

## Eben Lloyd Rosenthal Curriculum Vitae

July 2021

### PERSONAL INFORMATION (planned transition to Vanderbilt in October, 2021):

	Present	Beginning October 1, 2021
Name:	Eben Lloyd Rosenthal, M.D.	
Citizenship:	USA	
Home Address:	344 Leland Ave. Palo Alto, CA 94306	
Home Phone:	(205) 612-8888	
Rank/Title:	Doerr Medical Director Associate Director of Clinical Care Stanford Cancer Center Professor of Otolaryngology, Stanford University School of Medicine	Professor and Chair Department of Otolaryngology Vanderbilt University Medical Center
Office Address:	Stanford Cancer Center 875 Blake Wilbur Drive, C-2213 Stanford, CA 94305	VUMC - Department of OHNS 1215 21 <sup>st</sup> Avenue South, Suite 6310 Nashville, TN 37232
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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 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>

**ACADEMIC APPOINTMENTS:**

July 2016 - Present	Professor of Radiology ( <i>courtesy</i> )	Department of Radiology <i>Stanford University School of Medicine</i>
July 2015 - Present	Ann and John Doerr Medical Director	Stanford Cancer Center <i>Stanford Health Care</i>
July 2015 – Present	Associate Director of Clinical Care	Stanford Cancer Institute <i>Stanford University School of Medicine</i>
July 2015 - Present	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:**

2015- Present	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.

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### **Awards/Honors**

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|----------------|---|
| 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**

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

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**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 (1<sup>st</sup> Place Head and Neck Poster Award) – Nicholas Deep  
8<sup>th</sup> Annual International Conference on Head and Neck Cancer  
*Phase II Study of Erlotinib Plus Radiation Therapy in Patients with Advance Cutaneous Squamous Cell Carcinoma*

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- 2013 1<sup>st</sup> 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 – Lindsay 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  
34<sup>th</sup> 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 44<sup>th</sup> 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

**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

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

**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)

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- 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  
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



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- 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

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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-Panimumumab  
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):**

- 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, "Compemporary Management of Oropharynx?" COSM, April 6-10, 2013. Orlando, FL.
- 2013 Invited Speaker, "Orophaynx 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;

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- 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.
- 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.
- 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

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- 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.
- 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.

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- 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

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- growth factor receptor mediates fibroblast-dependent growth in emmprin-depleted head and neck cancer tumor cells. *Mol Cancer Res*. 2011 July 26. PMID: 21665938.
2. Sweeny L, Dean NR, Magnuson JS, Carroll WR, Clemons L, **Rosenthal EL**. Assessment of tissue autofluorescence and reflectance for oral cavity cancer screening. *Otolaryngol Head Neck Surg*. 2011 Jul 29. PMID: 21804026.
  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.
  6. Sinclair CF, Carroll WR, Desmond RA, **Rosenthal EL**. Functional and survival outcomes in patients undergoing total glossectomy compared with total laryngoglossectomy. *Otolaryngology Head Neck Surgery*. 2011 Nov; 145(5): p. 755-758. PMID: 21670476.
  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.
16. Magnuson JS, Durst J., **Rosenthal EL**, Carroll WR, Ritchie CS, Kilgore ML, Locher JL. Increased likelihood of long-term gastrostomy tube dependence in head and neck cancer survivors without partners. *Head and Neck*. 2013 Mar;35(3):420-5. PMID: 22505332.
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.
23. Deep N, Heath C, **Rosenthal EL**, Sweeny L, Zinn K. Use of Pantitumumab – IRDye800 to Image Microscopic Head and Neck Cancer in an Orthotopic Surgical Model. *Annals of Surgical Oncology*. 2012 June. PMID: 22669455.
24. Sweeny L, Zimmermann TM, Liu Z, **Rosenthal EL**. Evaluation of tyrosine receptor kinases in the interaction of head and neck squamous cell carcinoma cells and fibroblasts. *Oral Oncol*. 2012 July. PMID: 22795534.
25. Knowles JA, Heath CH, Saini R, Umphrey H, Warram J, Hoyt K, **Rosenthal EL**. Molecular targeting of ultrasonographic contrast agent for detection of head and neck squamous cell carcinoma. *Arch Otolaryngol Head Neck Surg*. 2012 Jul; 138(7): p. 662-668. PMID: 22801891.
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.



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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.
  29. Brandwein-Gensler M, Negassa A, Li Y, Bai S, Carroll WR, Dayan D, Dort JC, Heller K, Jour G, Lau H, Penner C, Prystowsky M, **Rosenthal EL**, Schlecht NF, Smith RV, Urken M, Veref M, Wang B, Wenig B. Validation of the Risk Model: High-Risk Classification and Tumor Pattern of Invasion Predict Outcome for Patients with Low-Stage Oral Cavity Squamous Cell Carcinoma. *Head and Neck Pathology*. 2012 Dec 19. PMID: 23250819.
  30. Frederick JW, Sweeny L, Carroll WR, **Rosenthal EL**. Microvascular Anastomotic Coupler Assessment in Head and Neck Reconstruction. *Otolaryngol Head Neck Surg*. 2013 Jul;149(1):67-70. PMID: 23585150.
  31. Day KE, Beck LN, Heath CH, Huang CC, Zinn KR, **Rosenthal EL**. Identification of the optimal therapeutic antibody for fluorescent imaging of cutaneous squamous cell carcinoma. *Cancer Biol Ther*. 2013 Mar;14(3):271-7. PMID: 23298904.
  32. Asher SA, White HN, Kejner AE, **Rosenthal EL**, Carroll WR, Magnuson JS. Hemorrhage after Transoral Robotic-Assisted Surgery. *Otolaryngol Head Neck Surg*. 2013 Apr Jul;149(1):112-7. PMID: 23585156.
  33. Day KE, Beck LN, Deep NL, Kovar J, Zinn KR, **Rosenthal EL**. Fluorescently labeled therapeutic antibodies for detection of microscopic melanoma. *Laryngoscope*. 2013 Apr 24. PMID: 23616260.
  34. Frederick JW, Sweeny L, Carroll WR, Peters GE, **Rosenthal EL**. Outcomes in head and neck reconstruction by surgical site and donor site. *Laryngoscope*. 2013 May 17. PMID: 23686870.
  35. Day KE, Sweeny L, Kulbersh B, Zinn KR, **Rosenthal EL**. Preclinical Comparison of Near-Infrared-Labeled Cetuximab and Panitumumab for Optical Imaging of Head and Neck Squamous Cell Carcinoma. *Mol Imaging Biol*. 2013 May 29. PMID: 23715932.
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43. Asher SA, White HN, Golden JB, Magnuson JS, Carroll WR, **Rosenthal EL**. Negative Pressure Wound Therapy in Head and Neck Surgery. *JAMA Facial Plast Surg*. 2014 Mar-Apr;16(2):120-6. PMID: 24357046.
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47. Bosmia AN, Zimmermann TM, Griessenauer CJ, Shane Tubbs R, **Rosenthal EL**. Nasal Myiasis in Hinduism and Contemporary Otorhinolaryngology. *J Relig Health*. 2014 Jan 3. PMID: 24385004.
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53. Chung TK, **Rosenthal EL**, Magnuson JS, Carroll WR. Transoral robotic surgery for oropharyngeal and tongue cancer in the United States. *Laryngoscope*. 2014 Aug 5. PMID: 25093603.
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