniseminar, “Surgical Management of the Patient with Facial Paralysis.” 2013 AAO-HNSF Annual Meeting and Oto Expo, Vancouver, BC, Canada. 30 Sep 2013

Teaching Activities: Continuing Medical Education (since 2010):

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| 13. Miniseminar, “Grant Writing Pearls and Pitfalls: Maximizing Your Funding.” 2013 AAO-HNSF Annual Meeting and Oto Expo, Vancouver, BC, Canada. | 1 Oct 2013 |
| 14. Invited Speaker, “Microvascular Reconstruction Update.” Multidisciplinary Head & Neck Cancer Symposium, Scottsdale, AZ. | 21 Feb 2014 |
| 15. Visiting Professor, “Fluorescent Immunoguided Neoplasm Detection (FIND).” University of Pittsburgh Cancer Institute Basic Research Seminar, Pittsburgh, PA. | 11 Mar 2014 |
| 16. Grand Rounds Speaker, “Methods to Improve Outcomes in Reconstruction.” University of Pittsburgh, Otolaryngology Grand Rounds Presentation, Pittsburgh, PA. | Mar 2014 |
| 17. Panelist and Speaker, “Imaging as a Prognostic Tool.” IFHNOS 5th World Congress and AHNS Annual Meeting, New York, NY. | 27 Jul 2014 |
| 18. Miniseminar, “The Pearls and Pitfalls of Grant Writing: Maximizing Your Funding.” 2014 AAO-HNSF Annual Meeting and Oto Expo, Orlando, FL. | 21 Sep 2014 |
| 19. Miniseminar, “Surgical Management of the Patient with Facial Paralysis.” 2014 AAO-HNSF Annual Meeting and Oto Expo, Orlando, FL. | 22 Sep 2014 |
| 20. Miniseminar, “Surgery with Optical Imaging: Fluorescence Guided and Molecular Navigation.” 2014 AAO-HNSF Annual Meeting and Oto Expo, Orlando, FL. | 23 Sep 2014 |
| 21. Panelist and Speaker, “Antibody Based Imaging.” ACS Clinical Congress, San Francisco, CA. | 27 Oct 2014 |
| 22. Panelist and Speaker, “Tumor-specificity of Cetuximab-IRDye800 for surgical navigation in squamous cell cancer.” AACR-SNMMI State-of-the-Art Molecular Imaging in Cancer Biology and Therapy, San Diego, CA. | 12 Feb 2015 |
| 23. Invited Speaker, “Optical imaging for surgical navigation.” Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, Weston, FL. | 6 Mar 2015 |
| 24. Panelist and Speaker, “Oropharynx.” Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, Weston, FL. | 6 Mar 2015 |
| 25. Panelist and Speaker, “Oral cavity and skin cases.” Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, Weston, FL. | 6 Mar 2015 |
| 26. Invited Speaker, “Laryngopharyngectomy, reconstruction, and postop care.” Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, Weston, FL. | 7 Mar 2014 |
| 27. Panelist and Speaker, “Thyroid/Salivary gland cancer cases.” Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, Weston, FL. | 7 Mar 2015 |

Teaching Activities: Continuing Medical Education (since 2010):

28. Invited Speaker, "Safety and Tumor-specificity of Cetuximab-IRDye800 for Surgical Navigation in Head and Neck Cancer." 26 Aug 2015
CORLAS Annual Meeting, San Francisco, CA.
29. Moderator, "OSN – IND Successes and Pitfalls." World Molecular Imaging Conference, Honolulu, HI. 2 Sep 2015
30. Moderator, "OSN Panel: Devices for Surgical Imaging – What is Needed?" World Molecular Imaging Conference, Honolulu, HI. 2 Sep 2015
31. Panelist, "Surgical Management of the Patient with Facial Paralysis." 28 Sep 2015
2015 AAO-HNSF Annual Meeting and Oto Expo, Dallas, TX.
32. Grand Rounds Speaker, "Optical Imaging in the Operating Room: Present and Future." Stanford University Department of Radiology Grand Rounds Presentation, Stanford, CA. Oct 2015
33. Grand Rounds Speaker, "Fluorescence Guided Oncologic Surgery." 20 Jan 2016
UCSF Department of Otolaryngology Grand Rounds Presentation, San Francisco, CA.
34. Invited Speaker, "Optical Imaging to Detection During Surgery: Early Phase Clinical Trial Data." SPIE Translational Biophotonics 2016, Houston, TX. 16 May 2016
35. Invited Speaker, "Optical Imaging for Surgical Navigation." 2016 Midwest Preclinical Imaging Consortium, Madison, WI. 17 May 2016
36. Invited Speaker, "Next Generation Imaging." Fluorescence-Theranostics Symposium, Groningen, Netherlands. 15 Jun 2016
37. Invited Speaker, "Surgical Management Using Fluorescence-Guided Surgery." ASIGS Surgical Navigation Update 2016, Stanford, CA. 26 Jun 2016
38. Invited Speaker, "Early Phase Clinical Trials using Contrast Agents to Visualize Cancer During Surgery." The William M. Keane, MD Lecture in Otolaryngology, Head and Neck Surgery, Philadelphia, PA. 29 Jun 2016
39. Invited Speaker, "Management of Head & Neck Cancer." Good Samaritan Regional Medical Center CME Presentation, Corvallis, OR. 24 Aug 2016
40. Invited Speaker, "Lack of Consensus Between Patients and Doctors: Should Our Health System Allow Rapid Electronic Release of Cancer Results to Patients?" 2016 Annual Corlas Meeting Collegium 2016, Bordeaux, France. 20 Aug 2016
41. Invited Speaker, "New Developments in Optical Imaging for Head and Neck Cancer." Nineteenth Annual West Hawaii Cancer Symposium, Hualalai, HI. 10 Sep 2016
42. Invited Speaker, "Intraoperative Imaging" Intraoperative Imaging Technologies for Cancer Detection and Treatment, MSKCC October, New York, NY. Oct 2016

Teaching Activities: Continuing Medical Education (since 2010):

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| 43. Invited Speaker, “Surgical Imaging in Cancer.” Cancer Targets & Nanomedicine Seminar Series, Dallas, TX. | 20 Nov 2016 |
| 44. Invited Speaker, “Imaging in Head & Neck Cancer.” Illuminating Developments in Head and Neck Imaging, Boston, MA. | 9 Dec 2016 |
| 45. Grand Rounds Speaker, “Recon Case Series.” Stanford University Department of Otolaryngology – Head and Neck Surgery Grand Rounds Presentation, Stanford, CA. | 19 Jan 2017 |
| 46. Moderator and Speaker, “Perfusion Imaging: Applications.” Optical and Molecular Imaging Strategies in Surgery Meeting Las Vegas, NV. | 10 Feb 2017 |
| 47. Invited Speaker, “Imaging Primary Tumors During Resection.” Optical and Molecular Imaging Strategies in Surgery Meeting, Las Vegas, NV. | 10 Feb 2017 |
| 48. Invited Speaker, “Osteocutaneous Flap Reconstruction in the Head and Neck.” Annual Meeting of the Israeli Society of Otolaryngology Head and Neck Surgery, Eilat, Israel. | 1 Mar 2017 |
| 49. Invited Keynote Speaker, “Management of Complex Wounds in the Head and Neck.” Annual Meeting of the Israeli Society of Otolaryngology Head and Neck Surgery, Eilat, Israel. | 2 Mar 2017 |
| 50. Invited Speaker, “Management of Complex Wounds in the Head and Neck.” Annual Meeting of the Israeli Society of Otolaryngology Head and Neck Surgery, Eilat, Israel. | 2 Mar 2017 |
| 51. Invited Keynote Speaker, “Management of the Larynx in the Area of Chemoradiation.” Annual Meeting Israeli Society of Otolaryngology Head and Neck Surgery, Eilat, Israel. | 2 Mar 2017 |
| 52. Invited Keynote Speaker, “Head and Neck Cancer Patient Follow-up.” Annual Meeting of the Israeli Society of Otolaryngology Head and Neck Surgery, Eilat, Israel. | 3 Mar 2017 |
| 53. Invited Speaker, “Follow-up of Head and Neck Cancer Patients: Evidence and Value.” ASOHNS Annual Society Meeting 2017, Adelaide, Australia. | 23 Mar 2017 |
| 54. Invited Speaker, “Optical Imaging to Detect Cancer in Real Time During Surgery.” ASOHNS Annual Society Meeting 2017, Adelaide, Australia. | 24 Mar 2017 |
| 55. Panelist, “Head and Neck Case Discussion Panel.” ASOHNS Annual Society Meeting 2017, Adelaide, Australia. | 24 Mar 2017 |
| 56. Invited Speaker, “Precision Surgery: Lighting Up Cancer.” UC San Diego Moores Cancer Center, San Diego, CA. | 25 Apr 2017 |
| 57. Invited Speaker “Open-field intraoperative molecular imaging” MSK 2nd Annual Intraoperative Imaging Technologies for Cancer Detection and Treatment, New York, NY. | Dec 2017 |

Teaching Activities: Continuing Medical Education (since 2010):

58. Invited Speaker, “Light up my tumor: Giving surgeons hope.” 2018 15 Feb 2018
AACR-SNMMI Joint Conference on State-of-the-Art Molecular Imaging in Cancer Biology and Therapy, San Diego, CA.
59. Panelist, “Surgical Trials.” Academy Colloquium Precision surgery by tumor targeted molecular imaging, Amsterdam, Netherlands. 17 Apr 2018
60. Invited Speaker, “The role of surgical leaders in supporting female surgeons.” AHNS Combined Otolaryngology Spring Meeting, National Harbor, Maryland. 19 Apr 2018
61. Keynote Speaker, “Optical Imaging for Head and Neck Cancer Surgery.” University of Kentucky, 4th Annual Bluegrass Research Conference, Lexington, Kentucky. May 2018
62. Invited Speaker, “Surgical Imaging.” 89th annual meeting of the German Society for Otorhinolaryngology, Head and Neck Surgery, Lübeck, Germany. May 2018
63. Invited Speaker and Panelist “Efficacy of endpoints based on context of use.” Translational Pathways for Optical Drugs and Devices for Cancer Imaging, hosted by the U.S. Food and Drug Administration (FDA). Sep 2018
64. Invited Speaker “Anti-EGFR Antibody Imaging Strategies for Real-Time Surgical and Pathologic Guidance.” Intraoperative Molecular Imaging Precision Surgery, University of Pennsylvania, Philadelphia, PA. 2 Nov 2018
65. Invited Speaker “Open-field intraoperative molecular imaging.” MSK 3rd Annual Intraoperative Imaging Technologies for Cancer Detection and Treatment, Memorial Sloan Kettering, New York, NY. 7 Dec 2018
66. Visiting Professor “Light up my tumor.” Case Western Reserve University, Cleveland, Ohio. 2018
67. Invited Speaker and panelist, “Improving physician workflow in the clinic.” Developing and Sustaining an Effective and Resilient Oncology Careforce. National Academy of Sciences, Washington, DC. 11 – 12 Feb 2019
68. Invited Speaker, “Using intraoperative imaging to improve surgical margins.” University of Pennsylvania Veterinarian School. Philadelphia, PA. 2019
69. Keynote Speaker, “Advances in surgical imaging.” Asian Society of Head and Neck Oncology, Seoul, Korea. 2019
70. Invited Speaker, “Free Vascularized Nerve Grafting for Immediate Facial Nerve Reconstruction.” Asian Society of Head and Neck Oncology, Seoul, Korea. 27 – 30 Mar 2019
71. Invited Speaker, “Lessons learned in surgery and research.” John Pointer Inaugural Lectureship, University of Alabama at Birmingham, Birmingham, AL. 2019

Teaching Activities: Continuing Medical Education (since 2010):

72. Invited Speaker, “Molecular guided surgery advances.” Advances in Optics for Biotechnology, Medicine, and Survey XVI, Engineering Conferences International. Mont Tremblent, Quebec, Canada. 2 – 6 Jun 2019
73. Invited Speaker, “Novel approaches to an old problem: Re-thinking oral cavity cancer.” AHNS Annual Meeting, Austin, Texas. 1 – 2 May 2019
74. Invited Speaker, “Clinical application of surgical imaging.” World Congress of the International Academy of Oral Oncology, Rome, Italy. 31 Aug – 3 Sep 2019
75. Invited Speaker, “Clinical Application of Fluorescence in the Operating Room.” Molecular-Guided Surgery: Molecules, Devices, and Applications, published in *Proceedings of SPIE* Vol 11222, San Francisco, CA, 6 March 2020. 2020
76. Invited Speaker, “Disruptive Technologies that could change the way things are done.” British Academic Conference of Otolaryngology (BACO) International 2020. Virtual Meeting. 8 – 10 Jul 2020
77. Panelist, “Reconstructive Showdown 2021” with Blake Golden, MD, FACS; Kelly Michele Malloy, MD; Gina D. Jefferson, MD, FACS. American Academy of Otolaryngology–Head and Neck Surgery 2021 Annual Meeting & OTO Expo, Los Angeles, CA and virtual. 3 – 6 Oct 2021
78. Invited Speaker, “Data Visualization.” Resident teaching conference, Department of Otolaryngology–Head and Neck Surgery, Vanderbilt University Medical Center, Nashville, TN. 14 Jan 2022
79. Invited Speaker. Molecular-Guided Surgery conference at SPIE Photonics West BIOS Expo 2022, San Francisco, CA. 22 – 23 Jan 2022
80. Invited Speaker, “Challenges, Insights, and Opportunities in the Crossroads of Otolaryngology and Optics.” Biophotonics Center Seminar, School of Engineering, Vanderbilt University, Nashville, TN. 19 Apr 2022
81. Virtual Grand Rounds, Department of Otolaryngology–Head and Neck Surgery, Vanderbilt University Medical Center, Nashville, TN. 23 Apr 2021
82. Invited Speaker, “Subcellular localization of biological drugs – new opportunities for understanding responses.” Coffey Lab, Department of Medicine, Vanderbilt University Medical Center, Nashville, TN. 15 Jun 2022
83. Invited Speaker, “Is that antibody going where you think it is going?” Cancer Biology Science Hour Seminar, Cancer Biology Program, Vanderbilt University Medical Center, Nashville, TN. 5 Oct 2022
84. Invited Speaker, “Where are therapeutic antibodies binding in tumors?” Host Tumor Interactions Program (HTIP) Faculty Meeting, Vanderbilt University Medical Center, Nashville, TN. 17 Oct 2022
85. Invited Speaker, “Delivery of Anti-EGFR Antibodies to Tumors.” EBC Seminar, Epithelial Biology Center Lab Meeting, Vanderbilt University Medical Center, Nashville, TN. 28 Oct 2022

Teaching Activities: Continuing Medical Education (since 2010):

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| 86. Invited Speaker, “Fluorescence guided cancer surgery using targeted tracers,” Surgical Technologies Distinguished Surgeon Lecture, University of Illinois at Urbana-Champaign, Urbana, IL (virtual). | 1 Nov 2022 |
| 87. Invited Speaker, “Molecular imaging of drug delivery,” Vanderbilt University Institute of Imaging Science (VUIIS) seminar series, Vanderbilt University, Nashville, TN. | 13 Jan 2023 |
| 88. Grand Rounds Speaker, “Intraoperative Molecular Imaging and Its Applications.” Department of Otolaryngology–Head and Neck Surgery Grand Rounds, Vanderbilt University Medical Center, Nashville, TN. | 3 Feb 2023 |
| 89. Invited Speaker and Panelist, “Building a Team Based Culture in a Complex Care Setting,” with Marilyn Dubree, David S. Haynes, Reid C. Thompson, and facilitators Reid Blackwelder and L. Brian Cross. Interprofessional Engagement Series, ETSU Quillen College of Medicine, East Tennessee State University, Johnson City, TN. | 17 Feb 2023 |
| 90. Invited Speaker, "Adventures in Reconstruction," Grand Rounds, Department of Otolaryngology–Head & Neck Surgery, Medical College of Georgia, Augusta University, Augusta, GA (virtual). | 7 Mar 2023 |
| 91. Speaker, “New FDA Guidance on Dosing of Oncology Agents Will Demand Investment in Molecular Imaging Strategies,” Epithelial Biology Center 2023 Symposium: Basic Biology to Therapeutic Intervention, Vanderbilt University Medical Center, Nashville, TN. | 3 Apr 2023 |
| 92. Invited Speaker, “Management of Complex Wounds in Head and Neck Oncology,” Memphis Society of Otolaryngology-Head and Neck Surgery, Memphis, TN. | 18 May 2023 |
| 93. Invited Speaker, “Fluorescent Guided Surgery,” 25th Annual Edwin Cocke, Jr., MD Research Symposium, Memphis Society of Otolaryngology-Head and Neck Surgery & University of Tennessee Health Science Center Otolaryngology-Head and Neck Surgery, Memphis, TN. | 19 May 2023 |
| 94. Invited Speaker, “Detection of surgical margins – today and tomorrow,” Grand Rounds, Department of Otolaryngology/Head & Neck Surgery, University of North Carolina, Chapel Hill, NC (virtual). | 7 Jun 2023 |

Teaching Activities: Mentorship: Medical Students:

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| 1. Mika Tabata, Stanford University School of Medicine, Stanford, CA. | 2016 – 2017 |
| 2. Sarah Miller, Stanford University School of Medicine, Stanford, CA. | 2016 – 2017 |
| 3. Shayan Fakurnejad, Stanford University School of Medicine, Stanford, CA. | 2016 – 2019 |
| 4. Rebecca Gao, Stanford University School of Medicine, Stanford, CA. | 2017 – 2018 |

Teaching Activities: Mentorship: Medical Students:

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| 5. Bronwyn Scott, Stanford University School of Medicine, Stanford, CA. | 2017 – 2018 |
| 6. Crista Horton, Stanford University School of Medicine, Stanford, CA. | 2018 – 2019 |
| 7. Matthew Liu, Dell Medical School, The University of Texas at Austin, Austin, TX. | April 2022 |
| 8. Christian Shannon, Dell Medical School, The University of Texas at Austin, Austin, TX. | April 2022 |
| 9. Derek Yan, Dell Medical School, The University of Texas at Austin, Austin, TX. | April 2022 |
| 10. Ashtyn McAdoo, School of Medicine, Vanderbilt University, Nashville, TN. | 2023 |

Teaching Activities: Mentorship: Graduate Students:

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| 1. Hadiyah-Nicole Green, PhD, MS, <i>A Minimally-Invasive Multifunctional Nano-Enabled Approach for Selective Targeting, Imaging, and NIR Photothermal Therapy of Tumors</i> | 2012 |
| 2. Esther de Boer, MD, PhD, BSC, <i>Antibody Based Surgical Imaging and Photodynamic Therapy for Cancer</i> | 2016 |
| 3. Alice Weaver, MD, PhD, <i>Cell Signaling Pathways as Targets for Precision Medicine in Head and Neck Squamous Cell Carcinoma</i> | 2016 |
| 4. Willemieke Tummers, MD, PhD, <i>Fluorescent Guided Surgery for Pancreatic Cancer</i> | 2016 |
| 5. Stan van Keulen, MD, PhD, <i>Fluorescent Specimen Mapping to using the Sentinel Margin Technique for Intraoperative Identification of Positive Margins</i> | 2018 |
| 6. Giri Krishnan, MD, PhD, <i>Surgical Imaging Using Minimally Invasive Techniques</i> | 2019 |
| 7. Candace J. Grisham, MS, PhD Committee member | 2023 |
| 8. Carly Fielder, MS | 2023 |

Teaching Activities: Mentorship: Postdoctoral Fellows:

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| 1. Tarn Teraphongphom, PhD, Stanford University, Stanford, CA. | 2015 – 2018 |
| 2. Zhen Qiu, PhD, Stanford University, Stanford, CA. | 2016 – 2018 |
| 3. Guolan Lu, PhD, Stanford University, Stanford, CA. | 2016 – present |
| 4. Nynke van den Berg, PhD, Stanford University, Stanford, CA. | 2017 – 2020 |
| 5. Naoki Nishio, MD, Stanford University, Stanford, CA. | 2018 – 2020 |
| 6. Quan Zhou, PhD, Stanford University, Stanford, CA. | 2018 – present |

Teaching Activities: Mentorship: Postdoctoral Fellows:

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| 7. Marisa Hom, PhD, Stanford University, Stanford, CA. | 2020 – 2021 |
| 8. Wenying Kang, PhD, Stanford University, Stanford, CA. | 2020 – present |
| 9. Laura Freeman, MD, Stanford University, Stanford, CA. | 2020 – present |
| 10. Abdullah Naveed, PhD, Vanderbilt University Medical Center, Nashville, TN. | 2022 – present |

Teaching Activities: Mentorship: Junior Faculty (External):

- | | |
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| 1. Thinzar Helmi Lwin, MD, MS, City of Hope Comprehensive Cancer Center, Duarte, CA. | 2015 – 2018 |
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Teaching Activities: Mentorship: Faculty Mentorship Committees:

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| 1. Adam J. Rosenberg, PhD, Vanderbilt University Medical Center, Nashville, TN. | 2015 – 2018 |
| 2. Aaron C. Moberly, MD, Vanderbilt University Medical Center, Nashville, TN. | 2022 – present |
| 3. Jennifer Choe, MD, PhD, Vanderbilt University Medical Center, Nashville, TN. | 2022 – present |
| 4. Adam J. Rosenberg, PhD, Vanderbilt University Medical Center, Nashville, TN. | 2022 – present |

Teaching Activities: Mentorship: Awards (since 2010):

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| 1. Joseph A. Knowles, MD: Best Resident Basic Science Paper Award
American Head and Neck Society
<i>Targeted Contrast Enhanced Ultrasound Improves Detection of Head and Neck Squamous Cell Carcinoma in Vitro and in Vivo</i> | 2011 |
| 2. Hadiyah-Nicole Green: Outstanding Research Poster Second Place
University of Illinois NanoBiophotonics Summer School
<i>A Minimally Invasive Multifunctional Nanoscale System for Selective Targeting, Imaging, and NIR Photothermal Therapy of Malignant Tumors</i> | 2011 |
| 3. Benjamin D. Bush: Poster Presentation (Best Poster, Cancer Therapy, Group L)
UASOM Medical Student Research Day
<i>Comparison of Surgical Approaches to Tumors of the Oropharynx</i> | 2011 |
| 4. Terence M. Zimmermann: Poster Presentation (Best Poster, Cancer Therapy)
UASOM Medical Student Research Day | 2011 |

Teaching Activities: Mentorship: Awards (since 2010):

The Prognosis of Bone Invasion in Small Squamous Cell Carcinomas of the Oral Cavity

5. John W. Frederick: Poster Presentation (1st Place Head and Neck Poster Award) 2012
Triological Society Combined Sections Meeting
Anti-CD147 inhibits proliferation by down regulation of EGFR in cutaneous SCC
6. Lauren Beck: Travel Award 2012
World Molecular Imaging Congress 2012
Identification of optimal therapeutic antibody for fluorescent imaging of cutaneous SCC
7. Nicholas Deep: Poster Presentation (1st Place Head and Neck Poster Award) 2012
8th Annual International Conference on Head and Neck Cancer
Phase II Study of Erlotinib Plus Radiation Therapy in Patients with Advance Cutaneous Squamous Cell Carcinoma
8. Larissa Sweeny, MD: 1st Place Lester A. Brown, M.D. Award 2013
UAB Division of Otolaryngology – Head and Neck Surgery
The Conjugation of a Antibody with a Small Drug Molecule Significantly Inhibits HNSCC
9. Lindsay S. Moore, MD: Poster Presentation (1st Place Poster Award in the Head and Neck Category) 2016
Triological Society 2016 Combined Sections Meeting
Fluorescence-Guided Surgery: Determining the Threshold for Cancer Detection Using Near-Infrared Optical Imaging in a Head and Neck Model
10. Linday S. Moore, MD: UAB Post Doc Career Enhancement Award 2016
11. Andrew Prince, MD: AOA Student Research Award 2016
Dose and Time Ranging of Anti-Angiogenic Agents for Enhanced Antibody-based Therapy in an Animal Model of Head and Neck Cancer
12. Sarah E. Miller: Poster Presentation (Stanford Medicine Alumni Association Award) 2017
34th Annual Medical Student Research Symposium
Phase I Clinical Trial for Intraoperative Imaging of Glioma Patients
13. Nutte Teraphongphom, PhD: World Molecular Imaging Congress 2017 Student Travel Stipend 2017
Study on dose escalation of Panitumumab-IRDye800 as an optical agent to enable image guided surgery in patients with head and neck cancer
14. Guolan Lu, PhD: Stanford Molecular Imaging Scholars (SMIS) Program Fellowship (T32) 2017
Stanford University, 2018-2021
15. Guolan Lu, PhD: Student Travel Award 2017

Teaching Activities: Mentorship: Awards (since 2010):

- World Molecular Imaging Congress (WMIC)
Molecular Imaging to Assess the Drug Delivery in Pancreatic Cancers,
Oral presentation.
16. Lindsay S. Moore, MD: Alavi–Mandell Award 2018
Society of Nuclear Medicine and Molecular Imaging
Characterizing the utilities and limitations of repurposing an open-field optical imaging device for fluorescence-guided surgery in head and neck cancer patients
17. Nynke van den Berg, PhD: Best Clinical Poster 2018
Stanford’s Annual Otolaryngology- Head and Neck Research Day
Intraoperative identification of metastatic lymph nodes in patients with head and neck cancer using panitumumab-IRDye800
18. Nynke van den Berg, PhD: Poster Presentation–Best Poster prize 2018
Annual AHNS meeting 2018- National Harbor, MD, US.
Intraoperative identification of metastatic lymph nodes in patients with head and neck cancer using panitumumab-IRDye800, a fluorescently labeled anti-EGFR
19. Guolan Lu, PhD: Industry Selected Poster Award 2018
World Molecular Imaging Congress (WMIC)
Quantifying Antibody Distribution in a First-In-Human Clinical Trial of Head and Neck Cancers
20. Stan van Keulen, MD: Best Oral Presentation, Young Investigator Award 2019
Head and Neck Cancer, Amsterdam, The Netherlands
Clinical Application of Fluorescence Guided Surgery in Head and Neck Cancer
21. Guolan Lu, PhD: Young Investigator Award Semi-Finalist Nomination 2019
World Molecular Imaging
Image-Guided Surgery Using Panitumumab-IRDye800CW for Pancreatic Cancer
22. Stan van Keulen, MD: Alavi-Mandell Award 2020
Society of Nuclear Medicine and Molecular Imaging
The Clinical Application of Fluorescence-Guided Surgery in Head and Neck Cancer
23. Naoki Nishio, MD, PhD: Under 40 Session: Excellent Presentation Award 2020
The 44th Annual Meeting of Japan Society for Head and Neck Cancer
Sentinel margins in fluorescence-guided surgery for head and neck cancer
24. Maj. Steven S. Hong, MD: Association of Military Surgeons of the United States Individual Professional Physician Award 2020
2020 Virtual AMSUS Annual Meeting
25. Giri Krishnan, MD: 2021 Robert Guerin Research Prize 2021

Teaching Activities: Mentorship: Awards (since 2010):

Garnett Passe and Rodney William's Memorial Foundation and the Australian Society of Otolaryngology Head and Neck Surgery
Metastatic lymph node mapping with IV Panitumumab-IRDye800CW

Research, Grants & Awards:**Research, Grants & Awards: Past Grant Support:**

1. *In Vivo Assessment of Immunofluorescent Guided Surgery* 2006 – 2009
 Research Scholar Award RSG-06-106-01-CCE (Rosenthal, PI)
 American Cancer Society
2. *Erlotinib in Patients with Non-Curable Squamous Cell Carcinoma of the Head and Neck* 2007 – 2013
 Investigator initiated, industry sponsored clinical trial (Rosenthal, PI)
 Genmab
3. *A Phase II Clinical Trial of Erlotinib and Radiotherapy in Patients with Stage III Cutaneous Squamous Cell Carcinomas* 2007 – 2013
 Investigator initiated, industry sponsored clinical trial (Rosenthal, PI)
 Genetech, Inc.
4. *Fluorescently Labeled Anti-EGFR Antibody to Guide Removal of Lymph Nodes* 2009 – 2012
 R21 Grant (Rosenthal, PI)
 NIH/NIDCR, (2 years, direct costs \$275,000)
5. Supplement: *Tumor-Stromal Interactions in HNSCC* 2009 – 2012
 K08 Training Award (Rosenthal, PI)
 NCI/NIH (2 years, direct costs \$81,820)
6. *CD147 as a Novel Target in Head and Neck Cancer* 2010 – 2015
 R01 CA142637-01 (Rosenthal, PI)
 NIH/NCI (5 years, direct costs \$933,750)
7. *Intra-operative Optical Imaging to Guide Surgical Resection of Cancer* 2010 – 2018
 NExT 217260 (Rosenthal, PI)
8. *A Randomized Controlled Trial of Pioglitazone For Oral Premalignant Lesions: An Interconsortium Collaborative Study* 2011 – 2013
 University of Wisconsin in Madison
 Principal Investigator (2 years, \$48,367)
9. *A Phase I, Open-label Study Evaluating the Safety of Escalating Doses of* 2011 – 2016

Research, Grants & Awards: Past Grant Support:

- Ad/PNP-F-araAMP (Ad/PNP Administered Intratumorally with Co-administration of Fludarabine Phosphate Intravenously in Subjects with Advanced Solid Tumors)*
PNP Therapy Trial
Principal Investigator (5 years, direct costs \$483,994)
10. *Optical Imaging of Primary and Regional Melanoma to Guide Surgical Resection* 2013 – 2015
R21 CA179171 (Rosenthal)
NIH/NCI
Principal Investigator (2 years, direct costs \$275,000)
11. *Image Guided Surgery using Fluorescently Labeled Cetuximab* 2013 – 2015
R21 CA182953 (Rosenthal, PI)
NIH/NCI
Principal Investigator (2 years, direct costs \$500,000)
12. *Phase I, Open-Label Study Evaluating the Safety and Pharmacokinetics of Escalating Doses of Cetuximab-IRDye800 as an Imaging agent to Detect Cancer* 2013 – 2016
Novadaq Technologies, Inc.
(3 years, direct costs \$50,000)
13. *Prototype device for image guided surgery with panitumumab-IRDye800* 2015 – 2020
1R01CA190306-01A1 (Rosenthal, PI)
NIH/NCI
14. *Upconverting Nanoparticles as Contrast aged for Image-Guided Surgery* 2016 – 2017
NCI CCNE-TD U54 (Rosenthal, PI)
NIH/NCI
15. *Upconverting Nanoparticles as Contrast aged for Image-Guided Surgery* 2016 – 2018
Standard Proposal #4373 (Rosenthal, PI)
Molecular Foundry, Livermore Laboratories
16. *Phase I - II Study of Ad/PNP (IND14271) for HNSCC (Orphan Drug Des, 14-4438)* 2018 – 2021
R01FD005746 (Rosenthal, MPI)
NIH/FDA
17. *A millimeter resolution clinical PET system dedicated to head and neck cancer imaging* 2019 – 2021
Coulter Endowment Program-University Research
Co-Investigator
18. *Reduction of Tumor-Positive Margins in Oncology Surgery* 10/11/2021 –
Project Number: VUMC95146 - (R37CA245157) 4/30/2022
PD/PI: Rosenthal, Eben (Warram, UAB)
Source of Support: NIH/National Cancer Institute (NCI)

Research, Grants & Awards: Past Grant Support:

Total Award Amount (including Indirect Costs): \$136,399

19. *Next Generation Sentinel Node Mapping* 2/01/2022 –
 Project Number: 7R01CA238686-03 7/31/2022
 PD/PI: Rosenthal, Eben
 Source of Support: NIH/National Cancer Institute (NCI)
 Total Award Amount (including Indirect Costs): \$49,106

Research, Grants & Awards: Active Grant Support:

20. *Minimally Invasive Nodal Staging in Head and Neck Cancer* 10/11/2021 –
 Project Number: MBG-21-024-01 – MBG 06/30/2023
 PD/PI: Rosenthal, Eben
 Source of Support: American Cancer Society
 Total Award Amount: \$240,000
21. *Optical Imaging to Improve Surgery & Targeted Therapy in Brain Tumors* 10/11/2021 –
 Project Number: VUMC97918 (R01CA239257) 04/30/2024
 PD/PI: Rosenthal, Eben
 Source of Support: Stanford University/National Cancer Institute (NCI)
 Total Award Amount (including Indirect Costs): \$180,000
22. *Targeted Dual Modality Imaging for Detection and Removal of Head and Neck Cancer* 07/01/2022 –
 Project Number: 1R01CA266233-01A1 06/30/2027
 PD/PI: Rosenthal, Eben
 Source of Support: NIH/National Cancer Institute (NCI)
 Total Award Amount (including Indirect Costs): \$2,647,692
23. *Fluorescence lifetime-based surgical specimen margin assessment during liver surgery* 07/01/2022 –
 Project Number: VUMC (R01) 06/30/2027
 PD/PI: Rosenthal, Eben
 Source of Support: Massachusetts General Hospital/NIH
 Total Award Amount: \$179,252
24. *Ultrasensitive Detection of Occult Pancreatic Cancer Using Intraoperative Molecular Fluorescent Imaging* 07/01/2022 –
 Project Number: VUMC (R01) 06/30/2027
 PD/PI: Rosenthal, Eben
 Source of Support: Stanford University/NCI
 Total Award Amount: \$322,211

Research, Grants & Awards: Pending Grant Support:

25. *Secondary Molecular Imaging for Specificity (SMIS) for head and neck cancer* 04/01/2023 –
 03/31/2028

Research, Grants & Awards: Pending Grant Support:

Project Number: 1R01
 PD/PI: Rosenthal, Eben
 Source of Support: NIH/National Cancer Institute (NCI)
 Total Award Amount: \$1,831,557

Research, Grants & Awards: Active Clinical Trials:

1. NCT number: 02415881 Aug 2016 – present
 Title: *Phase 1, Open-label Study Evaluating the Safety and Pharmacokinetics of Escalating Doses of Panitumumab-IRDye800 as an Optical Imaging Agent to Detect Head and Neck Cancer During Surgical Procedures*
 Study Drug: Panitumumab-IRDye800
 Tumor Type: Head and Neck: SCC
 PI: Eben Rosenthal
 IND/Holder: 119474/ Eben Rosenthal
2. NCT number: 03384238 Feb 2018 – present
 Title: *A Phase I/II Study Evaluating the Safety and Pharmacokinetics of Panitumumab-IRDye800 as an Optical Imaging Agent to Detect Pancreas Cancer During Surgical Procedures*
 Study Drug: Panitumumab-IRDye800
 Tumor type: Pancreas adenocarcinoma
 PI: George Poultsides
 IND/Holder: 119474/ Eben Rosenthal
3. NCT number: 03510208 May 2018 – present
 Title: *Phase I/II, Open-Label Study Evaluating the Efficacy and Pharmacokinetics of Panitumumab-IRDye800 as an Optical Imaging Agent to Detect Neoplasms during Neurosurgical Procedures*
 Study Drug: Panitumumab-IRDye800
 Tumor type: Brain: neoplasm, glioma
 Patients enrolled: 7
 PI: Gordon Li
 IND/Holder: 119474/ Eben Rosenthal
4. NCT number: 03582124 Jul 2018 – present
 Title: *A Phase I/II Study Evaluating the Safety and Pharmacokinetics of Panitumumab-IRDye800 as an Optical Imaging Agent to Detect Lung Cancer During Surgical Procedures*
 Study Drug: Panitumumab-IRDye800
 Tumor type: Lung: carcinoma, neoplasm
 PI: Natalie Liu
 IND/Holder: 119474/ Eben Rosenthal
5. NCT number: 03733210 Jan 2019 – present
 Title: *Pilot Study Evaluating Panitumumab IRDye800 and 89Zr Panitumumab for Dual Modality Imaging for Nodal Staging in Head and Neck Cancer*

Research, Grants & Awards: Active Clinical Trials:

Study Drug: Panitumumab-IRDye800,89Zr-Paniumumab
 Tumor type: Head and Neck: SCC
 PI: Eben Rosenthal
 IND/Holder: Zr: 135573, Pan800: 119747/ Eben Rosenthal

6. NCT number: 03405142 Aug 2019 – present
 Title: *A Phase II Study Evaluating Panitumumab IRDye800 vs. Sentinel Node Biopsy and (Selective) Neck Dissection for Metastatic Lymph Node Identification in Patients with Head and Neck Cancer*
 Study Drug: Panitumumab-IRDye800
 Tumor type: Head and Neck: Sentinel Node SCC
 Patients enrolled: 0
 PI: Eben Rosenthal / Fred Baik
 IND/Holder: 119474/ Eben Rosenthal

Publications and Presentations:**Publications and Presentations: Articles in refereed journals:**

1. Wax MK, **Rosenthal EL**, Takaguchi R, Cohen JI, Andersen PE, Futran N. Pulmonary atelectasis after reconstruction with a rectus abdominis free tissue transfer. *Arch Otolaryngol Head Neck Surg.* 2002 Mar;128(3):249-52. doi: 10.1001/archotol.128.3.249. PMID: 11886338.
2. Wax MK, **Rosenthal EL**, Winslow CP, Bascom DA, Andersen PE. The ulnar fasciocutaneous free flap in head and neck reconstruction. *Laryngoscope.* 2002 Dec;112(12):2155-60. doi: 10.1097/00005537-200212000-00005. PMID: 12461332.
3. **Rosenthal EL**, Masdon JL, Buckman C, Hawn M. Duplicate publications in the otolaryngology literature. *Laryngoscope.* 2003 May;113(5):772-4. doi: 10.1097/00005537-200305000-00002. PMID: 12792309.
4. Carroll WR, Rosenstiel D, Fix JR, de la Torre J, Solomon JS, Brodish B, **Rosenthal EL**, Heinz T, Niwas S, Peters GE. Three-dose vs extended-course clindamycin prophylaxis for free-flap reconstruction of the head and neck. *Arch Otolaryngol Head Neck Surg.* 2003 Jul;129(7):771-4. doi: 10.1001/archotol.129.7.771. PMID: 12874080.
5. **Rosenthal EL**, Shreenivas S, Peters GE, Grizzle WE, Desmond R, Gladson CL. Expression of extracellular matrix metalloprotease inducer in laryngeal squamous cell carcinoma. *Laryngoscope.* 2003 Aug;113(8):1406-10. doi: 10.1097/00005537-200308000-00027. PMID: 12897567.
6. **Rosenthal EL**, Dixon SF. Free flap complications: when is enough, enough? *Curr Opin Otolaryngol Head Neck Surg.* 2003 Aug;11(4):236-9. doi: 10.1097/00020840-200308000-00003. PMID: 14515069.
7. Wax MK, Burkey BB, Bascom D, **Rosenthal EL**. The role of free tissue transfer in the reconstruction of massive neglected skin cancers of the head and neck. *Arch Facial Plast Surg.* 2003 Nov-Dec;5(6):479-82. doi: 10.1001/archfaci.5.6.479. PMID: 14623684.
8. Suarez-Cuervo C, Merrell MA, Watson L, Harris KW, **Rosenthal EL**, Väänänen HK, Selander KS. Breast cancer cells with inhibition of p38alpha have decreased MMP-9 activity and exhibit

Publications and Presentations: Articles in refereed journals:

- decreased bone metastasis in mice. *Clin Exp Metastasis*. 2004;21(6):525-33. doi: 10.1007/s10585-004-3503-x. PMID: 15679050.
9. **Rosenthal EL**, McCrory A, Talbert M, Carroll W, Magnuson JS, Peters GE. Expression of proteolytic enzymes in head and neck cancer-associated fibroblasts. *Arch Otolaryngol Head Neck Surg*. 2004 Aug;130(8):943-7. doi: 10.1001/archotol.130.8.943. PMID: 15313864.
 10. **Rosenthal EL**, Zhang W, Talbert M, Raisch KP, Peters GE. Extracellular matrix metalloprotease inducer-expressing head and neck squamous cell carcinoma cells promote fibroblast-mediated type I collagen degradation in vitro. *Mol Cancer Res*. 2005 Apr;3(4):195-202. doi: 10.1158/1541-7786.MCR-04-0203. PMID: 15831673.
 11. Vidrine DM, Kaler S, **Rosenthal EL**. A comparison of negative-pressure dressings versus Bolster and splinting of the radial forearm donor site. *Otolaryngol Head Neck Surg*. 2005 Sep;133(3):403-6. doi: 10.1016/j.otohns.2005.04.028. PMID: 16143190.
 12. **Rosenthal EL**, Blackwell KE, McGrew B, Carroll WR, Peters GE. Use of negative pressure dressings in head and neck reconstruction. *Head Neck*. 2005 Nov;27(11):970-5. doi: 10.1002/hed.20265. PMID: 16127668.
 13. Pezold JC, Zinn K, Talbert MA, Desmond R, **Rosenthal EL**. Validation of ultrasonography to evaluate murine orthotopic oral cavity tumors. *ORLJ Otorhinolaryngol Relat Spec*. 2006;68(3):159-63. doi: 10.1159/000091324. Epub 2006 Feb 6. PMID: 16465070.
 14. Zhang W, Matrisian LM, Holmbeck K, Vick CC, **Rosenthal EL**. Fibroblast-derived MT1-MMP promotes tumor progression in vitro and in vivo. *BMC Cancer*. 2006 Mar 6;6:52. doi: 10.1186/1471-2407-6-52. PMID: 16515711; PMCID: PMC1450297.
 15. Eller RL, Livingston WJ 3rd, Morgan CE, Peters GE, Sillers MJ, Magnuson JS, **Rosenthal EL**. Expandable tracheal stenting for benign disease: worth the complications? *Ann Otol Rhinol Laryngol*. 2006 Apr;115(4):247-52. doi: 10.1177/000348940611500401. PMID: 16676820.
 16. Karnell LH, Funk GF, Christensen AJ, **Rosenthal EL**, Magnuson JS. Persistent posttreatment depressive symptoms in patients with head and neck cancer. *Head Neck*. 2006 May;28(5):453-61. doi: 10.1002/hed.20370. PMID: 16320360.
 17. Lindman JP, Talbert M, Zhang W, Powell B, Accortt NA, **Rosenthal EL**. Promotion of acellular dermal matrix resolution in vitro by matrix metalloproteinase-2. *Arch Facial Plast Surg*. 2006 May-Jun;8(3):208-12. doi: 10.1001/archfaci.8.3.208. PMID: 16702534.
 18. Kulbersh BD, **Rosenthal EL**, McGrew BM, Duncan RD, McColloch NL, Carroll WR, Magnuson JS. Pretreatment, preoperative swallowing exercises may improve dysphagia quality of life. *Laryngoscope*. 2006 Jun;116(6):883-6. doi: 10.1097/01.mlg.0000217278.96901.fc. PMID: 16735913.
 19. Shreenivas S, Magnuson JS, **Rosenthal EL**. Use of negative-pressure dressings to manage a difficult surgical neckwound. *Ear Nose Throat J*. 2006 Jun;85(6):390-1. PMID: 16866117.
 20. **Rosenthal EL**, Matrisian LM. Matrix metalloproteases in head and neck cancer. *Head Neck*. 2006 Jul;28(7):639-48. doi: 10.1002/hed.20365. PMID: 16470875; PMCID: PMC2873217.
 21. **Rosenthal EL**, Vidrine DM, Zhang W. Extracellular matrix metalloprotease inducer stimulates fibroblast-mediated tumor growth in vivo. *Laryngoscope*. 2006 Jul;116(7):1086-92. doi: 10.1097/01.mlg.0000224368.58870.3c. PMID: 16826041.

Publications and Presentations: Articles in refereed journals:

22. **Rosenthal EL**, Kulbersh BD, Duncan RD, Zhang W, Magnuson JS, Carroll WR, Zinn K. In vivo detection of head and neck cancer orthotopic xenografts by immunofluorescence. *Laryngoscope*. 2006 Sep;116(9):1636-41. doi: 10.1097/01.mlg.0000232513.19873.da. PMID: 16954995.
23. Karnell LH, Christensen AJ, **Rosenthal EL**, Magnuson JS, Funk GF. Influence of social support on health-related quality of life outcomes in head and neck cancer. *Head Neck*. 2007 Feb;29(2):143-6. doi: 10.1002/hed.20501. PMID: 17111431.
24. **Rosenthal EL**, Kulbersh BD, King T, Chaudhuri TR, Zinn KR. Use of fluorescent labeled anti-epidermal growth factor receptor antibody to image head and neck squamous cell carcinoma xenografts. *Mol Cancer Ther*. 2007 Apr;6(4):1230-8. doi: 10.1158/1535-7163.MCT-06-0741. PMID: 17431103.
25. Withrow KP, **Rosenthal EL**, Gourin CG, Peters GE, Magnuson JS, Terris DJ, Carroll WW. Free tissue transfer to manage salvage laryngectomy defects after organ preservation failure. *Laryngoscope*. 2007 May;117(5):781-4. doi: 10.1097/MLG.0b013e3180332e39. PMID: 17473668.
26. Kulbersh BD, Duncan RD, Magnuson JS, Skipper JB, Zinn K, **Rosenthal EL**. Sensitivity and specificity of fluorescent immunoguided neoplasm detection in head and neck cancer xenografts. *Arch Otolaryngol Head Neck Surg*. 2007 May;133(5):511-5. doi: 10.1001/archotol.133.5.511. PMID: 17520766.
27. Gleysteen JP, Duncan RD, Magnuson JS, Skipper JB, Zinn K, **Rosenthal EL**. Fluorescently labeled cetuximab to evaluate head and neck cancer response to treatment. *Cancer Biol Ther*. 2007 Aug;6(8):1181-5. doi: 10.4161/cbt.6.8.4379. Epub 2007 May 3. PMID: 17637562.
28. Zhu ZB, Mathis JM, Makhija SK, Lu B, Wang M, Ji S, Rivera AA, **Rosenthal EL**, Siegal GP, Curiel DT. Targeting of a conditionally replicative adenovirus agent to human squamous cell carcinomas of the head and neck. *Int J Oncol*. 2007 Nov;31(5):1213-22. PMID: 17912450.
29. Withrow KP, Gleysteen JP, Safavy A, Skipper J, Desmond RA, Zinn K, **Rosenthal EL**. Assessment of indocyanine green-labeled cetuximab to detect xenografted head and neck cancer cell lines. *Otolaryngol Head Neck Surg*. 2007 Nov;137(5):729-34. doi: 10.1016/j.otohns.2007.06.736. PMID: 17967636.
30. **Rosenthal EL**, King T, McGrew BM, Carroll W, Magnuson JS, Wax MK. Evolution of a paradigm for free tissue transfer reconstruction of lateral temporal bone defects. *Head Neck*. 2008 May;30(5):589-94. doi: 10.1002/hed.20744. PMID: 18213723.
31. Gleysteen JP, Newman JR, Chhieng D, Frost A, Zinn KR, **Rosenthal EL**. Fluorescent labeled anti-EGFR antibody for identification of regional and distant metastasis in a preclinical xenograft model. *Head Neck*. 2008 Jun;30(6):782-9. doi: 10.1002/hed.20782. PMID: 18228526; PMCID: PMC4402971.
32. Asher SA, Peters GE, Pehler SF, Zinn K, Newman JR, **Rosenthal EL**. Fluorescent detection of rat parathyroid glands via 5-aminolevulinic acid. *Laryngoscope*. 2008 Jun;118(6):1014-8. doi: 10.1097/MLG.0b013e3181671b61. PMID: 18520821.
33. Newman JR, Gleysteen JP, Barañano CF, Bremser JR, Zhang W, Zinn KR, **Rosenthal EL**. Stereomicroscopic fluorescence imaging of head and neck cancer xenografts targeting CD147. *Cancer Biol Ther*. 2008 Jul;7(7):1063-70. doi: 10.4161/cbt.7.7.6109. Epub 2008 Apr 14. PMID: 18431087; PMCID: PMC2705783.

Publications and Presentations: Articles in refereed journals:

34. Andrades P, Pehler SF, Baranano CF, Magnuson JS, Carroll WR, **Rosenthal EL**. Fistula analysis after radial forearm free flap reconstruction of hypopharyngeal defects. *Laryngoscope*. 2008 Jul;118(7):1157-63. doi: 10.1097/MLG.0b013e31816f695a. PMID: 18438265.
35. Andrades P, **Rosenthal EL**, Carroll WR, Baranano CF, Peters GE. Zygomatic-maxillary buttress reconstruction of midface defects with the osteocutaneous radial forearm free flap. *Head Neck*. 2008 Oct;30(10):1295-302. doi: 10.1002/hed.20874. PMID: 18642322.
36. Newman JR, Bohannon IA, Zhang W, Skipper JB, Grizzle WE, **Rosenthal EL**. Modulation of tumor cell growth in vivo by extracellular matrix metalloprotease inducer. *Arch Otolaryngol Head Neck Surg*. 2008 Nov;134(11):1218-24. doi: 10.1001/archotol.134.11.1218. PMID: 19015455; PMCID: PMC2676729.
37. Skipper JB, McNally LR, **Rosenthal EL**, Wang W, Buchsbaum DJ. In vivo efficacy of marimastat and chemoradiation in head and neck cancer xenografts. *ORL J Otorhinolaryngol Relat Spec*. 2009;71(1):1-5. doi: 10.1159/000163217. Epub 2008 Oct 16. PMID: 18931526; PMCID: PMC2700630.
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257. Van Keulen S, Hom M, White H, **Rosenthal EL**, Baik FM. The Evolution of Fluorescence-Guided Surgery. *Mol Imaging Biol*. 2023 Feb;25(1):36-45. doi: 10.1007/s11307-022-01772-8. Epub 2022 Sep 19. PMID: 36123445; PMCID: PMC9971137.
258. Crawford KL, Lee YJ, Hom M, **Rosenthal EL**, Orosco RK, Nguyen QT. Identification of Degenerated Murine Facial Nerves With Fluorescence Labeling After Transection Injury. *Otolaryngol Head Neck Surg*. 2023 Feb 9. doi: 10.1002/ohn.262. Epub ahead of print. PMID: 36758958.
259. Beute JE, Greenberg LA, Wein LE, Kapustin DA, Fan J, Dowling EM, Samankan S, Matloob A, Xing M, Modica I, Chung D, Carroll W, **Rosenthal EL**, Khan MN, Chai RL, Brandwein-Weber MS, Urken ML. WPOI-5: Accurately Identified at Intraoperative Consultation and Predictive of Occult Cervical Metastases. *Head Neck Pathol*. 2023 Feb 28. doi: 10.1007/s12105-023-01533-1. Epub ahead of print. PMID: 36849672.

Publications and Presentations: Articles in refereed journals:

260. Henderson ER, Hebert KA, Werth PM, Streeter SS, **Rosenthal EL**, Paulsen KD, Pogue BW, Samkoe KS. Fluorescence guidance improves the accuracy of radiological imaging-guided surgical navigation. *J Surg Oncol*. 2023 Mar;127(3):490-500. doi: 10.1002/jso.27128. Epub 2022 Oct 26. PMID: 36285723.

Publications and Presentations: Other:

- | | |
|---|-------------|
| 1. Doctor Radio's ENT Show, SiriusXM Channel 132. | 24 Aug 2022 |
| 2. Featured in "Cutting-edge advances in cancer treatment are underway. Here are 3 that could change lives." Karen, Weintraub, <i>USA Today</i> . | 20 Apr 2023 |

Publications and Presentations: Presentations at Scientific Meetings (since 2010):

- | | |
|---|-------------|
| 1. Invited Keynote Speaker, "Molecular Imaging and Fluorescence in the Treatment of Cancer." Summit for Perfusion Imaging and Excellence in Surgery, November 16-18, 2012. Las Vegas, NV. | Nov 2012 |
| 2. Invited Speaker, "Oropharynx Reconstruction - Why bother?" Annual Meeting American Academy of Otolaryngology – HNS COSM, April 6-10, 2013. Orlando, FL. | Apr 2013 |
| 3. Moderator, "Laryngology/Broncho-Esophagology, Facial Plastic & Reconstructive Surgery; Head & Neck Surgery." 2013 AAO-HNSF Annual Meeting and Oto Expo, Vancouver, BC, Canada. | 30 Sep 2013 |
| 4. Miniseminar, "Surgical Management of the Patient with Facial Paralysis." 2013 AAO-HNSF Annual Meeting and Oto Expo, Vancouver, BC, Canada. | 30 Sep 2013 |
| 5. Miniseminar, "Grant Writing Pearls and Pitfalls: Maximizing Your Funding." 2013 AAO-HNSF Annual Meeting and Oto Expo, Vancouver, BC, Canada. | 1 Oct 2013 |
| 6. Invited Speaker, "Microvascular Reconstruction Update." Multidisciplinary Head & Neck Cancer Symposium, Scottsdale, AZ. | 21 Feb 2014 |
| 7. Panelist and Speaker, "Imaging as a Prognostic Tool." IFHNOS 5th World Congress and AHNS Annual Meeting, New York, NY. | 27 Jul 2014 |
| 8. Miniseminar, "The Pearls and Pitfalls of Grant Writing: Maximizing Your Funding." 2014 AAO-HNSF Annual Meeting and Oto Expo, Orlando, FL. | 21 Sep 2014 |
| 9. Miniseminar, "Surgical Management of the Patient with Facial Paralysis." 2014 AAO-HNSF Annual Meeting and Oto Expo, Orlando, FL. | 22 Sep 2014 |

Publications and Presentations: Presentations at Scientific Meetings (since 2010):

10. Miniseminar, "Surgery with Optical Imaging: Fluorescence Guided and Molecular Navigation." 2014 AAO-HNSF Annual Meeting and Oto Expo, Orlando, FL. 23 Sep 2014
11. Panelist and Speaker, "Antibody Based Imaging." ACS Clinical Congress, San Francisco, CA. 27 Oct 2014
12. Panelist and Speaker, "Tumor-specificity of Cetuximab-IRDye800 for surgical navigation in squamous cell cancer." AACR-SNMMI State-of-the-Art Molecular Imaging in Cancer Biology and Therapy, San Diego, CA. 12 Feb 2015
13. Invited Speaker, "Optical imaging for surgical navigation." Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, Weston, FL. 6 Mar 2015
14. Panelist and Speaker, "Oropharynx." Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, Weston, FL. 6 Mar 2015
15. Panelist and Speaker, "Oral cavity and skin cases." Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, Weston, FL. 6 Mar 2015
16. Invited Speaker, "Laryngopharyngectomy, reconstruction, and postop care." Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, Weston, FL. 7 Mar 2014
17. Panelist and Speaker, "Thyroid/Salivary gland cancer cases." Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, Weston, FL. 7 Mar 2015
18. Invited Speaker, "Safety and Tumor-specificity of Cetuximab-IRDye800 for Surgical Navigation in Head and Neck Cancer." CORLAS Annual Meeting, San Francisco, CA. 26 Aug 2015
19. Moderator, "OSN – IND Successes and Pitfalls." World Molecular Imaging Conference, Honolulu, HI. 2 Sep 2015
20. Moderator, "OSN Panel: Devices for Surgical Imaging – What is Needed?" World Molecular Imaging Conference, Honolulu, HI. 2 Sep 2015
21. Panelist, "Surgical Management of the Patient with Facial Paralysis." 2015 AAO-HNSF Annual Meeting and Oto Expo, Dallas, TX. 28 Sep 2015
22. Invited Speaker, "Optical Imaging to Detection During Surgery: Early Phase Clinical Trial Data." SPIE Translational Biophotonics 2016, Houston, TX. 16 May 2016
23. Invited Speaker, "Optical Imaging for Surgical Navigation." 2016 Midwest Preclinical Imaging Consortium, Madison, WI. 17 May 2016
24. Invited Speaker, "Next Generation Imaging." Fluorescence-Theranostics Symposium, Groningen, Netherlands. 15 Jun 2016
25. Invited Speaker, "Surgical Management Using Fluorescence-Guided Surgery." ASIGS Surgical Navigation Update 2016, Stanford, CA. 26 Jun 2016
26. Invited Speaker, "Lack of Consensus Between Patients and Doctors: Should Our Health System Allow Rapid Electronic Release of Cancer

Publications and Presentations: Presentations at Scientific Meetings (since 2010):

- Results to Patients?" 2016 Annual Corlas Meeting Collegium 2016, Bordeaux, France.
27. Invited Speaker, "New Developments in Optical Imaging for Head and Neck Cancer." Nineteenth Annual West Hawaii Cancer Symposium, Hualalai, HI. 10 Sep 2016
 28. Invited Speaker, "Intraoperative Imaging." Intraoperative Imaging Technologies for Cancer Detection and Treatment, MSKCC October, New York, NY. Oct 2016
 29. Invited Speaker, "Surgical Imaging in Cancer." Cancer Targets & Nanomedicine Seminar Series, Dallas, TX. 20 Nov 2016
 30. Invited Speaker, "Imaging in Head & Neck Cancer." Illuminating Developments in Head and Neck Imaging, Boston, MA. 9 Dec 2016
 31. Invited Speaker, "Imaging Primary Tumors During Resection." Optical and Molecular Imaging Strategies in Surgery Meeting, Las Vegas, NV. 10 Feb 2017
 32. Invited Speaker, "Osteocutaneous Flap Reconstruction in the Head and Neck." Annual Meeting of the Israeli Society of Otolaryngology Head and Neck Surgery, Eilat, Israel. 1 Mar 2017
 33. Invited Keynote Speaker, "Management of Complex Wounds in the Head and Neck." Annual Meeting of the Israeli Society of Otolaryngology Head and Neck Surgery, Eilat, Israel. 2 Mar 2017
 34. Invited Speaker, "Management of Complex Wounds in the Head and Neck." Annual Meeting of the Israeli Society of Otolaryngology Head and Neck Surgery, Eilat, Israel. 2 Mar 2017
 35. Invited Keynote Speaker, "Management of the Larynx in the Area of Chemoradiation." Annual Meeting Israeli Society of Otolaryngology Head and Neck Surgery, Eilat, Israel. 2 Mar 2017
 36. Invited Keynote Speaker, "Head and Neck Cancer Patient Follow-up." Annual Meeting of the Israeli Society of Otolaryngology Head and Neck Surgery, Eilat, Israel. 3 Mar 2017
 37. Invited Speaker, "Follow-up of Head and Neck Cancer Patients: Evidence and Value." ASOHNS Annual Society Meeting 2017, Adelaide, Australia. 23 Mar 2017
 38. Invited Speaker, "Optical Imaging to Detect Cancer in Real Time During Surgery." ASOHNS Annual Society Meeting 2017, Adelaide, Australia. 24 Mar 2017
 39. Panelist, "Head and Neck Case Discussion Panel." ASOHNS Annual Society Meeting 2017, Adelaide, Australia. 24 Mar 2017
 40. Invited Speaker "Open-field intraoperative molecular imaging" MSK 2nd Annual Intraoperative Imaging Technologies for Cancer Detection and Treatment, New York, NY. Dec 2017

Publications and Presentations: Presentations at Scientific Meetings (since 2010):

41. Invited Speaker, “Light up my tumor: Giving surgeons hope.” 2018 15 Feb 2018
AACR-SNMMI Joint Conference on State-of-the-Art Molecular Imaging in Cancer Biology and Therapy, San Diego, CA.
42. Panelist, “Surgical Trials.” Academy Colloquium Precision surgery by tumor targeted molecular imaging, Amsterdam, Netherlands. 17 Apr 2018
43. Invited Speaker, “The role of surgical leaders in supporting female surgeons.” AHNS Combined Otolaryngology Spring Meeting, National Harbor, Maryland. 19 Apr 2018
44. Keynote Speaker, “Optical Imaging for Head and Neck Cancer Surgery.” University of Kentucky, 4th Annual Bluegrass Research Conference, Lexington, Kentucky. May 2018
45. Invited Speaker, “Surgical Imaging” 89th annual meeting of the German Society for Otorhinolaryngology, Head and Neck Surgery, Lübeck, Germany. May 2018
46. Invited Speaker “Open-field intraoperative molecular imaging” MSK 2018
3rd Annual Intraoperative Imaging Technologies for Cancer Detection and Treatment, Memorial Sloan Kettering, New York, NY.
47. Invited Speaker and panelist, “Improving physician workflow in the clinic.” Developing and Sustaining an Effective and Resilient Oncology Careforce. National Academy of Sciences, Washington, DC. 2019
48. Keynote Speaker, “Advances in surgical imaging.” Asian Society of Head and Neck Oncology, Seoul, Korea. 2019
49. Invited Speaker, “Free Vascularized Nerve Grafting for Immediate Facial Nerve Reconstruction.” Asian Society of Head and Neck Oncology, Seoul, Korea. 2019
50. Invited Speaker, “Molecular guided surgery advances.” Advances in Optics for Biotechnology, Medicine, and Survey XVI, Engineering Conferences International. Mont Tremblant, Quebec, Canada. 2019
51. Invited Speaker, “Novel approaches to an old problem: Re-thinking oral cavity cancer.” AHNS Annual Meeting, Austin, Texas. 2019
52. Invited Speaker, “Clinical application of surgical imaging.” World Congress of the International Academy of Oral Oncology, Rome, Italy. 2019
53. Invited Speaker, “Clinical Application of Fluorescence in the Operating Room.” Molecular-Guided Surgery: Molecules, Devices, and Applications. Proceedings of SPIE Vol 11222, San Francisco, CA. 2020
54. Invited Speaker, “Disruptive Technologies that could change the way things are done.” BACO International 2020. Virtual Meeting. 2021
55. Invited Speaker, “Between two tissues: fluorescent guided surgery to improve clinical outcomes in head and neck tumors.” Image-

Publications and Presentations: Presentations at Scientific Meetings (since 2010):

- Guided Surgery: Advances and Challenges, National Cancer Institute (NCI), National Institutes of Health (NIH). Virtual Meeting.
56. Panelist, “HPV Update 2022.” Vanderbilt Otolaryngology Symposium: 43rd Sisson-Ossoff International Workshop, Department of Otolaryngology–Head and Neck Surgery, Vanderbilt University Medical Center, Vail, CO, 6–10 Feb 2022. 8 Feb 2022
 57. Chair and Invited Speaker, “Molecular imaging of head and neck cancer.” *Cancers* Webinar: Plasma Oncology, part of the MDPI Cancers Webinars series, virtual. 18 Jan 2023
 58. Panelist, “Clinical Trials,” with Alex Vahrmeijer, George Poultsides, and Sunil Singhal. 2023 Stanford Molecular Imaging Symposium, Stanford Medicine, Stanford, CA. 27 Jan 2023
 59. Speaker, “Welcome & Announcements,” Vanderbilt Otolaryngology Symposium: 44th Sisson-Ossoff International Workshop, Department of Otolaryngology–Head and Neck Surgery, Vanderbilt University Medical Center, Vail, CO, 5–10 Feb 2023. 5 Feb 2023
 60. Panelist, “Updates and Advances in the Treatment of HPV+ Oropharyngeal Cancer,” with moderator Nicole Fowler and panelists Derrick Lin, Kyle Mannion, and Vikas Mehta. Vanderbilt Otolaryngology Symposium: 44th Sisson-Ossoff International Workshop, Department of Otolaryngology–Head and Neck Surgery, Vanderbilt University Medical Center, Vail, CO, 5–10 Feb 2023. 6 Feb 2023
 61. Invited Speaker, “Surgical Advances with Chemical Probes and Intraoperative Imaging,” American Association for Cancer Research (AACR) Annual Meeting, Orlando, FL. 16 Apr 2023
 62. Invited Speaker, “Otolaryngology: Management of Margins and Treatment Paradigms in Head and Neck Cancer,” 2023 Annual Clinical Assembly of the American Osteopathic Colleges of Ophthalmology and Otolaryngology–Head and Neck Surgery (AOCOO-HNS), Carlsbad, CA. 29 Apr 2023
 63. Panelist, “Otolaryngology: Tumor Board: Challenging Head and Neck Cases,” with Rizwan Aslam, DO, Joseph Tortorich, DO, Shant Korkigian, DO, and Cristina Mimikos, DO, 2023 Annual Clinical Assembly of the American Osteopathic Colleges of Ophthalmology and Otolaryngology–Head and Neck Surgery (AOCOO-HNS), Carlsbad, CA. 29 Apr 2023