

**VANDERBILT UNIVERSITY SCHOOL OF MEDICINE
FACULTY CURRICULUM VITAE**

January 2022

PERSONAL INFORMATION:

Name: Eben Lloyd Rosenthal, M.D.
Citizenship: USA
Rank/Title: Guy M. Maness Professor and Chair
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EDUCATION:

Haverford College <i>Haverford, Pennsylvania</i>	B.A.	1984 – 1988
University of Michigan Medical School <i>Ann Arbor, Michigan</i>	M.D.	1990 - 1994

LICENSURE:

State of Tennessee	64093	2021
State of California	136361	2015
State of Alabama	24189	2001
State of Oregon	22470	2000
State of Michigan	129011	1997

BOARD CERTIFICATION:

American Board of Otolaryngology	16697	May 7, 2001
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POSTDOCTORAL TRAINING:

July 1994 - June 1995	Internship - General Surgery	University of Michigan Medical Center <i>Ann Arbor, Michigan</i>
July 1995 - June 2000	Residency - Otolaryngology	University of Michigan Medical Center <i>Ann Arbor, Michigan</i>

July 2000 - June 2001	Fellowship - Facial Plastic & Reconstructive Surgery	Oregon Health Sciences University <i>Portland, Oregon</i>
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ACADEMIC APPOINTMENTS:

Oct 2021 – present	Guy M. Maness Professor	Department of Otolaryngology–Head and Neck Surgery <i>Vanderbilt University School of Medicine</i>
Oct 2021 – present	Chair	Department of Otolaryngology–Head and Neck Surgery <i>Vanderbilt University Medical Center</i>
July 2016 – Sep 2021	Professor of Radiology (<i>courtesy</i>)	Department of Radiology <i>Stanford University School of Medicine</i>
July 2015 – Sep 2021	Ann and John Doerr Medical Director	Stanford Cancer Center <i>Stanford Health Care</i>
July 2015 – Sep 2021	Associate Director of Clinical Care	Stanford Cancer Institute <i>Stanford University School of Medicine</i>
July 2015 – Sep 2021	Professor of Otolaryngology	Department of Otolaryngology-HNS <i>Stanford University School of Medicine</i>
July 2012 - June 2015	Division Director John S. Odess Professor of Surgery	Division of Otolaryngology-HNS <i>University of Alabama at Birmingham</i>
Jan 2011 - June 2013	Residency Program Director	Division of Otolaryngology-HNS <i>University of Alabama at Birmingham</i>
2011 - 2012	Julius N. Hicks Professor of Surgery	Division of Otolaryngology-HNS <i>University of Alabama at Birmingham</i>
2006 - 2010	Julius N. Hicks Associate Professor of Surgery	Department of Radiology <i>University of Alabama at Birmingham</i>
2001 - 2005	Assistant Professor of Surgery	Division of Otolaryngology-HNS <i>University of Alabama at Birmingham</i>

EXECUTIVE LEADERSHIP:

2021-present	Guy M. Maness Professor and Chair Responsible for Vanderbilt University Medical Center’s Department of Otolaryngology–Head and Neck Surgery.
2015-21	Ann and John Doerr Medical Director Stanford Cancer Center Responsible for quality and multidisciplinary care for 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.

2012-15 Division Chief of Otolaryngology
Managed 6-million-dollar budget, contributed 15% annually to reserves.
Responsible for transition of Division of Otolaryngology to Departmental status.

Awards/Honors

1998 The Merle Lawrence Research Award for Best Basic Science Research Paper
1998 First Place Award in Basic Science Category, AAO-HNS
1999 The John L. Kemink Research Award for Best Clinical Research Paper
1999 Best Research Paper, Walter P. Work Society
2000 Resident Travel Grant Award, Triological Society
2002 John W. Kirklin Research and Education Foundation Fellowship Award
2005 Outstanding Faculty Member Teaching Award – Otolaryngology
2006 Honorable Mention Triological Thesis – Triological Society
2006 Honor Award – American Academy of Otolaryngology
2007 - Present Best Doctors in America
2007 Harry and Elsa Jiler Travel Award
2008 Argus Teaching Award – UAB School of Medicine
2008 Outstanding Faculty Member Teaching Award – Otolaryngology
2010 Honor Award – American Academy of Otolaryngology
2018 Distinguished Service Award – American Academy of Otolaryngology
2019 Stanford University Leadership Academy

Mentored Graduate Students

- 2012 Hadiyah-Nicole Green, PhD, MS
A Minimally-Invasive Multifunctional Nano-Enabled Approach for Selective Targeting, Imaging, and NIR Photothermal Therapy of Tumors
- 2016 Esther de Boer, MD, PhD, BSC
Antibody Based Surgical Imaging and Photodynamic Therapy for Cancer
- 2016 Alice Weaver, MD, PhD
Cell Signaling Pathways as Targets for Precision Medicine in Head and Neck Squamous Cell Carcinoma
- 2016 Willemieke Tummers, MD, PhD
Fluorescent Guided Surgery for Pancreatic Cancer
- 2018 Stan van Keulen, MD, PhD
Fluorescent Specimen Mapping to using the Sentinel Margin Technique for Intraoperative Identification of Positive Margins
- 2019 Giri Krishnan, MD, PhD
Surgical Imaging Using Minimally Invasive Techniques

Mentored Medical Students (Stanford)

- 2016-2017 Mika Tabata
2016-2017 Sarah Miller
2016-2019 Shayan Fakurnejad
2017-2018 Rebecca Gao
2017-2018 Bronwyn Scott
2018-2019 Crista Horton

Postdoctoral fellows

- 2015 – 2018 Tarn Teraphongphom, PhD
2016 – 2018 Zhen Qiu, PhD
2016 – Present Guolan Lu, PhD
2017 – 2020 Nynke van den Berg, PhD
2018 – 2020 Noaki Nishio, MD
2018 – Present Quan Zhou, PhD
2020 – Present Wenying Kang, PhD
2020 – Present Laura Freeman, MD
2020 – Present Marisa Hom, PhD

MENTORED AWARDS (since 2010):

- 2011 Best Resident Basic Science Paper Award – Joseph A. Knowles, MD
American Head and Neck Society
Targeted Contrast Enhanced Ultrasound Improves Detection of Head and Neck Squamous Cell Carcinoma in Vitro and in Vivo
- 2011 Outstanding Research Poster Second Place – Hadiyah-Nicole Green
University of Illinois NanoBiophotonics Summer School
A Minimally Invasive Multifunctional Nanoscale System for Selective Targeting, Imaging, and

NIR Photothermal Therapy of Malignant Tumors

- 2011 Poster Presentation (Best Poster, Cancer Therapy, Group L) – Benjamin D. Bush
UASOM Medical Student Research Day
Comparison of Surgical Approaches to Tumors of the Oropharynx
- 2011 Poster Presentation (Best Poster, Cancer Therapy) – Terence M. Zimmermann
UASOM Medical Student Research Day
The Prognosis of Bone Invasion in Small Squamous Cell Carcinomas of the Oral Cavity
- 2012 Poster Presentation (1st Place Head and Neck Poster Award) – John W. Frederick
Triological Society Combined Sections Meeting
Anti-CD147 inhibits proliferation by down regulation of EGFR in cutaneous SCC
- 2012 Travel Award – Lauren Beck
World Molecular Imaging Congress 2012
Identification of optimal therapeutic antibody for fluorescent imaging of cutaneous SCC
- 2012 Poster Presentation (1st Place Head and Neck Poster Award) – Nicholas Deep
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
- 2013 1st Place Lester A. Brown, M.D. Award – Larissa Sweeny, M.D.
UAB Division of Otolaryngology – Head and Neck Surgery
The Conjugation of a Antibody with a Small Drug Molecule Significantly Inhibits HNSCC
- 2016 Poster Presentation
(1st Place Poster Award in the Head and Neck Category) – Lindsay S. Moore, MD
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
- 2016 2016 UAB Post Doc Career Enhancement Award – Linday S. Moore, MD
- 2016 AOA Student Research Award – Andrew Prince, MD
Dose and Time Ranging of Anti-Angiogenic Agents for Enhanced Antibody-based Therapy in an Animal Model of Head and Neck Cancer.
- 2017 Poster Presentation (Stanford Medicine Alumni Association Award) – Sarah E. Miller
34th Annual Medical Student Research Symposium
Phase I Clinical Trial for Intraoperative Imaging of Glioma Patients.
- 2017 World Molecular Imaging Congress 2017 Student Travel Stipend - Nutte Teraphongphom, PhD
Study on dose escalation of Panitumumab-IRDye800 as an optical agent to enable image guided surgery in patients with head and neck cancer
- 2017 Stanford Molecular Imaging Scholars (SMIS) Program Fellowship (T32) – Guolan Lu, PhD
Stanford University, 2018-2021
- 2017 Student Travel Award – Guolan Lu, PhD
World Molecular Imaging Congress (WMIC)

Molecular Imaging to Assess the Drug Delivery in Pancreatic Cancers, Oral presentation.

- 2018 Alavi-Mandell Award- Lindsay S. Moore, MD
Publication entitled, "Characterizing the utilities and limitations of repurposing an open-field optical imaging device for fluorescence-guided surgery in head and neck cancer patients".
- 2018 Best Clinical Poster – Nynke van den Berg, PhD
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.
- 2018 Poster Presentation–Best Poster prize – Nynke van den Berg, PhD
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.
- 2018 Industry Selected Poster Award – Guolan Lu, PhD
World Molecular Imaging Congress (WMIC)
Quantifying Antibody Distribution in a First-In-Human Clinical Trial of Head and Neck Cancers.
- 2019 Best Oral Presentation, Young Investigator Award– Stan van Keulen, MD
Head and Neck Cancer, Amsterdam, The Netherlands
Clinical Application of Fluorescence Guided Surgery in Head and Neck Cancer.
- 2019 Young Investigator Award Semi-Finalist Nomination – Guolan Lu, PhD
World Molecular Imaging
Image-Guided Surgery Using Panitumumab-IRDye800CW for Pancreatic Cancer
- 2020 Alavi-Mandell Award – Stan van Keulen
Society of Nuclear Medicine and Molecular Imaging
The Clinical Application of Fluorescence-Guided Surgery in Head and Neck Cancer
- 2020 Under 40 Session: Excellent Presentation Award – Naoki Nishio, MD, PhD
The 44th Annual Meeting of Japan Society for Head and Neck Cancer
Sentinel margins in fluorescence-guided surgery for head and neck cancer
- 2020 Association of Military Surgeons of the United States Individual Professional Physician Award – Maj. Steven S. Hong, M.D.
2020 Virtual AMSUS Annual Meeting
- 2021 2021 Robert Guerin Research Prize – Giri Krishnan, MD
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

PROFESSIONAL SOCIETIES:

- 1994 – Present American Academy of Otolaryngology
2001 – Present American Head and Neck Society
2003 – Present Fellow American College of Surgeons
2006 – Present Triological Society

2010 – Present World Molecular Imaging Society
2010 – Present Society of University Surgeons
2016 – Present CORLAS (Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum)

Grant Application Review Committees

2010-2016 NIH/CSR Developmental Therapeutics (DT) Study Section Member
2019 American Cancer Society (ACS) Grant Review Panel
2019 NIH/NIBIB Special emphasis panel (ZRG1 SBIB-L 550)

Leadership Roles on Councils and Committees:

2010 – 2013 American Head and Neck Society Prevention and Early Detection Committee
2010 – Present Member of the National Institutes of Health, Developmental Therapeutics Study Section, Center for Scientific Review
2011 – 2016 Chair, Program Advisory Committee, American Academy of Otolaryngology
2012 – 2015 Chair, Head and Neck Reconstructive Committee, American Head and Neck Society
2012 American Head and Neck Society International Meeting, Poster Chair
2016 American Head and Neck Society International Meeting, Proffered Paper Chair
2020 American Head and Neck Society International Meeting, Program Chair

EDITORIAL BOARD MEMBERSHIPS:

2007 - Present **Associate Editor**, Head & Neck
2007 - Present **Editorial Board Member**, The Laryngoscope
2015 - Present **Editorial Board Member**, World Journal of Clinical Oncology
2015 - Present **Editorial Board Member**, Laryngoscope Investigative Otolaryngology

Reviewer for Nature Communications, Nature Biomedical Engineering, Cancer Research, Clinical Cancer Research, Cancer, Laryngoscope, BMC Cancer, Head & Neck, Molecular Imaging and Biology, Molecular Carcinogenesis, Archives of Otolaryngology, Clinical Cancer Research, Otolaryngology – Head and Neck Surgery, Experimental Cell Research, The American Journal of Surgery, International Journal of Cancer and Molecular Cancer Research.

UNIVERSITY ACTIVITIES:

University of Alabama at Birmingham (UAB)

2003 - 2012 Associate Program Director
UAB Division of Otolaryngology-Head and Neck Surgery
2003 - 2015 UAB Divisional Institutional Review Board Reviewer
2004 - 2015 Chair, Research Committee
UAB Division of Otolaryngology-Head and Neck Surgery
2004 - 2015 Reviewer for UAB Comprehensive Cancer Center Internal Grant Submissions
2007 - 2010 Chair, UAB Robotic Surgery Committee
2007 - 2015 Director, Surgical Anatomy UAB School of Medicine
2008 - 2015 UAB Health Services Perioperative Services Management Group
2009 - 2015 Director, UAB Department of Surgery Institutional Review Board Reviewer
2010 - 2015 UAB School of Medicine Clinical Advisory Group
2011 - 2015 Chair, UAB Operating Room Management Committee
2011 - 2015 Director, UAB Department of Surgery Research Office

Stanford University

2015 – 2021 SOM/SHC Council of Clinical Chairs
2015 – 2021 SOM Executive Committee
2015 – 2021 Chair, Medical Directors Cabinet Cancer Center
2015 – 2021 SOM, Stanford Cancer Institute, Leadership Committee
2015 – 2021 Co-Chair, Cancer Center Faculty Meeting
2018 – 2021 SHC Access Committee
2018 – 2021 SOM Integrated Space Committee

Vanderbilt University

2021 – present Chair, Department of Otolaryngology–Head and Neck Surgery

PAST GRANT SUPPORT:

2007 - 2013 *Erlotinib in Patients with Non-Curable Squamous Cell Carcinoma of the Head and Neck*
Investigator initiated, industry sponsored clinical trial (Rosenthal, PI)
Genmab

2006 - 2009 In Vivo Assessment of Immunofluorescent Guided Surgery
Research Scholar Award RSG-06-106-01-CCE (Rosenthal, PI)
American Cancer Society

2007 - 2013 *A Phase II Clinical Trial of Erlotinib and Radiotherapy in Patients with Stage III Cutaneous Squamous Cell Carcinomas*
Investigator initiated, industry sponsored clinical trial (Rosenthal, PI)
Genetech, Inc.

2009 - 2012 *Fluorescently Labeled Anti-EGFR Antibody to Guide Removal of Lymph Nodes*
R21 Grant (Rosenthal, PI)
NIH/NIDCR, (2 years, direct costs \$275,000)

2009 - 2012 Supplement: *Tumor-Stromal Interactions in HNSCC*
K08 Training Award (Rosenthal, PI)
NCI/NIH (2 years, direct costs \$81,820)

2011 - 2013 *A Randomized Controlled Trial of Pioglitazone For Oral Premalignant Lesions An Interconsortium Collaborative Study*
University of Wisconsin in Madison
Principal Investigator (2 years, \$48,367)

2010 - 2015 *CD147 as a Novel Target in Head and Neck Cancer*
R01 CA142637-01 (Rosenthal, PI)
NIH/NCI (5 years, direct costs \$933,750)

2011 - 2016 *A Phase I, Open-label Study Evaluating the Safety of Escalating Doses of 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)

2013 - 2015 *Optical Imaging of Primary and Regional Melanoma to Guide Surgical Resection*
R21 CA179171 (Rosenthal)
NIH/NCI

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- Principal Investigator (2 years, direct costs \$275,000)
- 2013 - 2015 *Image Guided Surgery using Fluorescently Labeled Cetuximab*
R21 CA182953 (Rosenthal, PI)
NIH/NCI
Principal Investigator (2 years, direct costs \$500,000)
- 2013 - 2016 *Phase I, Open-Label Study Evaluating the Safety and Pharmacokinetics of Escalating Doses of Cetuximab-IRDye800 as an Imaging agent to Detect Cancer*
Novadaq Technologies, Inc. (3 years, direct costs \$50,000)
- 2010 - 2018 *Intra-operative Optical Imaging to Guide Surgical Resection of Cancer*
NExT 217260 (Rosenthal, PI)
- 2016 – 2017 *Upconverting Nanoparticles as Contrast aged for Image-Guided Surgery*
NCI CCNE-TD U54 (Rosenthal, PI)
NIH/NCI
- 2016 - 2018 *Upconverting Nanoparticles as Contrast aged for Image-Guided Surgery*
Standard Proposal #4373 (Rosenthal, PI)
Molecular Foundry, Livermore Laboratories

ACTIVE GRANT SUPPORT:

- 2015 - 2020 *Prototype device for image guided surgery with panitumumab-IRDye800*
1R01CA190306-01A1 (Rosenthal, PI)
NIH/NCI
- 2018 – 2021 *Phase I - II Study of Ad/PNP (IND14271) for HNSCC (OrphanDrugDes,14-4438)*
R01FD005746 (Rosenthal, MPI)
NIH/FDA
- 2019 – 2021 *A millimeter resolution clinical PET system dedicated to head and neck cancer imaging*
Coulter Endowment Program-University Research
Co-Investigator
- 2019 – 2024 *Optical Imaging to Improve Surgery & Targeted Therapy in Brain Tumors*
1R01CA239257 (Rosenthal, Contact MPI)
NIH/NCI

PENDING GRANT SUPPORT:

- 2020 – 2022 *Next Generation Sentinel Node Mapping*
1R01CA238686-01 (Rosenthal, Contact MPI)
NIH/NCI – Received fundable score (7%, funding pending FY20 budget)
- 2020 – 2025 *Real-time Identification of the Sentinel Margin in Head and Neck Cancer*
1R01DE029598-01 (Rosenthal, Contact MPI)
NIH/NIDCR – Pending review

ACTIVE CLINICAL TRIALS

NCT number:02415881 August 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

NCT number: 03384238 February 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

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

NCT number: 03582124 July 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

NCT number: 03733210 January 2019 - present
Title: Pilot Study Evaluating Panitumumab IRDye800 and 89Zr Panitumumab for Dual Modality Imaging for Nodal Staging in Head and Neck Cancer
Study Drug: Panitumumab-IRDye800, 89Zr-Paniumumab
Tumor type: Head and Neck: SCC
PI: Eben Rosenthal
IND/Holder: Zr: 135573, Pan800: 119747/ Eben Rosenthal

NCT number: 03405142 August 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

NATIONAL AND INTERNATIONAL LECTURES (Since 2010):

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- 2010 Visiting Professor, “Directions in Therapy for Head and Neck Cancer at UAB.” Vanderbilt University Medical Center, Nashville, TN.
- 2010 Visiting Professor, “Optical Imaging to Detect Cancer for Surgical Resections.” University of Mississippi Medical Center, Jackson, MS.
- 2010 Visiting Professor, “Head and Neck Reconstruction with Free Flaps.” University of Mississippi Medical Center, Jackson, MS.
- 2010 Visiting Professor, “Adventures in Head and Neck Reconstruction.” LSU Health Sciences Center, New Orleans, LA.
- 2010 Visiting Professor, “Head and Neck Cancer Update.” Fort Walton Beach Medical Center, FL.
- 2012 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 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 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.
- 2013 Invited Speaker, “Contemporary Management of Oropharynx?” COSM, April 6-10, 2013. Orlando, FL.
- 2013 Invited Speaker, “Oropharynx Reconstruction - Why bother?” Annual Meeting American Academy of Otolaryngology – HNS COSM, April 6-10, 2013. Orlando, FL.
- 2013 Moderator, “Laryngology/Broncho-Esophagology, Facial Plastic & Reconstructive Surgery; Head & Neck Surgery.” 2013 AAO-HNSF Annual Meeting and Oto Expo, September 30, 2013. Vancouver, Canada.
- 2013 Miniseminar, “Surgical Management of the Patient with Facial Paralysis.” 2013 AAO-HNSF Annual Meeting and Oto Expo, September 30, 2013. Vancouver, Canada.
- 2013 Miniseminar, “Grant Writing Pearls and Pitfalls: Maximizing Your Funding.” 2013 AAO-HNSF Annual Meeting and Oto Expo, October 1, 2013. Vancouver, Canada.
- 2014 Invited Speaker, “Microvascular Reconstruction Update.” Multidisciplinary Head & Neck Cancer Symposium, February 21, 2014. Scottsdale, AZ.
- 2014 Visiting Professor, “Fluorescent Immunoguided Neoplasm Detection (FIND).” University of Pittsburgh Cancer Institute Basic Research Seminar, March 11, 2014. Pittsburgh, PA.
- 2014 Grand Rounds Speaker, “Methods to Improve Outcomes in Reconstruction.” University of Pittsburgh, Otolaryngology Grand Rounds Presentation, March 2014, Pittsburgh, PA.
- 2014 Panelist and Speaker, “Imaging as a Prognostic Tool.” IFHNOS 5th World Congress and AHNS Annual Meeting, July 27, 2014. New York, NY.

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- 2014 Miniseminar, “The Pearls and Pitfalls of Grant Writing: Maximizing Your Funding.” 2014 AAO-HNSF Annual Meeting and Oto Expo, September 21, 2014. Orlando, FL.
- 2014 Miniseminar, “Surgical Management of the Patient with Facial Paralysis.” 2014 AAO-HNSF Annual Meeting and Oto Expo, September 22, 2014. Orlando, FL.
- 2014 Miniseminar, “Surgery with Optical Imaging: Fluorescence Guided and Molecular Navigation.” 2014 AAO-HNSF Annual Meeting and Oto Expo, September 23, 2014. Orlando, FL.
- 2014 Panelist and Speaker, “Antibody Based Imaging.” ACS Clinical Congress, October 27, 2014. San Francisco, CA.
- 2015 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, February 12, 2015. San Diego, CA.
- 2015 Invited Speaker, “Optical imaging for surgical navigation.” Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, March 6, 2015. Weston, FL.
- 2015 Panelist and Speaker, “Oropharynx.” Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, March 6, 2015. Weston, FL.
- 2015 Panelist and Speaker, “Oral cavity and skin cases.” Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, March 6, 2015. Weston, FL.
- 2015 Invited Speaker, “Laryngopharyngectomy, reconstruction, and postop care.” Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, March 7, 2015. Weston, FL.
- 2015 Panelist and Speaker, “Thyroid/Salivary gland cancer cases.” Cleveland Clinic Multidisciplinary Head and Neck Cancer Update, March 7, 2015. Weston, FL.
- 2015 Invited Speaker, “Safety and Tumor-specificity of Cetuximab-IRDye800 for Surgical Navigation in Head and Neck Cancer.” CORLAS Annual Meeting, August 26, 2015. San Francisco, CA.
- 2015 Moderator, “OSN – IND Successes and Pitfalls.” World Molecular Imaging Conference, September 2, 2015. Honolulu, HI.
- 2015 Moderator, “OSN Panel: Devices for Surgical Imaging – What is Needed?” World Molecular Imaging Conference, September 2, 2015. Honolulu, HI.
- 2015 Panelist, “Surgical Management of the Patient with Facial Paralysis.” 2015 AAO-HNSF Annual Meeting and Oto Expo, September 28, 2015. Dallas, TX.
- 2015 Grand Rounds Speaker, “Optical Imaging in the Operating Room: Present and Future.” Stanford University Department of Radiology Grand Rounds Presentation, October 2015. Stanford, CA.
- 2016 Grand Rounds Speaker, “Fluorescence Guided Oncologic Surgery”. UCSF Department of Otolaryngology Grand Rounds Presentation, January 20, 2016. San Francisco, CA.
- 2016 Invited Speaker, “Optical Imaging to Detection During Surgery: Early Phase Clinical Trial Data”. SPIE Translational Biophotonics 2016, May 16, 2016. Houston, TX.

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- 2016 Invited Speaker, “Optical Imaging for Surgical Navigation”. 2016 Midwest Preclinical Imaging Consortium, May 17, 2016. Madison, WI.
- 2016 Invited Speaker, “Next Generation Imaging”. Fluorescence-Theranostics Symposium, June 15, 2016. Groningen, Netherlands.
- 2016 Invited Speaker, “Surgical Management Using Fluorescence-Guided Surgery”. ASIGS Surgical Navigation Update 2016, June 26, 2016. Stanford, CA.
- 2016 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, June 29, 2016. Philadelphia, PA.
- 2016 Invited Speaker, “Management of Head & Neck Cancer”. Good Samaritan Regional Medical Center CME Presentation, August 24, 2016. Corvallis, OR.
- 2016 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, August 20, 2016. Bordeaux, France.
- 2016 Invited Speaker, “New Developments in Optical Imaging for Head and Neck Cancer”. Nineteenth Annual West Hawaii Cancer Symposium, September 10, 2016. Hualalai, HI.
- 2016 Invited Speaker, “Intraoperative Imaging”. Intraoperative Imaging Technologies for Cancer Detection and Treatment, MSKCC October, New York, NY.
- 2016 Invited Speaker, “Surgical Imaging in Cancer”. Cancer Targets & Nanomedicine Seminar Series, November 20, 2016. Dallas, TX.
- 2016 Invited Speaker, “Imaging in Head & Neck Cancer”. Illuminating Developments in Head and Neck Imaging, December 9, 2016. Boston, MA.
- 2017 Grand Rounds Speaker, “Recon Case Series”. Stanford University Department of Otolaryngology – Head and Neck Surgery Grand Rounds Presentation, January 19, 2017. Stanford, CA.
- 2017 Moderator and Speaker, “Perfusion Imaging: Applications”. Optical and Molecular Imaging Strategies in Surgery Meeting, February 10, 2017. Las Vegas, NV.
- 2017 Invited Speaker, “Imaging Primary Tumors During Resection”. Optical and Molecular Imaging Strategies in Surgery Meeting, February 10, 2017. Las Vegas, NV.
- 2017 Invited Speaker, “Osteocutaneous Flap Reconstruction in the Head and Neck”. Annual Meeting of the Israeli Society of Otolaryngology Head and Neck Surgery, March 1, 2017. Eilat, Israel.
- 2017 Invited Keynote Speaker, “Management of Complex Wounds in the Head and Neck”. Annual Meeting of the Israeli Society of Otolaryngology Head and Neck Surgery, March 2, 2017. Eilat, Israel.

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- 2017 Invited Speaker, “Management of Complex Wounds in the Head and Neck”. Annual Meeting of the Israeli Society of Otolaryngology Head and Neck Surgery, March 2, 2017. Eilat, Israel.
- 2017 Invited Keynote Speaker, “Management of the Larynx in the Area of Chemoradiation”. Annual Meeting, Israeli Society of Otolaryngology Head and Neck Surgery, March 2, 2017. Eilat, Israel.
- 2017 Invited Keynote Speaker, “Head and Neck Cancer Patient Follow-up”. Annual Meeting of the Israeli Society of Otolaryngology Head and Neck Surgery, March 3, 2017. Eilat, Israel.
- 2017 Invited Speaker, “Follow-up of Head and Neck Cancer Patients: Evidence and Value”. ASOHNS Annual Society Meeting 2017, March 23, 2017. Adelaide, Australia.
- 2017 Invited Speaker, “Optical Imaging to Detect Cancer in Real Time During Surgery”. ASOHNS Annual Society Meeting 2017, March 24, 2017. Adelaide, Australia.
- 2017 Panelist, “Head and Neck Case Discussion Panel”. ASOHNS Annual Society Meeting 2017, March 24, 2017. Adelaide, Australia.
- 2017 Invited Speaker, “Precision Surgery: Lighting Up Cancer”. UC San Diego Moores Cancer Center, April 25, 2017. San Diego, CA.
- 2017 Invited Speaker “Open-field intraoperative molecular imaging” MSK 2nd Annual Intraoperative Imaging Technologies for Cancer Detection and Treatment, December New York, NY
- 2018 Invited Speaker, “Light up my tumor: Giving surgeons hope”. 2018 AACR-SNMMI Joint Conference on State-of-the-Art Molecular Imaging in Cancer Biology and Therapy, February 15, 2018. San Diego, CA.
- 2018 Panelist, “Surgical Trials”. Academy Colloquium Precision surgery by tumor targeted molecular imaging. April 17, 2018. Amsterdam, Netherlands.
- 2018 Invited Speaker, “The role of surgical leaders in supporting female surgeons”. AHNS Combined Otolaryngology Spring Meeting, April 19, 2018. National Harbor, Maryland.
- 2018 Keynote Speaker, “Optical Imaging for Head and Neck Cancer Surgery”. University of Kentucky, 4th Annual Bluegrass Research Conference. May 2018. Lexington, Kentucky.
- 2018 Invited Speaker, “Surgical Imaging”. 89th annual meeting of the German Society for Otorhinolaryngology, Head and Neck Surgery. May 2018. Lübeck, Germany.
- 2018 Invited Speaker and Panelist “Efficacy of endpoints based on context of use’ at the Translational Pathways for Optical Drugs and Devices for Cancer Imaging, hosted by the U.S. Food and Drug Administration (FDA). Sept 2018.
- 2018 Invited Speaker “Anti-body based intraoperative molecular imaging” PENN Precision surgery, University of Pennsylvania, Philadelphia. PA.
- 2018 Invited Speaker “Open-field intraoperative molecular imaging” MSK 3rd Annual Intraoperative Imaging Technologies for Cancer Detection and Treatment, Memorial Sloan Kettering, New York, NY
- 2018 Visiting Professor “Light up my tumor” Case Western Reserve University. Cleveland, Ohio.

- 2019 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 Invited Speaker, “Using intraoperative imaging to improve surgical margins” University of Pennsylvania Veterinarian School. Philadelphia, PA
- 2019 Keynote Speaker, “Advances in surgical imaging” Asian Society of Head and Neck Oncology, Seoul, Korea.
- 2019 Invited Speaker, “Free Vascularized Nerve Grafting for Immediate Facial Nerve Reconstruction” Asian Society of Head and Neck Oncology, Seoul, Korea
- 2019 Invited Speaker, “Lessons learned in surgery and research” John Pointer Inaugural Lectureship, University of Alabama at Birmingham, Birmingham, AL
- 2019 Invited Speaker, “Molecular guided surgery advances” Advances in Optics for Biotechnology, Medicine, and Survey XVI, Engineering Conferences International. Mont Tremblent, Quebec, Canada.
- 2019 Invited Speaker, “Novel approaches to an old problem: Re-thinking oral cavity cancer” AHNS Annual Meeting, Austin, Texas.
- 2019 Invited Speaker, “Clinical application of surgical imaging” World Congress of the International Academy of Oral Oncology. Rome, Italy.
- 2020 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
- 2021 Invited Speaker, “Disruptive Technologies that could change the way things are done.” BACO International 2020. Virtual Meeting.

RECENT MANUSCRIPTS PRINTED IN SCIENTIFIC JOURNALS:

Listing below since 2011, total peer reviewed publications 224, h-index 48

1. Liu, Z, Hartman, YE, Warram JM, Knowles JA, Sweeny, L, Zhou T, **Rosenthal EL**. Fibroblast growth factor receptor mediates fibroblast-dependent growth in emmprin-depleted head and neck cancer tumor cells. *Mol Cancer Res*. 2011 July 26. PMID: 21665938.
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3. Andrades P, Militsakh O, Hanasono MM, Rieger J, **Rosenthal EL**. Current strategies in reconstruction of maxillectomy defects. *Arch Otolaryngol Head Neck Surg*. 2011 Aug. PMID: 2184415.
4. Kim H, Zhai G, Liu Z, Samuel S, Shah N, Helman EE, Knowles JA, Stockard CR, Fineberg NS, Grizzle WE, Zhou T, Zinn KR, **Rosenthal EL**. Extracellular matrix metalloproteinase as a novel target for pancreatic cancer therapy. *Anticancer Drugs*. 2011 Oct; 22(9):864-74. PMID: 21730821.

5. Knowles JA, Golden B, Yan L, Carroll WR, Helman EE, **Rosenthal EL**. Disruption of the AKT pathway inhibits metastasis in an orthotopic model of head and neck squamous cell carcinoma. *Laryngoscope*. 2011 Nov (121): p. 2359-2365. PMID: 22020886.
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7. Sinclair CF, McColloch NL, Carroll WR, **Rosenthal EL**, Desmond RA, Magnuson JS. Patient-perceived and objective functional outcomes following transoral robotic surgery for early oropharyngeal carcinoma. *Arch Otolaryngol Head Neck Surg*. 2011 Nov; 137(11): p. 1112-6. PMID: 22106235.
8. Miller MW, Dean NR, Cannady SB, **Rosenthal EL**, Wax MK. Free Tissue Transfer for Head and Neck Reconstruction in Solid Organ Transplant Patients. *Head Neck*. 2012 Aug;34(8):1143-6. PMID: 22076843.
9. Sun Q, Prasad R, **Rosenthal EL**, Katiyar SK. Grape seed proanthocyanidins inhibit the invasive potential of head and neck cutaneous squamous cell carcinoma cells by targeting EGFR expression and epithelial-to-mesenchymal transition. *BMC Complementary and Alternative Medicine*. 2011 Dec 21;11:134. PMID: 22188922.
10. Barañano CF, **Rosenthal EL**, Morgan BA, McColloch NL, Magnuson JS. Dynasplint for the management of trismus after treatment of upper aerodigestive tract cancer: a retrospective study. *Ear Nose Throat J*. 2011 Dec; 90(12): p. 584-590. PMID: 22180114.
11. Sun Q, Prasad R, **Rosenthal EL**, Katiyar SK. Grape seed proanthocyanidins inhibit the invasiveness of human HNSCC cells by targeting EGFR and reversing the epithelial-to-mesenchymal transition. *PLoS One*. 2012 Jan 27; 7(1):e31093. PMID: 22299051.
12. Schneider DS, McClain L, Robb PK Jr, **Rosenthal EL**, Wax MK. Use of internal mammary vessels in head and neck microvascular reconstruction. *Arch Otolaryngol Head Neck Surg*. 2012 Feb; 138(2): p. 172-176. PMID: 22351864.
13. Sweeny L, Golden B, White HN, Magnuson JS, Carroll WR, **Rosenthal EL**. Incidence and outcomes of stricture formation postlaryngectomy. *Otolaryngology-Head and Neck Surgery*. 2012 March; 146(3): p. 395-402. PMID: 22166968.
14. Sweeny L, Liu Z, Lancaster W, Hart J, Hartman YE, **Rosenthal EL**. Inhibition of fibroblasts reduced head and neck cancer growth by targeting fibroblast growth factor receptor. *Laryngoscope*. 2012 March. PMID: 22460537.
15. Dean NR, Wax MK, Virgin FW, Magnuson JS, Carroll WR, **Rosenthal EL**. Free flap reconstruction of lateral mandibular defects: indications and outcomes. *Otolaryngology Head and Neck Surgery*. 2012 April; 146(4): p. 547-552. PMID: 22166963.
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17. Sinclair CF, Gleysteen JP, Zimmermann TM, Wax MK, Givi B, Schneider D, **Rosenthal EL**. Assessment of donor site morbidity for free radial forearm osteocutaneous flaps. *Microsurgery*. 2012 May;32(4):255-60. PMID: 22473601.

18. Sweeny L., Eby BT, Magnuson JS, Carroll WR, **Rosenthal EL**. Reconstruction of scalp defects with the radial forearm free flap. *Head and Neck Oncology*. 2012 May 14;4:41. PMID: 22583845.
19. Sweeny L, Dean NR, Frederick JW, Scott Magnuson J, Carroll WR, Desmond RA, **Rosenthal EL**. CD 147 expression in advanced cutaneous squamous cell carcinoma. *Journal of Cutaneous Pathology*. 2012 Jun;39(6):603-9. PMID: 22575025.
20. Sweeny L, Liu Z, Bush B, Hartman Y, Zhou T, **Rosenthal EL**. CD147 and AGR2 expression promote cellular proliferation and metastasis of head and neck squamous cell carcinoma. *Experimental Cell Research*. 2012 Aug15;318(14):1788-98. PMID 22659167.
21. Kejner AE, Castellanos PF, **Rosenthal EL**, Hawn MT. All-cause mortality after tracheostomy at a tertiary care hospital over a 10-month period. *Otolaryngology Head Neck Surgery*. 2012 June; 146(6): p. 918-922. PMID: 22344290.
22. Heath CH, Sorace A, Knowles J, **Rosenthal EL**, Hoyt K. Microbubble therapy enhances anti-tumor properties of cisplatin and cetuximab in vitro and in vivo. *Otolaryngology Head Neck Surgery*. 2012 June; 146(6): p. 938-945. PMID: 22323435.
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26. White HN, Golden B, Sweeny L, Carroll WR, Magnuson JS, **Rosenthal EL**. Assessment and incidence of salivary leak following laryngectomy. *Laryngoscope*. 2012 Aug; 122(8): p. 1796-1799. PMID: 22648757.
27. Brickman DS, Reh DD, Schneider DS, Bush B, **Rosenthal EL**, Wax MK. Airway management after maxillectomy with free flap reconstruction. *Head Neck*. 2012 Aug 21. PMID 22907774.
28. Heath CH, Deep NL, Nabell L, Carroll WR, Desmond R, Clemons L, Spencer S, Magnuson JS, **Rosenthal EL**. Phase 1 Study of Erlotinib Plus Radiation Therapy in Patients with Advanced Cutaneous Squamous Cell Carcinoma. *International Journal of Radiation Oncology Biology Physics*. 2012 Nov 22. PMID: 23182701.
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