

'Visualizing Cancer: Surgical Navigation Fluorescent Contrast Agents'

Dr. Rosenthal has conducted bench to bedside development of optical contrast agents to identify cancer in the operating room. He led a multidisciplinary team of scientists through successful IND application to allow testing of fluorescently labeled antibodies in the clinic and operating room. These early phase clinical trials have demonstrated that this technique can visualize microscopic cancer in the operating room and may significantly improve clinical outcomes.

Eben Rosenthal grew up in Ann Arbor, Michigan and received degrees from Haverford College and the University of Michigan. He learned his surgical skills in otolaryngology from the University of Michigan and traveled west for further training in facial plastic and reconstructive surgery at the Oregon Health and Science University. He joined the faculty at University of Alabama at Birmingham where he started as an Assistant Professor of Surgery within the Division of Otolaryngology. In 2012, Dr. Rosenthal became Division Director of Otolaryngology – Head and Neck Surgery and the holder of the John S. Odess Endowed Chair at the University of Alabama at Birmingham. He moved to Stanford in 2015 to become the Ann and John Doerr Medical Director of the Stanford Cancer Center.

Dr. Rosenthal is certified by the American Board of Otolaryngology and is a Diplomat of the American Board of Facial Plastic and Reconstructive Surgery. He specializes in the treatment and reconstruction of head and neck cancer patients. He has a strong interest in development of new strategies to surgically repair complex head and neck defects to improve functional and cosmetic outcomes.

He has published over 160 peer-reviewed scientific manuscripts, authored many book chapters and published a book on optical imaging in cancer. He is on the editorial board of Head & Neck and The Laryngoscope and is also a charter member of the NIH Developmental Therapeutics Study Section. Dr. Rosenthal has performed preclinical and clinical research on the role of targeted therapies for use to treat cancer alone and in combination with conventional therapy. He has served as principal investigator on several early phase investigator-initiated and industry sponsored clinical trials in molecular oncology. He has received grant funding from the American Cancer Society, NIH/NCI and NIH/NIDCR to study the role of targeted therapy and novel imaging strategies in cancer.