# Biography

Languages: English, French, Arabic

**Appointments and Positions**

2019-Present Vice Chairman for Education

2016-Present Professor of Clinical Neurosurgery and Otolaryngology, University of Colorado

2014-2017 Associate Professor of Neurosurgery, University of Central Florida

2015-Present Program Director, Skull Base Surgery fellowship, University of Colorado

2014-Present Director of Skull Base Surgery, University of Colorado, Aurora, Colorado

2014-2016 Associate Professor of Neurosurgery and Otolaryngology, University of Colorado, Aurora, Colorado

2011-2014 Director of the Osman Microsurgery Lab, University of South Florida, Tampa, Florida

2010-2011 Director of Cerebrovascular at St. Joseph’s Hospital, Tampa, Florida

2008-2013 Assistant Professor of Neurosurgery, University of South Florida, Tampa, FL

2013-2014 Associate Professor of Neurosurgery, University of South Florida, Tampa, Florida

2002- 2014 Instructor of Microsurgical Anatomy, The Osman Microsurgical Laboratory, University of South Florida, Tampa, Florida

2001- 2002 Instructor of Microsurgical Anatomy, The Goodyear Microsurgical Laboratory, University of Cincinnati School of Medicine, Cincinnati, Ohio

2001-2005 Assistant Professor (Lecturer) of Neurosurgery, Faculty of Medicine Ain Shams University, Cairo, Egypt

1996-2001 Assistant lecturer of Neurosurgery, Faculty of Medicine, Ain Shams Univ.

1996 Demonstrator of Neurosurgery, Faculty of Medicine, Ain Shams University

**Leadership Positions:**

Vice Chair for Education: Department of Neurosurgery

University of Colorado, 2018-Present

Executive/Steering Committee Department of Neurosurgery

University of Colorado, 2018-Present

Department Finance Committee  
 University of Colorado, 2020-Present

ACGME Vice Chairs for Education Committee  
 University of Colorado, 2018-Present

Diversity, Equity and Inclusion Committee:   
 University of Colorado School of Medicine 2020-Present

Subspecialty advisor for Neurosurgery  
 University of Colorado School of Medicine 2022-Present

Congress of Neurological Surgeons (CNS), Education Committee, 2008-Present

Congress of Neurological Surgeons (CNS), SANS Committee, 2012-Present

World Federation of Neurosurgery, Skull Base Committee 2022-Present

# Education

## Resident in Neurosurgery, University of South Florida, Tampa, Florida, 7/2003 - 6/2007

## Chief Resident in Neurosurgery, University of South Florida, Tampa, Florida 7/2007- 6/2008

## Clinical Fellowship in Skull Base & Cerebrovascular Surgery, University of South Florida, Tampa, Florida 7/2002 - 6/2003

## Clinical Fellowship in Skull Base Surgery, University of Cincinnati and the Mayfield Clinic, Cincinnati, Ohio: 7/2001 - 6/2002

## Clinical Fellowship in Pediatric Neurosurgery, St Christopher’s Hospital for Children, Allegheny University, Philadelphia, Pennsylvania, 12/1996 – 6/1998

## Resident in Neurosurgery, Department of Neurosurgery, Ain Shams University Hospitals, Abbasseya, Cairo, Egypt, 4/1993 – 6/1996

## Intern Physician in Ain Shams University Hospitals, Abbasseya, Cairo, Egypt, 3/1992 – 2/1993

## Doctorate Degree (Ph.D.) of Neuroscience Ain Shams University, Faculty of Medicine, Department of Neurosurgery, Cairo, Egypt 11/2000

## Master Degree (M.Sc) of Surgery Ain Shams University, Faculty of Medicine, Department of General Surgery, Cairo, Egypt, 11/1995

MD (M.B.B. Ch) Ain Shams University, Faculty of Medicine, Abbasseya, Cairo, Egypt – 12/1991

**Certification & Licensure**

USMLE Step 1 – September 1994

Step 2 – April 2001

Step 3 – October 2001

ECFMG Certificate 489-969-6: October 1995

Pennsylvania Graduate Medical License MT-039956-T (1996-98)

Ohio Graduate Medical License 57- 00-4130 (2001-2)

Florida License ME92314 (2002-Present)

American Board of Neurological Surgery Certificate (32138) 11/9/2012

**Practical Courses:**

1. Introduction to Neurosurgery of The Brain and Spine for technical specialists in Neuroscience, The Goodyear Laboratory University of Cincinnati, Cincinnati, Ohio 8/2001
2. Skull Base Surgery- Anterolateral Skull Base Approaches, Course Faculty/Instructor Congress of Neurological Surgeons 51st Annual Meeting, San Diego, California: 9/2001
3. Trigeminal Neuralgia- Surgical Approaches, Course Faculty/Instructor

Congress of Neurological Surgeons 51st Meeting, San Diego, California: 9/2001

1. Skull Base Surgery- Anterolateral Skull Base Approaches, Course Faculty/Instructor American Association of Neurological Surgeons Meeting, Chicago, Illinois 4/2002
2. Introduction to Neurosurgery of The Brain and Spine for technical specialists in Neuroscience, The Goodyear Laboratory University of Cincinnati, Cincinnati, Ohio 3/2002
3. A One Day Comprehensive Course on Tumors and Functional Disorders of the Cranial Nerves of the Posterior Fossa, Course Faculty/Instructor Congress of Neurological Surgeons 52nd Meeting, Philadelphia, PA: 9/2002
4. The Masters Course in Skull Base: Course organizer, instructor and lecturer. A 3-day cadaveric dissection-training course in Skull Base Surgical Techniques. Presented in the Osman Microsurgery Laboratory, Department of Neurosurgery, University of South Florida, Tampa, Florida. An invitational course taught by Skull Base Teams to senior residents’ teams combining Neurosurgery and Otolaryngology.   
   a. 1st Annual Masters Course in Skull base Surgery 1/24-1/26/2003  
   b. 2nd Annual Masters Course in Skull base Surgery 1/29-2/1/2004  
   c. 3rd Annual Masters Course in Skull base Surgery 1/21-1/23/2005  
   d. 4th Annual Masters Course in Skull base Surgery 1/20-1/22/2006  
   e. 5th Annual Masters Course in Skull base Surgery 1/25-1/27/2007  
   f. 6th Annual Masters Course in Skull base Surgery 1/31-2/1/2008  
   g. 7thAnnual Masters Course in Skull base Surgery 2/12-2/14/2009  
   h. 8th Annual Masters Course in Skull base Surgery 1/14-1/16/2010  
   i. 9th Annual Masters Course in Skull base Surgery 2/3-2/5/2011  
   j. 10th Annual Masters Course in Skull base Surgery 2/9-2/11/2012

H. 11th Annual Masters Course in Skull Base Surgery 2/6-2/9/2013

1. The 10th Annual Masters Course in Skull Base Surgery. Presented in CAMLS Centers, Tampa, Florida. Course director. 2/8 – 2/11/2012.
2. The 10th Annual Masters Course in Skull Base Surgery. Presented in CAMLS Centers, Tampa, Florida. Course director. 2/6 – 2/9/2013.
3. Basic Skull Base Surgery: Applications for Tumors and Vascular Surgery: Course faculty.   
   A full day cadaveric course on skull base approaches to tumors and aneurysms. Congress of Neurological Surgeons Annual Meeting, Chicago, Illinois 10/7-8/12/2006
4. Microsurgery Simulation Summer Course for USF Neurosurgery Residents. Course Organizer and Instructor. An annual cadaveric dissection-training course in Skull Base Surgical Techniques. Presented in the Osman Microsurgery Laboratory, Department of Neurosurgery, University of South Florida, Tampa, Florida. All morning session every Friday for 6 weeks from July 1st –Mid-August.  
   a. 2008  
   b. 2009  
   c. 2010  
   d. 2012

e. 2013

1. Advances in Skull Base Surgery and Medicine: Program Chair, Course Director and Faculty. An ACCME accredited one day course on the up to date multidisciplinary management of skull base lesions sponsored by University of South Florida, Tampa, Florida  
   a. 1st Annual Advances in Skull Base Medicine and Surgery: Tampa General November 14, 2009  
   b. 2nd Annual Advances in Skull Base Medicine and Surgery: Tampa Marriott Waterside Hotel. November 20, 2010
2. Fifth Annual Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 10/2011  
   Course Faculty
3. The 2nd Florida Aneurysm Workshop; University of Miami Miller School of Medicine, Miami, FL 11/2011  
   Course Faculty
4. Incorporation of Electronic Technology to Improve Clinical Practice: Current Uses and Future Directions: Practical course faculty. The 80th Annual Scientific Meeting of The American Association of Neurosurgery, Miami, Florida 4/2012.
5. Sixth Annual Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 10/2012  
   Course Faculty
6. Sixth Annual Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 11/2012  
   Course Faculty
7. Trigeminal Schwannoma: The 23rd North American Skull Base Society Meeting, Miami February 15-17,2013. Course Moderator.
8. Incorporation of Electronic Technology to Improve Clinical Practice: Current Uses and Future Directions: Practical course faculty. The 80th Annual Scientific Meeting of The American Association of Neurosurgery, New Orleans, Louisiana 4/2013.
9. Microscopic and Endoscopic Approaches to the Skull Base: IRCAD France. Course faculty. Strasbourg, France June 19-21,2013
10. Seventh Annual Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 11/2013  
    Course Faculty
11. Incorporation of Electronic Technology to Improve Clinical Practice: Current Uses and Future Directions: Practical course faculty. The 81st Annual Scientific Meeting of The American Association of Neurosurgery, San Francisco, CA 4/2014.
12. The 1st Annual Microsurgery and Endoscopy Simulation Summer Course for University of Colorado Neurosurgery Residents. Course Director and Instructor. An annual cadaveric dissection-training course in Skull Base Surgical Techniques. Presented in the CSI Laboratory, Department of Neurosurgery, University of Colorado. 7-8/2014.
13. [Endoscopic and Keyhole Approaches to the Anterior Skull Base – Part 1 Keyhole Craniotomy and Endoscopic Assisted Microsurgery.](https://www.cns.org/annual-meeting-2014/education/sessions/endoscopic-and-keyhole-approaches-anterior-skull-base-%E2%80%93-part) The Congress of Neurological Surgeons Annual Meeting, Boston MA 10/2014. Course faculty.
14. [Endoscopic and Keyhole Approaches to the Anterior Skull Base – Part 2 Keyhole Craniotomy and Endoscopic Assisted Microsurgery.](https://www.cns.org/annual-meeting-2014/education/sessions/endoscopic-and-keyhole-approaches-anterior-skull-base-%E2%80%93-part) The Congress of Neurological Surgeons Annual Meeting, Boston MA 10/2014. Course faculty.
15. Eighth Annual Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 11/2014  
    Course Faculty
16. The 1st Annual Course for Microscopic and Endoscopic Approaches to the Skull base, University of Colorado, Aurora 3/2015. Course director
17. The 2015 Keller Lectureship in Surgical Anatomy and Research: University of Cincinnati, OH 3/2015. Course faculty
18. The 4th Annual Advanced Open and Endoscopic Techniques in Complex Skull Base Surgery, Mahwah, NJ 3/2015. Course faculty
19. Microscopic and Endoscopic Approaches to the Skull Base: IRCAD France. Course faculty  
    Strasbourg, France June 3-5, 2015
20. The 2nd Annual Microsurgery and Endoscopy Simulation Summer Course for University of Colorado Neurosurgery Residents. Course Director and Instructor. An annual cadaveric dissection-training course in Skull Base Surgical Techniques. Presented in the CSI Laboratory, Department of Neurosurgery, University of Colorado. 7-8/2015.
21. 3rd Annual SLU Combined Ventricular and Skull Base Endoscopy Course: St Louis, Missouri. Course Faculty, August 27-30th, 2015
22. Endoscopic and Keyhole Cranial Surgery - Part 1: Keyhole Craniotomy and Endoscopic Assisted Microsurgery (Cadaver Course)-Course faculty. New Orleans, Louisiana, September 26th, 2015
23. Endoscopic and Keyhole Cranial Surgery - Part 2: Endoscopic Endonasal Skull Base Surgery (Cadaver Course) – Course faculty. New Orleans, Louisiana, September 30th, 2015
24. 9th Annual Endoscopic and Microscopic Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 11/2015  
    Course Faculty
25. The 2nd Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO. March 2-5/2016. Course Director.
26. The 3rd Egyptian Microscopic and Endoscopic Skull Base Approaches: Hands-On Cadaver Workshop. Cairo, Egypt March 18-21, 2016. Course Faculty
27. The 3rd Annual Microsurgery and Endoscopy Simulation Summer Course for University of Colorado Neurosurgery Residents. Course Director and Instructor. An annual cadaveric dissection-training course in Skull Base Surgical Techniques. Presented in the CSI Laboratory, Department of Neurosurgery, University of Colorado. 7-8/2016.
28. One-day microsurgery simulation course at Rutgers University, Newark, NJ. October 6th, 2016
29. 10th Annual Endoscopic and Microscopic Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 11/2016  
    Course Faculty
30. Microscopic and Endoscopic Approaches to the Skull Base: IRCAD France. Course faculty. Strasbourg, France January 18-20, 2017
31. North American Skull Base Society 27th Annual Meeting March 3-5, 2017 - New Orleans, LA. Pre-meeting Cadaver course. Course faculty
32. The 3rd Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO. March 15-18th/2017. Course Director.
33. North American Skull Base Society Summer Course July 6-9, 2017 at LSU - New Orleans, LA. Cadaver course. Course faculty
34. The 4th Annual Microsurgery and Endoscopy Simulation Summer Course for University of Colorado Neurosurgery Residents. Course Director and Instructor. An annual cadaveric dissection-training course in Skull Base Surgical Techniques. Presented in the CSI Laboratory, Department of Neurosurgery, University of Colorado. 7-8/2017.
35. 11th Annual Endoscopic and Microscopic Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 11/2017  
    Course Faculty
36. The 7th INERF-ASEAN (The Southeastern Asian Neurosurgery Meeting) Skull Base Hands on Dissection Workshop. Microsurgical Learning Center, King Chulalongkorn

University Medical Center, Bangkok, Thailand. December 27-29, 2017.  
Course Faculty

1. The 28th Annual North American Skull Base Society Meeting, San Diego February 14-18th. 2018 Premeeting Course. Course faculty.
2. The 4th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO. March 14-17/2018. Course Director.
3. The 41st Egyptian Congress of Neurosurgery Premeeting Course. Cairo, Egypt 3/2018. Course faculty
4. The 5th Annual Microsurgery and Endoscopy Simulation Summer Course for University of Colorado Neurosurgery Residents. Course Director and Instructor. An annual cadaveric dissection-training course in Skull Base Surgical Techniques. Presented in the CSI Laboratory, Department of Neurosurgery, University of Colorado. 7-8/2018.
5. 12th Annual Endoscopic and Microscopic Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 11/2018  
   Course Faculty
6. The 5th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO. March 14-17/2019. Course Director.
7. The 6th Advanced Microscopic and Endoscopic Skull Base Approaches: Hands-on cadaver Workshop. Cairo, Egypt 23-26th March, 2019. Course faculty.
8. EANS (European Association of Neurosurgery) Training Course – Tumor May 5-8, 2019. Moscow, Russia. Course faculty
9. The 6th Annual Microsurgery and Endoscopy Simulation Summer Course for University of Colorado Neurosurgery Residents. Course Director and Instructor. An annual cadaveric dissection-training course in Skull Base Surgical Techniques. Presented in the CSI Laboratory, Department of Neurosurgery, University of Colorado. 7/2019.
10. Microscopic and Endoscopic Approaches to the Skull Base: IRCAD France. Course faculty. Strasbourg, France 6/2019
11. Japan Lab. Microdissection Course. Course faculty. Denver, Colorado 8/26-20, 2019
12. First Annual Carle Illinois Microsurgery & Endoscopy Hands on Cadaver Course.   
    Course faculty. Champaign, Il 8/29-31, 2019
13. Microscopic and Endoscopic Approaches to the Skull Base: IRCAD France. Course faculty. Strasbourg, France 28-31, 2020
14. EANS (European Association of Neurosurgery) Training Course – Tumor. February 2-5, 2020. Sarajevo, Bosnia. Course faculty
15. The 7th Annual Microsurgery and Endoscopy Simulation Summer Course for University of Colorado Neurosurgery Residents. Course Director and Instructor. An annual cadaveric dissection-training course in Skull Base Surgical Techniques. Presented in the CSI Laboratory, Department of Neurosurgery, University of Colorado. 7-8/2020.
16. Congress of Neurological Surgeons Oral Boards Review Virtual Course: September 12-13, 2020
17. EANS Cranial Step II. Hands on cadaveric course; course faculty. Geneva, Switzerland September 5-8, 2021
18. Skull Base and Open Cerebrovascular Surgery Course-Stryker. Hands on Cadaveric Course; course faculty. Salt Lake City, Utah September 8-12, 2021
19. The 6th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO. November 3-6, 2021. Course Director
20. Microscopic and Endoscopic Approaches to the Skull Base: IRCAD France. Course faculty. Strasbourg, France 1/2022
21. NASBS Premeeting Hands on Skull Base Course. Phoenix, AZ 2/17/2022. Course Faculty
22. Trilogia de Base de Craneo Parte 1. 360 Degree Skull Base Course. Mexico City, Mexico, May 19-22, 2022. Course Faculty
23. Skull Base and Open Cerebrovascular Surgery Course-Stryker. Hands on Cadaveric Course; Salt Lake City, Utah August, 2022. Course faculty
24. The 7th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO. November 16-19, 2023. Course Director
25. Microscopic and Endoscopic Approaches to the Skull Base: IRCAD France. Course faculty. Strasbourg, France 23-27, 2023. Course faculty
26. Pacific Rim Master Class in Endoscopic Endonasal and Keyhole Surgery: Pacific Neuroscience Institute & University of Colorado. March 24-26, 2023. Santa Monica, CA

**Honors**

1991 Bachelor’s Degree of medicine & Surgery with Honors

1996 Honored sabbatical to study Pediatric Neurosurgery in Philadelphia, Pennsylvania

2001 Honored sabbatical to study Skull Base Surgery in Cincinnati, Ohio

**Awards**

Best Abstract: Defining cerebellopontine edema in vestibular schwannoma grade, a radiographic feature relevant to surgical outcomes**.** The 9th Quadrennial Conference on Vestibular Schwannoma and Other CPA Tumors. Bergen, Norway May 14-16 2023

**Teaching Experience: Residents Training**

2008-2009 Magdalena Banasiak, M.D. – Fellowship in Spine Oncology, MD Anderson, Houston, Texas. Practicing in Salem, Oregon

Nicholas Arredondo, M.D. – Practicing in Savannah, Georgia

2009-2010 Edwin Ramos, M.D. – Assistant Professor, University of Chicago, IL

Clinton Burkett, M.D. – Practicing Neurosurgeon, Fort Lauderdale, FL

2010-2011 Ali Baaj, M.D, Assistant Professor, Cornell University, NY

2011-2012 Elias Dakwar, M.D., - Assistant Professor USF,   
Glenn Pollock, M.D.-Assistant Professor MCW

2012-2013 Tsz Lau,M.D., Assistant Professor USF,   
Tien Le, M.D.- Practicing Neurosurgeon, Brandon, FL

2013-2014 Rohit Vasan, MD, Assistant Professor USF  
Armen Deukmedjian, MD, Assistant Professor USF

2014-2015 Jacob Freeman, University of Colorado  
Fellow, MD Anderson

2016 Steven Carr, University of Colorado

2017 Daniel Craig, University of Colorado

2019 Alex Yang, University of Colorado

Kathryn Kunigelis, University of Colorado  
Zach Folzenlogen, University of Colorado

2020 Jeremy Hossain, University of Colorado  
Ross Whelan, University of Colorado

2021 David Mann, University of Colorado

Frank Walsh, University of Colorado

**Teaching Experience: Clinical Fellowship Training:**

2008-2009 Rashid Janjua, M.D., University of Kentucky, Louisville, Kentucky

Current: Attending neurosurgeon, Winston Salem, North Carolina

2009-2010 Michael Huang, M.D., Georgetown University, Washington DC

Current: Associate Professor- Neurosurgery at University of California San Francisco

2010-2011 Raul Olivera, M.D., St. Louis University, Saint Louis, Missouri   
 Current: Associate Professor, University of South Florida

2011-2012 Justin Sweeney, M.D., St. Louis University, Saint Louis, Missouri  
 Current: Attending neurosurgeon, Mercy Hospital, St Louis, Missouri

2012-2013 Jamie van Gompel, M.D., Mayo Clinic; Rochester, Minnesota   
 Current: Professor of Neurosurgery at Mayo Clinic, Rochester, MN

Andrew Carlson, M.D., University of New Mexico; Albuquerque, New Mexico  
 Current: Associate Professor-Neurosurgery at University of New Mexico

2013-2014 Kenneth De Los Reyes, MD, Mount Sinai University, NY

Current: Associate Professor-Neurosurgery at Loma Linda University, CA  
  
2014-2015 Jacob Freeman, MD, University of Colorado  
 Current: Attending neurosurgeon, Florida

2015-2016 Raghuram Sympath, MD, St Louis University

Current: Attending neurosurgeon, Florida

2016-2017 Ciro Vasquez, MD, University of Minnesota  
 Current: Attending neurosurgeon, Minnesota

2017-2018 Mohammed Aref, MD, McMaster University  
Current: Chief of Skull Base Surgery and Cerebrovascular  
King Faisal Specialized Hospital, Jedda, KSA  
  
Alexander Yang, MD, University of Colorado  
Current: Assistant Professor of Neurosurgery  
Creighton University, Omaha, NE

2018-2019 Gregory Arnone, MD, University of Illinois Chicago  
Current: Assistant Professor of Neurosurgery, Penn State University, PA  
  
Kathryn Kunigelis, MD, University of Colorado

Current: PeaceHealth Cottage Grove Community Medical Center, Oregon

2019-2020 Mohamed Labib, MD, BNI

Assistant Professor of Neurosurgery, University of Maryland

Mizuho Inoue, University of Tokyo

Assistant Professor, University of Tokyo

2020-2021 Rafael Martinez-Perez, MD  
Assistant Professor of Neurosurgery- Geisinger Commonwealth School of Medicine

2021-2022 Domenico Gattozzi, MD, University of Kansas

Current: Acclaim Multi-specialty Group. Fort Worth, TX

**Teaching Experience: Medical Students**

2008 Ciro Vasquez- 4th year medical student, New Jersey Medical School

8/4/2008 - 8/29/2008

Kofi Inkabi – 4th year medical student, University of Kentucky

9/22/2008 – 10/3/2008

Michael Labagnara – 4th year medical student, New Jersey Medical School

8/4/2008 – 8/29/2008

2009 Shan Hann- 4th year medical student, University of South Florida  
 7/6/2009 - 8/31/2009 and 9/28/2009 - 10/23/2010

Yana Mikhayla- 4th year medical student University of Michigan

9/28/2009 – 10/23/2009

Joshua Beckman- 4th year medical student, University of Alabama

9/21/2009 – 10/2/2009

Andrew Ayers- 4th year medical student, University of Nevada

9/28/2009 – 10/23/2009

2010 Scott Raffa- 4th year medical student, University of South Florida

6/7/2001 – 7/30/2010

8/30/2010 – 9/24/2010

Angela Bohnen- 4th year medical student, University of Louisville

8/2/2010 – 8/27/2010

Stephen Sandwell- 4th year medical student, University of Louisville

8/2/2010 – 8/27/2010

Jackie Thierrien- medical student, University of New England College of Osteopathic Medicine

8/2/2010 – 8/27/2010

Kathryn Hoes- 4th year medical student, UMDNJ-RW Johnson Medical School

9/27/2010 – 10/22/2010

Tamir Tawfik- 4th year medical student, Louisiana State University School of Medicine 9/27/2010 – 10/22/2010

2016 Oushi Soliman- 4th year medical student, University of Colorado  
 2015-2016

2020 Katherine Belanger- 2nd year medical student, University of Colorado  
 Eliza Baird-Daniel- 3rd year medical student

2022 Madeline Olson- 1st year medical student, University of Colorado

**Stephen Klasko Observership Program**

2011 Maria Martucci- 5th year medical student, U Latina, Panama

9/26/2011 – 10/21/2011

2012 Ahmed Essam- 5th year medical student, Ain Shams University, Egypt.

1/4/2012 – 1/27/2012

**Teaching experience: Undergraduate Students**

2009 Laura Faye Willard- College student at University of South Florida and surgical technician at Tampa General Hospital. Medical School Applicant. Co-investigator in a research project titled: “Frontotemporal-Orbitozygomatic Approach: Reconstructive Technique and Cosmetic Outcome” (Graduation thesis).  
Currently anesthesia attending Michigan.

2021 Lindsey Evans- College student at Miami University, Dayton, OH

2020-22 Lisa Hirt- University of Colorado

2022 Olivia Ovard- Biology student, University of Colorado, Denver.

**Funded Research Experience**

1. Principal Investigator: Altered CSF Dynamics in Early Shunted Hydrocephalus.Thesis funded by Ain Shams University, Cairo, Egypt; for the partial fulfillment of the Doctorate Degree (PhD) in Neurosurgery. Philadelphia, Pennsylvania 1996-1998
2. Co-investigator: Structural and Mechanichal Properties of the Developing Human Skull with Numerical Simulation during Impact Loading. A CDC funded Biomechanical Research. Hahnemann University Biomechanics Lab. 1997- 1998
3. Occipito-cervical Stabilization Using Occipital Condyle for Cranial Fixation. Co-investigator in a funded Biomechanical Study. 2007- 2008
4. MGI Pharma (Eisai), Protocol # GLIA-001 Title: A Phase 2, Multicenter, Exploratory Study, Evaluating the Treatment Effect of Surgery plus GLIADEL Wafer in Patients with Metastatic Brain Cancer.  
   Sub-Investigator
5. Adherus Dural sealant. Co-investigator in a funded Pivotal Clinical Trial. 2011
6. HyperBranch Medical Technology, Inc., Protocol #: HBMT-US-2010-001 Title: A Pivotal Clinical Trial Evaluating the Safety and Effectiveness of Adherus Dural Sealant When Used as a Dural Sealant in Cranial Procedures. Sub-Investigator 2012
7. Ferromagnetic Dissection in Neurosurgical Procedures: Co-investigator in a funded clinical trial 2012.
8. NIH/NINDS – Title: Clot Lysis: Evaluating Accelerated Resolution of Intraventricular Hemorrhage - CLEAR III Sub-Investigator 2014
9. Northwest Biotherapies (1/3/2012 – present) A Phase II Clinical Trial Evaluating DCVax-Brain, Autologous Dendritic Cells Pulsed with Tumor Lysate Antigen for the Treatment of Glioblastoma Multiforme (GBM).

Protocol Number: 020221).   
Role: Co-investigator

1. Department Funded/Investigator-initiated (04/04/2014 – Present) Frailty as a Predictor of Neurosurgical Outcomes in Brain Tumor Patients.   
   Protocol Number: 14-0579.    
   Role: Co-investigator
2. Department Funded/Investigator-initiated (01/17/2014 –present)  Central Nervous System Biorepository Protocol.  (Protocol Number: 13-3007).    
   Role: Co-investigator
3. Department Funded/Investigator-initiated Minimally invasive Subcortical Parafascicular Access for Clot Evacuation  
   IRB#: 15-0842   
   Sponsor: Department

IRB Approval/Expiration Dates:  5/22/15 – 5/23/17.

Role: Principal Investigator

13. A Phase 2/3 Randomized, Open-Label Study of Toca 511, a Retroviral Replicating Vector, Combined with Toca FC versus Standard of Care in Subjects Under IRB#:    15-1752

Sponsor:  Tocagen, Inc.

IRB Approval/Expiration Dates:  09/07/2016 – 09/06/2017  
Role: Co-investigator

14. Vigilant observatIon of GlIadeL WAfer ImplaNT (VIGILANT) Registry: A Multicenter, Observational Registry to Collect Information on the Safety and Efficacy of Gliadel® Wafer (Carmustine Implant) Used in Usual Medical Practice Sponsor Protocol No. AE22.001 WIRB Protocol No. 20152789IRB#:

IRB#:                     15-2153

Sponsor:             Arbor Pharmaceuticals, LLC

IRB Approval/Expiration Dates:  04/14/2016 – 04/13/2017   
Role: Sub-investigator

15. A Phase 2/3 Randomized, Open-Label Study of Toca 511, a Retroviral Replicating Vector, Combined With Toca FC versus Standard of Care in Subjects Under

IRB#:                     15-1752

Sponsor:             Tocagen, Inc.

IRB Approval/Expiration Dates:  09/07/2016 – 09/06/2017

Role: Sub-investigator

16. A Phase ll Clinical Trial Evaluating DCVax-Brain, Autolgous Dendritic Cells Pulsed with Tumor Lysate Antigen for the Treatment of Glioblastoma Multiforme ( GBM). Sponsor Protocol 020221. WIRB Protocol No. 20080606

IRB#:                     11-1777

Sponsor:              Northwest Biotherapies

IRB Approval/Expiration Dates:  1/3/12-Present

Role: Sub-investigator

17. Variable Expression of Biomarkers in Pituitary Tumors

IRB#:                     04-0488

Sponsor:              Department

IRB Approval/Expiration Dates:  4/21/08 – 5/2/17  
 Role: Sub-investigator

**Research Labs**

1. Hahnemann University Biomechanics Laboratory, Philadelphia, Pennsylvania: 1996-1998
2. The Henry Goodyear Laboratory. University of Cincinnati, Cincinnati, Ohio – Instructor of Microsurgical anatomy: 2001-2002
3. The Osman Microsurgical Laboratory. University of South Florida, Tampa, Florida – Instructor of Microsurgical Anatomy: 2002-Present.

Director as of 7/2011 – 5/2014

4. The CSI Microsurgery Laboratory. University of Colorado, Aurora, CO – Instructor of Microsurgical

Anatomy: 6/2014 – Present

1. The Microvascular Procedures Lab. Vivarium of University of Colorado

2015-Present

**Peer Reviewed Publications**

1. **Youssef AS**, Magram G: Altered CSF Dynamics in Early Shunted Hydrocephalus.Thesis submitted for the partial fulfillment of the Doctorate Degree (PhD) in Neurosurgery. Ain Shams University, Cairo Egypt, 2000
2. **Youssef AS**, Aziz K, Kim EY, Keller JT, Zucarello M, van Loveren**:** The Carotid Oculomotor triangle in Exposure of Upper Basilar Aneurysms: A Cadaveric Morphometric Study. Neurosurgery 54: 1181-1189, 2004
3. **Youssef AS**, van Loveren HR: Microvascular Retractor: A New Concept of Retracting and Repositioning Cerebral Blood Vessels. Neurosurgery 57 [ONS Suppl 1]: ONS 199-202,2005.
4. Lippman C, Spence C, **Youssef AS**, Cahill DW: Correction of adult scoliosis via a posterior- only approach. Neurosurg. Focus/ Volume 14 (1): Article 5/ January, 2003
5. **Youssef AS**, Agazzi S, van Loveren HR: Transcranial surgery for pituitary adenomas. Neurosurgery 57 [ONS Suppl 1]: ONS 168-175, 2005.
6. **Youssef S**, Kim EU, Aziz K, Hemida S, van Loveren H: The Interdural Approach to Trigeminal Schwannomas. Neurosurgery [ONS Suppl.]: ONS Vol 59,270-278, 2006
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32. [Philip D Tatman](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Tatman+PD&cauthor_id=35248772)[1](https://pubmed.ncbi.nlm.nih.gov/35248772/#affiliation-1), [Tadeusz H Wroblewski](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Wroblewski+TH&cauthor_id=35248772)[2](https://pubmed.ncbi.nlm.nih.gov/35248772/#affiliation-2), [Anthony R Fringuello](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Fringuello+AR&cauthor_id=35248772)[3](https://pubmed.ncbi.nlm.nih.gov/35248772/#affiliation-3), [Samuel R Scherer](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Scherer+SR&cauthor_id=35248772)[2](https://pubmed.ncbi.nlm.nih.gov/35248772/#affiliation-2), [William B Foreman](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Foreman+WB&cauthor_id=35248772)[2](https://pubmed.ncbi.nlm.nih.gov/35248772/#affiliation-2), [Denise M Damek](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Damek+DM&cauthor_id=35248772)[4](https://pubmed.ncbi.nlm.nih.gov/35248772/#affiliation-4), [**A Samy Youssef**](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Youssef+AS&cauthor_id=35248772)[3](https://pubmed.ncbi.nlm.nih.gov/35248772/#affiliation-3) ,[Kevin O Lillehei](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Lillehei+KO&cauthor_id=35248772)[3](https://pubmed.ncbi.nlm.nih.gov/35248772/#affiliation-3), [Randy L Jensen](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Jensen+RL&cauthor_id=35248772)[5](https://pubmed.ncbi.nlm.nih.gov/35248772/#affiliation-5),  [Michael W Graner](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Graner+MW&cauthor_id=35248772)[3](https://pubmed.ncbi.nlm.nih.gov/35248772/#affiliation-3), [D Ryan Ormond](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Ormond+DR&cauthor_id=35248772)[3](https://pubmed.ncbi.nlm.nih.gov/35248772/#affiliation-3): High-throughput screening of epigenetic inhibitors in meningiomas identifies HDAC, G9a, and Jumonji-domain inhibition as potential therapies. J Neurol Surg B Skull Base   
    DOI: 10.1055/a-1885-1257 June 2022.
33. **Youssef AS**, Schroeder HWS. Indication for a skull base approach in microvascular decompression for hemifacial spasm. Acta Neurochir (Wien). 2022 Oct 24. doi: 10.1007/s00701-022-05398-1. PMID: 36279011
34. Wenbo Zhou, Daniel Lovasz, Zoë Zizzo, Qianbin He, Christina Coughlan, Robert G. Kowalski, Peter G. E. Kennedy I, Arin N. Graner 1, Kevin O. Lillehei 1, D. Ryan Ormond 1, **A. Samy Youssef**, Michael W. Graner, and Xiaoli Yu: Phenotype and Neuronal Cytotoxic Function of Glioblastoma Extracellular Vesicles Biomedicines 2022, 10, 2718. <https://doi.org/10.3390/biomedicines10112718>
35. Ung TH, Freeman L, Hirt L, Kortz M, Belanger K, Baird-Daniel E, Hosokawa P, Thaker A, Thompson JA, **Youssef AS.** Surgical outcomes in large vestibular schwannomas: should cerebellopontine edema be considered in the grading systems? Acta Neurochir (Wien) 2023 May 18.

  doi: 10.1007/s00701-023-05627-1.

**Journal Issue Cover:**

1. Labib M, Inoue M, Banakis M, Cass S, Gubbels S, Lawton M, **Youssef AS**: Impact of vestibular nerve preservation on facial and hearing outcomes in small vestibular schwannoma surgery: a technical feasibility study. Acta Neurochir (Wien) 2021 Jan. doi.org/10.1007/s00701-020-04678-y

2. Labib M, Belykh E, Cavallo C, Zhao X, Catapano J, Nwojo M, Prevedello D, Carrau R, Little A, Preul M, **Youssef AS**, Nakaji P: The endoscopic endonasal eustachian tube anterolateral mobilization strategy: minimizing the cost of the extreme-medial approach. J Neurosurg. 2020 Mar 13:1-12. doi: 10.3171/2019.12. JNS192285.

3. Labib M, Zhao X, Houlihan LM, Abramov IT, Inoue M, Martinez-Perez R, Catapano JS, Lawton M, Preul MS, **Youssef AS**: A two-stage combined anterolateral and endoscopic endonasal approach to the petroclival region: an anatomical study and clinical application. Acta Neurochir (Wien).2022 April, 13 doi.org/10.1007/s00701-022-05201-1

**Book Chapters**

1. Youssef AS, van Loveren H: Anterolateral Approaches to Parasellar Chordomas & Chondrosarcomas. In: **Chordomas & Chondrosarcomas**. Harsh, Janecka, Mankin, et al.(Ed): New York, Thieme 2003
2. Handbook of Neurosurgery:   
   a. SAH and Aneurysms. Mark S. Greenberg (Ed): New York, Thieme, Sixth Edition 2005  
   b. Pineal Tumors. Mark S. Greenberg (Ed): New York, Thieme , Seventh Edition 2010
3. Downes AE, **Youssef AS**: Surgical Approaches for Pineal Lesions. In: **The Pineal Gland and Melatonin.** New York,Nova. Ch. 24: pp.351-366
4. Downes AE, Ahmadian A, **Youssef AS**: Intraoperative neurophysiological monitoring of facial nerve. In **Encyclopedia of Otolaryngology, Head & Neck Surgery.** Springer Verlag 2013
5. Ahmadian A, Downes AE, **Youssef AS**: Cranial nerves VIII, IX, X and XI Monitoring during Skull Base Procedures. In **Encyclopedia of Otolaryngology, Head & Neck Surgery.** Springer Verlag 2013
6. Sweeney JM, Youssef AS, van Loveren HR. Surgical Approaches to the Posterior Fossa. In **Neurovascular Surgery 2nd Edition.** Spetzler RF, Kalani MY, and Nakaji P. (Eds.) Thieme Medical Publishers Inc., 333 Seventh Ave., New York, NY 10001. USA. 2015 Chapter 89. Pgs. 1069-1081.
7. Sampath R., Cass S., **Youssef AS**.: Prevention and Management of CSF Leak After Acoustic Neuroma Surgery. Comprehensive Management of Acoustic Neuroma. Chapter 47. 6/2019
8. Ashour R, Shah R, **Youssef AS**, Agazzi S, van Loveren H: Chordomas and Chondrosarcomas of the Skull Base: Anterolateral Approaches: Harsh, Janecka, Mankin, et al.( 2nd Ed): New York, Thieme 2019
9. Downes A., **Youssef AS**: Olfaction Preservation in Anterior Skull Base Meningioma.   
   Skull Base Strategies. Thieme, New York 2019
10. Aref M., **Youssef AS.**: Re-bleeding, Vasospasm, and Hydrocephalus after Subarachnoid Hemorrhage. in Complications of Acute Stroke. Springer/Demos Medical Publishing, New York. 2019
11. Martinez-Perez R., **Youssef AS**.: Evolution of the Multidisciplinary Skull Base Team  
    in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
12. Martinez-Perez R., **Youssef AS**.: The Operating Room, in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
13. Martinez-Perez R., **Youssef AS**.: Cranial Nerve Functional Preservation: Tricks of the Trade, in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
14. Martinez-Perez R., Downes AE., **Youssef AS**.: Neurophysiologic Monitoring, in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
15. **Youssef AS.:** Microdissection Tools,in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
16. Reddy VP, Benet A, Labib M, **Youssef AS.:** The Pretemporal transcavernous Approach**,** in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
17. Folzenlogen Z, Yang A, **Youssef AS.:** Keyhole Approaches to the Posterior Fossa: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
18. Martinez-Perez R., Downes AE., **Youssef AS**.: Pineal Tumors, in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
19. Martinez-Perez R., **Youssef AS**.: Anterior Skull Base Meningiomas, in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
20. Sethi A, **Youssef AS**.: Open Surgical Approaches to Meckel’s Cave, in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
21. Martinez-Perez R., **Youssef AS**.: Schwannomas of the Infratemporal Fossa, in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
22. Martinez-Perez R., Gubbels S, **Youssef AS**.: Cholesterol Granulomas and Endolymphatic Sac Tumors, in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
23. Labib M., **Youssef AS**.: The Cavernous Sinus: Surgical Approaches, Open and Endoscopic, in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
24. Martinez-Perez R., **Youssef AS**.: Jugular Foramen Chondrosarcoma, in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
25. Cho SS., Labib M., **Youssef AS**.: Petroclival Meningiomas, in Contemporary Skull base Surgery: A Comprehensive Guide to Functional Preservation. Springer Nature, 2022. **ISBN:** 978-3-030-99320-7.
26. **Youssef AS,** Winston KR: Frontal, Frontotemporal and related Approaches, in  
    Plastic Neurosurgery: Opening and Closing Neurosurgical Doors in Adults and Children. Springer Nature 2023. ISBN978-3-031-27871-6
27. Winston KR, **Youssef AS**: Convexity Approaches to the Cranial Vault, in  
    Plastic Neurosurgery: Opening and Closing Neurosurgical Doors in Adults and Children. Springer Nature 2023. ISBN978-3-031-27871-6

**Textbooks:**

**Contemporary Skull Base Surgery: A Comprehensive Guide to Functional Preservation**

Publisher: Springer Nature

Editor: A Samy **Youssef  
ISBN:** 978-3-030-99320-7 Published: 7/2022



**Patents, Inventions and Copyrights:** 1. Microvascular retractor for retracing and repositioning cerebral vessels, Mayfield Surgical Device Integra Brain Retractor System (A2012)

2. Endoscopic sheath with biomimetic retractor. US Patent: 8,080,030.

1. Dural Knife with Foot Plate. Provisional Patent 11/539996.
2. Novel application of Computer **-**assisted Cisternal Endoscopy for the Biopsy of PinealRegion Tumors (novel technique published in Acta Neurochirurgica 2007)
3. Posterior Clinoidectomy: Dural Tailoring Technique (novel technique published in Skull Base 2009)
4. Interfascial Technique for Vertebral Artery Dissection in the Suboccipital Triangle (novel technique published in Neurosurgery 2010)
5. Combined Subgaleal/Myocutaneous Technique for Temporalis Muscle Dissection (novel technique accepted for publication: Thieme; Journal of Neurological Surgery 2012)
6. Unilateral Endonasal Transcribriform Approach with Septal Transposition for Olfactory Groove Meningioma: Can Olfaction be Preserved? (Novel techniques for preservation of olfaction) Acta Neurochir (Wien). 2016 Oct;158(10):1965-72. doi: 10.1007/s00701-016-2922-1.
7. Youssef Cranial Nerves Dissection Microinstruments Set. Mizuho America.   
   Released 4/2019
8. Vestibular nerve preservation to improve facial and hearing outcomes in small vestibular schwannoma surgery: a technical feasibility study. Acta Neurochir (Wien) 2021 Jan. doi.org/10.1007/s00701-020-04678-y

**Educational Grants:**

The Annual Microscopic and Endoscopic Skull Base Course; CSI Lab. University of Colorado Denver, CO: Industry sponsored invitational national course for senior residents in Neurosurgery and Otolaryngology.

* 2015: 110 K
* 2016: 108 K
* 2017: 138 K
* 2018: 129.5 K
* 2019: 137 K
* 2021: 128 K
* 2022: 142.3 K

**Invited Publications:**

1. van Loveren H, **Youssef A S**: Malignant skull base teratoma. Skull Base: An Interdisciplinary Approach; Experts Corner. Vol.12 No. 4: 221-225, 2002
2. **Youssef AS**, Agazzi S, van Loveren HR: Transcranial surgery for pituitary adenomas. Neurosurgery 57 [ONS Suppl 1]: ONS 168-175, 2005.
3. **Youssef AS**, Sloan A: Extended Transoral Approaches. Surgical Technique and Analysis. Neurosurgery. 2010 Mar; 66(3 Suppl):126-34.
4. Aref MH, **Youssef AS**: Training the Skull base Surgeon of the Future: A Comprehensive Approach. J Neurosurg Sci. 2018 May 22. doi: 10.23736/S0390-5616.18.04475-2. [Epub ahead of print]
5. Yang A, Folzenlogen Z, **Youssef AS**: Minimally Invasive Endoscopic Assited Approaches to the Posterior Fossa. J Neurosurg Sci. 2018 May 22. doi:   
   10.23736/S0390-5616.18.04474-0.
6. **Youssef AS**, Schroeder HWS. Indication for a skull base approach in microvascular decompression for hemifacial spasm. Acta Neurochir (Wien). 2022 Oct 24. doi: 10.1007/s00701-022-05398-1. PMID: 36279011   
     
     
   **Presentations:** International
7. Transcranial Approaches to Pituitary adenomas; (with van Loveren)

The National Skull Base Meeting. Sydney, Australia 11/2004 (invited)

1. The Interdural Approach to Trigeminal Schwannoma; (with Kim EU)  
   The National Skull Base Meeting. Sydney, Australia 11/2004
2. Transcranial Approach to Basilar Artery Aneurysms  
   5th International Congress of the Skull Base Societies, Vancouver BC, Canada 9/2008
3. Percutaneous Approach to The Skull Base: Complication Avoidance and Management;(with Agazzi)  
   5th International Congress of the Skull Base Societies, Vancouver BC, Canada 9/2008
4. The Making of a Cerebrovascular Skull Base Surgeon: The Annual Meeting of Egyptian Society of Neurological Surgeons (ESNS) In Collaboration with the AANS. Hurghada, Egypt 3/2009 (invited)
5. Managing Difficult Meningiomas: International 35th annual meeting of the Egyptian Society of Neurological Surgeons (ESNS) Sharm El-Sheikh, Egypt 3/2010
6. Interfascial Technique for Vertebral Artery Exposure in the Suboccipital Triangle: International 35th annual meeting of the Egyptian Society of Neurological Surgeons (ESNS) Sharm El-Sheikh, Egypt 3/2010
7. Endoscopic Assisted Neurosurgery: Microscopic and Endoscopic Approaches to the Skull Base-IRCAD France. Strasbourg, France 6/20/2013
8. Key Hole Approaches and Endoscopic Assisted Skull base Surgery: 11th European Skull Base Society Congress 26th-28th June 2014, Palais des Congrès de Paris- Paris, France
9. Endoscopy of the Posterior Fossa: Indications and Limits. 11th European Skull Base Society Congress 26th-28th June 2014, Palais des Congrès de Paris- Paris, France
10. Surgical Approaches to the Cavernous Sinus: IRCAD Strasbourg, France June 3-5, 2015
11. Retrosigmoid Approach and Endoscopic Assisted Approaches to the CP Angle: IRCAD Strasbourg, France June 3-5, 2015
12. Surgical Exposure of the Cavernous Sinus: The 3rd Egyptian Microscopic and Endoscopic Skull Base Approaches: Hands-On Cadaver Workshop. Cairo, Egypt March 18-21, 2016.
13. Posterolateral Approaches: The Far Lateral Approach: The 3rd Egyptian Microscopic and Endoscopic Skull Base Approaches: Hands-On Cadaver Workshop. Cairo, Egypt March 18-21, 2016.
14. Endoscopic Assisted Posterior Fossa Surgery: The 3rd Egyptian Microscopic and Endoscopic Skull Base Approaches: Hands-On Cadaver Workshop. Cairo, Egypt, March 18-21, 2016.
15. Petroclival Meningiomas: Modernistic View: The 39th Annual Meeting of the Egyptian Society of Neurological Surgeons. Luxor, Egypt, March 23-26, 2016.
16. Vascular Neurosurgery: The Evolution: The 39th Annual Meeting of the Egyptian Society of Neurological Surgeons. Luxor, Egypt, March 23-26, 2016.
17. Complex Cranial Surgery: Back to the Future. Special 1 hour lecture at 7th International Congress of the World Federation of Skull Base Societies (WFSBS) and 28th Annual Meeting of Japanese Society for Skull Base Surgery (JSSBS) Jun 14 - 17, 2016. [Osaka-shi](https://www.emedevents.com/geo-conferences/japan/osaka/osaka-shi), [Osaka](https://www.emedevents.com/geo-conferences/japan/osaka)
18. Craniopharyngioma: Modernistic View. Panelist and moderator. 7th International Congress of the World Federation of Skull Base Societies (WFSBS) and 28th Annual Meeting of Japanese Society for Skull Base Surgery (JSSBS) Jun 14 - 17, 2016. [Osaka-shi](https://www.emedevents.com/geo-conferences/japan/osaka/osaka-shi), Japan
19. Surgery of the Pineal Region: Meningiomas: Panelist and moderator. 7th International Congress of the World Federation of Skull Base Societies (WFSBS) and 28th Annual Meeting of Japanese Society for Skull Base Surgery (JSSBS) Jun 14 - 17, 2016. [Osaka-shi](https://www.emedevents.com/geo-conferences/japan/osaka/osaka-shi), Japan
20. Unlocking the Cavernous Sinus. Microscopic and Endoscopic Approaches to the Skull Base-IRCAD Course. Strasbourg, France 1/18/2017
21. Endoscopic Approaches to the Petroclival Region and Cavernous Sinus: Microscopic and Endoscopic Approaches to the Skull Base-IRCAD Course. Strasbourg, France 1/18/2017
22. Aneurysm Surgery: Keyhole and Endoscopic Assisted. The 5th Fukuoka International Neurosurgical Symposium. Fukuoka, Japan 1, April 2017
23. Aneurysm Surgery: Keyhole and Endoscopic Assisted. Kochi International Neurosurgical Symposium. Kochi, Japan 2, 2017.
24. Olfaction Preservation In Olfactory Groove Meningiomas. Shanghai Punan Hospital/Duke University 3 D- Simulation International Symposium- Skull base and Cerebrovascular. Shanghai, China 8, April 2017.
25. 3-D Operative Video Session: XVI World Congress of Neurosurgery Meeting, Istanbul, Turkey. Istanbul Congress Center. August 20-25, 2017
26. Preservation of Olfaction in Midline Anterior Skull Base Meningiomas: What’s the Best Strategy? XVI World Congress of Neurosurgery Meeting, Istanbul, Turkey. Istanbul Congress Center. August 20-25, 2017.
27. Chordomas and Chondrosarcomas. Breakfast Seminar Moderator. XVI World Congress of Neurosurgery Meeting, Istanbul, Turkey. Istanbul Congress Center. August 20-25, 2017.
28. Transnasal Endoscopic Surgery to Sella and Parasellar Lesions. The 7th INERF-ASEAN (The Southeastern Asian Neurosurgery Meeting) Skull Base Hands on Dissection Workshop. Microsurgical Learning Center, King Chulalongkorn

University Medical Center, Bangkok, Thailand. December 27-29, 2017.

Microanatomy and Surgical Techniques for Extended Middle Fossa. The 7th INERF-ASEAN (The Southeastern Asian Neurosurgery Meeting) Skull Base Hands on Dissection Workshop. Microsurgical Learning Center, King Chulalongkorn

University Medical Center, Bangkok, Thailand. December 27-29, 2017.

1. Jugular Area Foramen Magnum Meningioma: The 7th INERF-ASEAN (The Southeastern Asian Neurosurgery Meeting) Skull Base Hands on Dissection Workshop. Microsurgical Learning Center, King Chulalongkorn

University Medical Center, Bangkok, Thailand. December 27-29, 2017.

1. Posterior Petrosal Approaches: The 41st Egyptian Congress of Neurosurgery Premeeting Course. Cairo, Egypt 3/2018
2. Transnasal Skull Base Endoscopy: The 41st Egyptian Congress of Neurosurgery Premeeting Course. Cairo, Egypt 3/2018
3. The Far Lateral Approach: The 41st Egyptian Congress of Neurosurgery Premeeting Course. Cairo, Egypt 3/2018
4. Preservation of Olfaction in Anterior Midline Skull Base Meningiomas: What is the Best Strategy: The 41st Egyptian Congress of Neurosurgery Cairo, Egypt 3/2018
5. Preservation of Olfaction in Anterior Midline Skull Base Meningiomas: A Comprehensive Approach. Southern Kyushu International Neurosurgical Symposium. Kagoshima University. Kagoshima, Japan 7/19/2018
6. Preservation of Olfaction in Anterior Midline Skull Base Meningiomas: A Comprehensive Approach. Kushiro Summer Seminar. Kushiro, Japan 7/27/2018
7. Endoscopic Approaches to Skull Base Tumors. International Summer Seminar. Ohno Memorial Hospital. Sapporo, Japan 7/28/2018
8. Unilateral fronto-orbital Keyhole Craniotomy as a Less Invasive Approach to Giant   
   Olfactory Groove Meningioma. Neurosurgery Week in Prague, IMS/ICCVS/WANS  
   EANS and WFNS.  
   Prague August 29 – September 2, 2018
9. Combined Endoscopic Transpterygoid and Transmastoid Approach: A Contemporary Approach to Complex Lateral Skull Base Lesions. Neurosurgery Week in Prague, IMS/ICCVS/WANS/EANS and WFNS.  
   Prague August 29 – September 2, 2018
10. A Combined Endoscopic Transpterygoid Infrapetrous and Transmastoid Endoscopic Approach to the Jugular Foramen Region. The European Association of Neurosurgical Societies EANS Meeting. Brussels, Belgium October, 2018
11. Expanding the Transpterygoid Approach to the Petroclival Region: How Much is gained? The European Association of Neurosurgical Societies EANS Meeting. Brussels, Belgium October, 2018
12. Olfaction Preservation in Anterior Skull Base meningiomas: A Comprehensive Approach. The European Association of Neurosurgical Societies EANS Meeting. Brussels, Belgium October, 2018.
13. Cavernous Sinus Exposure: The 6th Advanced Microscopic and Endoscopic Skull Base Approaches: Hands-on cadaver Workshop. Cairo, Egypt 23-26th March 2019
14. Expanded Middle Fossa Approach: The 6th Advanced Microscopic and Endoscopic Skull Base Approaches: Hands-on cadaver Workshop. Cairo, Egypt 23-26th March 2019
15. Complex lateral Skull Base Lesions: The Multiportal Concept. The 42nd Egyptian Congress of Neurosurgery. Cairo, Egypt 27-29th March 2019
16. Modern Skull Base Surgery: Cranial Nerves preservation Strategies. The 42nd Egyptian Congress of Neurosurgery. Cairo, Egypt 27-29th March 2019
17. Chordomas and Chondrosarcomas. EANS (European Association of Neurosurgery) Training Course – Tumor May 5-8, 2019. Moscow, Russia.
18. Modern Skull Base Surgery: The Law of Nature. University of Copenhagen Department of Neurosurgery Research meeting. Copenhagen, Denmark - May 9, 2019.
19. The Art of Mobilization of the lateral Wall of the Cavernous Sinus: 360-degree Skull Base Microscopic and Endoscopic Approaches: IRCAD France. Strasbourg, France June 11-14, 2019
20. The Far Lateral Approach: 360-degree Skull Base Microscopic and Endoscopic Approaches: IRCAD France. Strasbourg, France June 11-14, 2019
21. Endoscopic Endonasal Approaches to The Cavernous Sinus: 360-degree Skull Base Microscopic and Endoscopic Approaches: IRCAD France. Strasbourg, France June 11-14, 2019
22. Skull Base Surgeon of the Future: The Law of Nature: The Society of University Neurosurgeons Annual Meeting June 26-30, 2019. Dubrovnik, Croatia
23. Modern Skull Base Surgery: Cranial Nerve Preservation Strategies. The 11th BHAAAS Neurosurgical and Spine Symposium. 6/21/2019. Sarajevo, Bosnia. Keynote lecture
24. Complex Lateral Skull Base Lesions: The Multiportal Concept. The 11th BHAAAS Neurosurgical and Spine Symposium. 6/21/2019. Sarajevo, Bosnia. Keynote lecture
25. Posterior Petrosal Approaches: Japan Lab. Denver, Colorado 8/29/2019
26. Modern Skull Base Surgery: Original or Derived Intentionality. EANS Meeting, Dublin 9/26/2019. Plenary Session
27. Nervus Intermedius Outcomes Following Vestibular Schwannoma Surgery: EANS Meeting, Dublin 9/26/2019
28. The Impact of Vestibular Nerve Preservation on Hearing and Facial Nerve Outcomes in Vestibular Schwannoma Surgery EANS Meeting, Dublin 9/27/2019
29. Meningioma of the Skull Base: Session Chair EANS Meeting, Dublin 9/27/2019
30. Vestibular Schwannoma: Can Imaging Predict Postoperative Outcome? EANS Meeting, Dublin 9/28/2019
31. Combined Open and Endoscopic Approaches to Complex lateral Skull Base Lesions:  
    IFNE Meeting Orlando 11/2019
32. Surgical Approaches to the Jugular Foramen: IRCAD France. Strasbourg, France January 29, 2020
33. Endoscopic Approach to the Petrous apex: IRCAD France. Strasbourg, France January 31, 2020
34. Chordomas and Chondrosarcomas: EANS Training Course -Tumor  
    Sarajevo, Bosnia February 2-5/2020
35. Giant Pituitary Adenoma Involving the Cavernous Sinus: Microsurgery for Cerebrovascular Disease and Skull base Tumors. An International Interactive Lecture Series. University of Miami. June 18, 2020
36. Modern Skull Base Surgery: Functional Preservation Strategies: National Congress of Modern Neurosciences. Lasi, Romania November 5, 2020
37. Clival Chordoma: Surgeon’s Log 2020: Case Archives of the Skull Base and Beyond.   
    December 17, 2020
38. Vestibular Schwannoma Surgery: The Key to Long Term Functional Preservation.

Microsurgery Resurgence: Truth Told Webinar. December 19, 2020

70. Retrosigmoid Approach: EANS Cranial Step I. Geneva Switzerland, September 6,  
 2021

71. Far Lateral Approach: EANS Cranial Step I. Geneva Switzerland, September 6,  
 2021

72. The Combined Open and Endoscopic Approach to Petroclival Meningioma.  
 European Association of Neurosurgery (EANS) Annual Meeting, Hamburg, Germany October 6, 2021.

73. Acoustic Neuroma Management in the Modern Time: National Congress of Modern Neurosciences 2021. Bucharest, Romania October 15, 2021.

74. Minipterional Approach: 360-degree Skull Base Microscopic and Endoscopic Approaches: IRCAD, Strasbourg, France January 25-28, 2022.

75. Retrosigmoid Approach: 360-degree Skull Base Microscopic and Endoscopic Approaches: IRCAD, Strasbourg, France January 25-28, 2022.

76. Treatment Strategies for Petroclival Meningiomas: 360-degree Skull Base Microscopic and Endoscopic Approaches: IRCAD, Strasbourg, France January 25-28, 2022.

77. Endoscopic Endonasal Approaches to the Clivus: 360-degree Skull Base Microscopic and Endoscopic Approaches: IRCAD, Strasbourg, France January 25-28, 2022.

78. Anterior Petrosal Approach: 360-degree Skull Base Microscopic and Endoscopic Approaches: IRCAD, Strasbourg, France January 25-28, 2022.

79. Pterional, Orbitozygomatic and Pretemporal Transcavernous Approach: NASBS Meeting. Phoenix, AZ February 16-19, 2022

80. Recalcitrant Meningiomas: NASBS Meeting, Phoenix, AZ February 16-19, 2022

81. Clinical Outcomes in Large Vestibular Schwannomas with Brain stem/Middle Cerebellar Peduncle Edema: Should the Grading System be Modified?  
 14th Congress of European Skull Base Society Meeting, Riva del Garda,   
 Italy April 20-23,2022.

82. Olfaction as a Major Determinant of Approach Selection in Anterior Skull Base   
 Meningiomas. 14th Congress of European Skull Base Society Meeting, Riva del Garda, Italy April 20-23,2022.

83. Surgery of Vestibular Schwannomas: Functional Preservation Strategies. 14th Congress of European Skull Base Society Meeting, Riva del Garda, Italy April 20- 23,2022. Keynote Presentation  
  
 84. A Staged Combined Endoscopic and Open Approach to Petroclival Meningiomas  
 14th Congress of European Skull Base Society Meeting, Riva del Garda, Italy April 20-23,2022.

85. Jugular Foramen and Craniocervical Junction. 14th Congress of European Skull Base Society Meeting, Riva del Garda, Italy April 20-23,2022. Moderator

86. Dilemmas in Temporal Paragangliomas. 14th Congress of European Skull Base Society Meeting, Riva del Garda, Italy April 20-23,2022.

87. Anterior Clinoidectomy. Trilogia de Base de Craneo. 360 Degree Skull Base Course Parte 1. Mexico City, Mexico, May 19-22, 2022  
  
 88. Safe Entry Zones to the Cavernous Sinus. Trilogia de Base de Craneo Parte 1. 360 Degree Skull Base Course. Mexico City, Mexico, May 19-22, 2022

89. Cavernous Sinus Surgery: Recent Advances; 47th Congress of the Romanian   
 Society of Neurosurgery, Lasi, Romania. September 29th-October 1st, 2022

90. Hearing Preservation in Large Vestibular Schwannoma Surgery: World Federation   
 of Skull Base Surgery Webinar, September 20022

91. Challenging Skull base cases; Frontiers in Skull Base Surgery. Congress of Neurological Surgeons Meeting, San Francisco October 7-12th, 2022.

92. Extradural Anterior Clinoidectomy: Microscopic and Endoscopic Approaches to the Skull Base: IRCAD Strasbourg, France 23-27, 2023.

93. Far lateral Approach: Microscopic and Endoscopic Approaches to the Skull Base: IRCAD Strasbourg, France 23-27, 2023.

94. Minipterional Approach: Microscopic and Endoscopic Approaches to the Skull Base: IRCAD Strasbourg, France 23-27, 2023.

95. Seven Ages of Skull Base Surgery: Visiting Professor at Lariboisière, Université de   
 Paris Diderot, Paris, France February 3, 2023.

96. Vestibular Schwannoma Surgery: Functional Preservation Strategies. The 6th Annual   
 Winter Forum Meeting Steamboat, CO. University of Illinois Chicago.   
 February 11-15, 2023.

97. Defining cerebellopontine edema in vestibular schwannoma grade, a radiographic feature relevant to surgical outcomes. The 9th Quadrennial Conference on Vestibular Schwannoma and Other CPA Tumors. Bergen, Norway May 14-16, 2023.

98. Refining the predictive value of preoperative apparent diffusion coefficient (ADC) for clinical outcomes after vestibular schwannoma resection: a retrospective study of facial nerve function, length of stay and complications. The 9th Quadrennial Conference on Vestibular Schwannoma and Other CPA Tumors. Bergen, Norway May 14-16, 2023.

99. Nervus Intermedius Outcomes After Vestibular Schwannoma Surgery and Radiosurgery: A Single-Institution Experience. The 9th Quadrennial Conference on Vestibular Schwannoma and Other CPA Tumors. Bergen, Norway May 14-16, 2023.

100. Patterns of Hearing Preservation in Vestibular Schwannoma Surgery. (with Olivia Kalmonson): The 9th Quadrennial Conference on Vestibular Schwannoma and Other CPA Tumors. Bergen, Norway, May 14-16, 2023.

**Presentations:** National

1. The Parasellar Chordomas and Chondrosarcomas(with van Loveren HR) The Mayfield Clinic-Cleveland Clinic Winter Neuroscience Symposium, Snowmass, Colorado 2/2002 (invited)
2. Difficult Meningiomas (with van Loveren HR)   
   American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois 4/2002 (invited)
3. Correction of Adult Scoliosis Posterior Only Approach; (with Cahill DW)  
   Congress of the Neurological Surgeons, Philadelphia, Pennsylvania 9/2002 (invited)
4. Lumbar Revision Surgery: Management of Complications; (with Cahill DW)  
   Congress of the Neurological Surgeons, Philadelphia, Pennsylvania 9/2002 (invited)
5. Difficult Spine Lesions; (with Cahill DW)  
   Congress of the Neurological Surgeons, Philadelphia, Pennsylvania 9/2002 (invited)
6. Petroclival Meningioma: Current Management; (with van Loveren HR)  
   The 5th Annual Neuro-Oncology Current Concepts Symposium. The Cleveland Clinic Foundation. Walt Disney World Resort, Florida 1/2003 (invited)
7. Pituitary Adenomas: The Default Transcranial Approaches; (with Aggazzi and van Loveren) The North American Skull Base Society Meeting. New Orleans, Louisiana 2/2004 (invited)
8. Reconstructive Surgery of The Skull Base (with Sloan A)  
   The North American Skull Base Society Meeting. Phoenix, Arizona 2/2006 (invited)
9. The Subtemporal Approach to Trigeminal Schwannomas (with van Loveren)  
   Congress of the Neurological Surgeons. San Diego, California 9/2007 (invited)
10. Craniocervical Fixation with Occipital Condyle Screws: Biomechanical Analysis of a Novel

Technique (with Uribe JS) AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Phoenix, Arizona 9/2009

1. Management of Pineal Tumors: Congress of Neurological Surgeons Webinar 2009 (invited)
2. Posterior Clinoidectomy Dural tailoring Technique (Masters Video Session)  
   The XIV World Congress of Neurological Surgery: Boston, Massachusetts 8-9/2009
3. Managing Difficult Meningiomas: Congress of Neurological Surgeons annual meeting, The Young Neurosurgeons’ Tumor section. New Orleans, Louisiana 10/2009 (invited)
4. Paradoxical Trends In The Management Of Unruptured Cerebral Aneurysms In The United States (with Baaj A) AANS/CNS Cerebrovascular Section Scientific symposium II (Oral abstract) San Antonio, Texas 2/2010
5. The Multidisciplinary Team Approach to Craniofacial Lesions: Synthes CMF Advanced Anatomy Course, Westchester, Pennsylvania 4/2010 (invited)
6. Management of Craniofacial Lesions; The Age of Enlightenment: Synthes CMF Advanced Anatomy Course, Westchester, Pennsylvania 9/2010 (invited)
7. The Frontotemporal-Orbitozygomatic Approach: Reconstructive technique and Outcome: 21st North American Skull Base Meeting: Scottsdale, Arizona 2/2011
8. Extended Transoral Approach to the Craniovertebral Junction. Technical Note   
    21st North American Skull Base Meeting: Scottsdale, Arizona 2/2011
9. The Frontotemporal-Orbitozygomatic Approach: Reconstructive technique and Outcomes 62nd Southern Neurosurgical Society Meeting: Orlando, Florida 2/2011
10. Safe Exposure of the Vertebral Artery During Transcondylar Approach: Fifth Annual Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 10/2011, 10/20012, 11/2013 and 11/2014
11. Skull Base Approaches in Aneurysm Surgery: The 2nd Florida Aneurysm Workshop; University of Miami Miller School of Medicine, Miami, FL 11/2011
12. Acoustic Neuroma Treatment and Symptomatology: 25 Years Trend Based on Analysis of Patient Surveys from The Acoustic Neuroma Association. With J Patel, R. Vasan, S. Agazzi, JM Sweeney, C. Danner, H. van Loveren. The 22nd Annual North American Skull Base Society Meeting. Las Vegas, Nevada 2/2012.
13. Surgical Approaches to the Pineal Region: Sixth Annual Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 10/2011, 10/20012 and 11/2013
14. Brain Surgery: Back to The Future: University of Colorado 10/2013 (visiting professor)
15. Defining The Role Endoscopic Endonasal Techniques for Petrous Apex Approaches. North American Skull Base Society Meeting- San Diego 2/2014
16. Meningiomas and Skull Base Tumors: CNS SANS MOC Review Course, Orlando, FL 3/2014
17. Endoscopic-assisted Aneurysm Surgery: [Cutting-Edge and Future Technology in Ischemic and Hemorrhagic Stroke](https://www.cns.org/annual-meeting-2014/education/sessions/cutting-edge-and-future-technology-ischemic-and-hemorrhagic). The Congress of Neurological Surgeons Annual Meeting, Boston, MA 10/2014
18. Endoscopic Assisted Posterior Fossa Surgery: Annual Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA, 11/2014
19. Anterolateral Approaches to the Skull Base: The 1st Annual Course for Microscopic and Endoscopic Approaches to the Skull base, University of Colorado, Aurora 3/2015
20. Keyhole and Endoscopic Assisted Microsurgery to the Posterior Fossa: The 1st Annual Course for Microscopic and Endoscopic Approaches to the Skull base, University of Colorado, Aurora 3/2015
21. Endoscopic transnasal Surgery to the Clivus: The 2015 Keller Lectureship in Surgical Anatomy and Research: University of Cincinnati, OH 3/2015
22. Keyhole and Endoscopic Assisted Microsurgery: The 4th Annual Advanced Open and Endoscopic Techniques in Complex Skull Base Surgery, Mahwah, NJ 3/2015
23. Endoscopic and Microsurgical Approaches to Craniopharyngioma: 3rd Annual SLU Combined Ventricular and Skull Base Endoscopy Course: St Louis, Missouri. Course Faculty, August 27-30th, 2015
24. Endoscopic-assisted Aneurysm Surgery: Congress of Neurological Surgeons Meeting, New Orleans, Louisiana 9/2015
25. Endoscopic Assisted Posterior Fossa Surgery: Annual Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA, 11/2015
26. Posterolateral Exposure of the Vertebral Artery: Annual Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA, 11/2015
27. Petroclival Meningioma: Modernistic view. North American Skull Base Society 26th Annual Meeting Scottsdale, AZ Feb. 12-14, 2016
28. Surgical Exposure of the Cavernous Sinus. The 2nd Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO 2-5/2016.
29. Modern Skull Base Practice: Original or Derived Intentionality. Grand Rounds at Rutgers University. 10/2016
30. Olfactory Groove Meningioma: What is the Best Practice for Olfaction Preservation. 10th Annual Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA, 11/2016
31. Far lateral Approach: North American Skull Base Society 27th Annual Meeting  
    March 3-5, 2017 - New Orleans, LA.
32. Benign Cavernous Sinus Tumors: Can We Agree on Management? North American  
     Skull Base Society 27th Annual Meeting March 3-5, 2017 - New Orleans, LA. Session

moderator

1. Complications in Skull Base Surgery: Avoidance and Management. Expert Debate.

North American Skull Base Society 27th Annual Meeting March 3-5, 2017 - New Orleans, LA. Session Panelist.

1. The Orbitozygomatic Approach: The 3rd Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO 3/2017.
2. Endoscopic Endonasal Approach to the Petroclival Region: The 3rd Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO 3/2017.
3. The Petrosal Approach: North American Skull Base Society Summer Course   
    July 6-9, 2017 at LSU - New Orleans, LA.
4. The Art of Mobilization of the Lateral Wall of the cavernous Sinus: 11th Annual Endoscopic and Microscopic Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 11/2017
5. Endoscopic Approaches to the Lateral Skull Base: Infrapetrous. 11th Annual Endoscopic and Microscopic Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 11/2017
6. Preservation of Olfaction in Anterior Skull Base Meningiomas: What is the Best Strategy? 11th Annual Endoscopic and Microscopic Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 11/2017
7. The Extended Middle Fossa Approach. The 28th Annual North American Skull Base Society Meeting, San Diego February 14-18th, 2018
8. The Far Lateral Approach. The 28th Annual North American Skull Base Society Meeting, San Diego February 14-18th , 2018
9. Endoscopic Endonasal Resection of Schwannoma of the Pterygopalatine Fossa. The 28th Annual North American Skull Base Society Meeting, San Diego February 14-18th
10. The Art of Mobilizing the Lateral Wall of the Cavernous Sinus: The 4th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO March 14-17/2018.
11. Endoscopic Approaches to Anterior Midline Skull Base meningiomas: The 4th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO March 14-17/2018.
12. Hearing Preservation in Medium Size Vestibular Schwannoma. The Brigham Symposium/Harvard Medical School. September 2018.
13. FTOZ Applications and Pearls. The 12th Annual Endoscopic and Microscopic Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 11/2018
14. Olfactory Groove meningiomas. The 12th Annual Endoscopic and Microscopic Skull Base Surgery Course; Allegheny General Hospital, Pittsburgh, PA 11/2018
15. Orbitozygomatic Approach: The 5th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO March 13-16/2019.
16. Surgical Exposure of the Cavernous Sinus: The 5th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO March 13-16/2019.
17. The Far Lateral Approach: The 5th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO March 13-16/2019.
18. Midline Skull Base Meningiomas: A Comprehensive Approach. The 5th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO March 13-16/2019.
19. Endoscopic Approaches to Craniopharyngioma: The 5th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO March 13-16/2019.
20. Endoscopic Approaches to the Petroclival Region: The 5th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO March 13-16/2019.
21. Anterior Petrosectomy for Upper Petroclival meningioma. Latest Breakthroughs for Meningiomas Surgery Radiosurgery. AANS 2019 San Diego, CA
22. Aneurysms, Bypass and Moyamoya: Evandro de Olivera Symposium. AANS 2019 San Diego, CA April 11-12, 2019
23. Modern Skull Base Surgery: Cranial Nerves Preservation Strategies. AANS 2019   
    San Diego, CA April 13-17, 2019
24. Surgical Approaches to the Cavernous Sinus: First Annual Carle Illinois Microsurgery & Endoscopy Hands on Cadaver Course. Champaign, Il 8/29-31, 2019
25. Craniopharyngioma: First Annual Carle Illinois Microsurgery & Endoscopy Hands on Cadaver Course. Champaign, Il 8/29-31, 2019
26. Giant Olfactory Groove Meningioma: Is Bifrontal Approach Obsolete? Brigham and Women’s Cerebrovascular and Skull Base Symposium at Harvard Medical School: Boston, MA October 5th, 2019
27. Cranial Nerve Preservation Strategies: CNS Meeting San Francisco, CA 10/2019
28. Contemporary Skull base Surgery: Functional Preservation Strategies  
    Barrow Neurological Institute 7/31/2020
29. The Orbitozygomatic Approach: CNS Skull Base Fellows Course. December 3, 2020
30. Anterior Petrosectomy Approach: Stryker Endoscopic and Microscopic Approaches to the Skull Base, Mahwah, NJ; July 9-10, 2021
31. Far Lateral Approach: Stryker Endoscopic and Microscopic Approaches to the Skull Base, Mahwah, NJ; July 9-10, 2021
32. Orbitozygomatic Approach and Variations: Skull Base and Open Cerebrovascular Surgery Course-Stryker. Salt Lake City, Utah September 8-12, 2021
33. Simple Middle Fossa Approach:Skull Base and Open Cerebrovascular Surgery Course-Stryker. Salt Lake City, Utah September 8-12, 2021
34. Combined Open and Endoscopic Approaches to the Jugular Foramen: Skull Base and Open Cerebrovascular Surgery Course-Stryker. Salt Lake City, Utah September 8-12, 2021
35. Recurrent Petroclival Meningioma in Recurrent Meningioma Management: Operative Technique and Case-based Discussions. CNS Annual Meeting Austin TX, October 19, 2021.
36. Surgical Approaches to the Cavernous Sinus: The 6th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO. November 3-6, 2021.
37. Endoscopic Endonasal Approaches to the Lateral Skull Base: The 6th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO. November 3-6, 2021.
38. Surgical Approaches to the Jugular Foramen: The 6th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO. November 3-6, 2021.
39. Seven Ages of Skull base Surgery: Thomas Jefferson University Department of Neurosurgery Grand Rounds. March 18, 2022.
40. Endoscopic Endonasal Approaches to the Petrous/Petroclival Region: Mayo Clinic Grand Rounds. Rochester, MN April 11, 2022
41. Transpetrosal Approaches: Stryker Skull base Course; Salt Lake City, Utah. August 2022
42. Endoscopic Approaches to the lateral Skull base: Stryker Skull base Course; Salt Lake City, Utah. August 2022
43. Petroclival Meningiomas: The 7th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO. November 16-19, 2023.
44. Jugulotympanic Paraganglioma: The 7th Annual Microscopic and Endoscopic Skull Base Course; University of Colorado Denver, CO. November 16-19, 2023.
45. Olfaction in Anterior Skull Base Meningiomas: The Neglected Sense. Pacific Rim Master Class in Endoscopic Endonasal and Keyhole Surgery: Pacific Neuroscience Institute & University of Colorado. March 24-26, 2023. Santa Monica, CA
46. Combined Open and Endoscopic Approaches to Lateral Skull Base. Pacific Rim Master Class in Endoscopic Endonasal and Keyhole Surgery: Pacific Neuroscience Institute & University of Colorado. March 24-26, 2023. Santa Monica, CA

**National Events Host:** SANS ResidentsChallenge: CNS Annual Meeting  
 2017-Present

**Presentations:** Posters

1. Restoration of CNS Compliance after a Third Ventriculo-cisternostomy: Allegheny University 2nd Annual Research Conference, Philadelphia, PA 10/1997
2. Sudden Blindness as a Complication of Percutaneous Trigeminal Procedures: Mechanism Analysis and Prevention. (Poster with Agazzi A and van Loveren HR): The American Association of Neurological Surgeons, New Orleans, Louisiana 4/2005
3. Application of Computer-Assisted Endoscopy to Biopsy Pineal Tumors: Congress of neurological Surgeons, Chicago, Illinois 10/2006
4. Posterior Clinoidectomy: The Dural Tailoring Technique: Congress of the Neurological Surgeons. San Diego, California 9/2007
5. Vagal nerve Stimulation After Failed Temporal Lobectomy: The American Association of Neurological Surgeons (AANS), San Diego, California 5/2009
6. Managing the Difficult Meningiomas in the First Year of Complex Cranial Practice: Joint Meeting of the Society for Neuro-Oncology and the AANS/CNS Section On Tumors, New Orleans, Louisiana 10/2009
7. Interfascial Technique for Vertebral Artery Exposure in the Suboccipital Triangle: Congress of Neurological surgeons annual meeting, New Orleans, Louisiana 10/2009
8. Life Without the vein of Galen: Clinical and Radiographic Sequelae: Congress of Neurological Surgeons Annual Meeting, San Francisco, California 10/2010
9. The Frontotemporal-Orbitozygomatic Approach: Reconstructive technique and Outcome: Congress of Neurological Surgeons Annual Meeting, San Francisco, California 10/2010
10. Combined Subgaleal-myocutaneous Technique for Temporalis Muscle Dissection; Congress of Neurological Surgeons Annual Meeting, Washington, DC 10/2011
11. Intraventricular Meningiomas: Surgical Approaches and Outcome; Congress of Neurological Surgeons Annual Meeting, Washington, DC 10/2011
12. Transnasal Completely Endoscopic Resection of Pituitary Tumors Using a Binostril, Fourhanded Technique While Preserving The potential for Nasoseptal Flap Reconstruction: The Subseptal Approach: with J. Sweeney, M Tam, JT May, R Vasan, S. Agazzi, H van Loveren, M. Tabor. The 22nd Annual North American Skull Base Society Meeting. Las Vegas, Nevada 2/2012.
13. Unilateral Tailored Fronto-orbital Approach for Giant Olfactory Groove Meningiomas: Poster of Distinction. North American Skull Base Society 26th Annual Meeting Scottsdale, AZ Feb. 12-14, 2016
14. Unilateral Endonasal Transcribriform Approach for Olfaction Preservation in Olfactory Groove Meningiomas. North American Skull Base Society 27th Annual Meeting March 3-5, 2017 - New Orleans, LA.
15. Expanding the Endoscopic Transpterygoid Approach to Petroclival Region: Volumetric Comparative Analysis. North American Skull Base Society 27th Annual Meeting March 3-5, 2017 - New Orleans, LA.
16. Keyhole endoscopic assisted microsurgery to the posterior fossa. The European Association of Neurosurgical Societies EANS Meeting. Brussels, Belgium October, 2018.
17. Unilateral endoscopic trancribriform approach with septal mobilization for preservation of olfaction in olfactory groove meningioma. The European Association of Neurosurgical Societies EANS Meeting. Brussels, Belgium October, 2018.
18. The effect of preoperative ligation of ethmoidal arteries on the perioperative outcomes of large anterior skull base meningiomas: a clinical study. The European Association of Neurosurgical Societies EANS Meeting. Brussels, Belgium October, 2018.
19. A Single Endoscopic Keyhole Approach to Extensive Multicompartment Skull base Epidermoid Tumor: E-poster EANS Meeting, Dublin 9/2019
20. Impact of Vestibular Nerve Preservation on Facial and Hearing Outcomes in Small to Medium Vestibular Schwannoma Surgery. The 9th Quadrennial Conference on Vestibular Schwannoma and Other CPA Tumors. Bergen, Norway, May 14-16, 2023.
21. Hydroxyapatite Cement Cranioplasty for Reconstruction of Translabyrinthine Approach: Aesthetic Results, Long Term Satisfaction, Quality of Life, and Complications. The 9th Quadrennial Conference on Vestibular Schwannoma and Other CPA Tumors. Bergen, Norway, May 14-16, 2023.

**Presentations:** **Local**

1. Posterior Fossa Meningiomas: Essay for the partial fulfillment of the M.Sc Degree in Surgery. Ain Shams University, Cairo, Egypt 1995
2. Altered CSF Dynamics in Early Shunted Hydrocephalus.Thesis submitted for the partial fulfillment of the Doctorate Degree (PhD) in Neurosurgery. Ain Shams University, Cairo Egypt 2000
3. Surgical Exposure of Upper Basilar Artery Aneurysms: Mayfield Clinic, Cincinnati, Ohio 11/2001
4. Pineal Tumors; A New Technique for Biopsy: Mayfield Clinic, Cincinnati, Ohio 4/2002
5. Transcranial Surgery for Pituitary Adenomas: Department of Neurosurgery Grand Rounds, University of South Florida, Tampa, Florida 11/2004
6. Transcondylar Approach: The 2nd Annual Masters Skull Base Course, Tampa, Florida 1/2004
7. The Anterolateral Approaches: The 3rd Annual Masters Skull Base Course, Tampa, Florida 1/2005
8. Posterior Fossa Surgery: Combined Grand Rounds Neurology/Neurosurgery, University of South Florida, Tampa, Florida 10/2006
9. Surgical Approaches to the Cavernous Sinus: The 4th Annual Masters Skull Base Course, Tampa, Florida 1/2006
10. The Frontotemporal-orbitozygomatic Approach: The 5th Annual Masters Skull Base Course, Tampa, Florida 1/2007
11. Management of Subarachnoid Hemorrhage: Neuro ICU Nurses lecture 4/2007
12. The Fronto-temporal-Orbitozygomatic Approach: The 6th and 7th Annual Skull Base Courses, Tampa, Florida 2008/2009
13. Management of Difficult Meningiomas: CME Lecture 3/2009
14. The Multidisciplinary Team Approach to Craniofacial Lesions: The 1st Annual Advances in Skull base Surgery and Medicine: University of South Florida CME course at Tampa General Hospital 11/2009
15. The Clinical Significance of an Audible Bruit: Neurological and Neurosurgical Therapeutics: CME course,  
    Hyatt Regency, Tampa, Florida 5/2010
16. Guidelines for Management of Subarachnoid Hemorrhage: Lecture to ICU nurses at St. Joseph’s Hospital 8/2010
17. The Clinical Significance of an Audible Bruit: CME Lecture St Petersburg, Florida 11/2010
18. Management of Difficult Meningiomas: The 2nd Annual Advances in Skull base Surgery and Medicine: University of South Florida CME course. Hyatt Regency, Tampa General Hospital 11/2010
19. Lateral Suboccipital Approaches: The 9th Annual Masters Course of Skull Base Surgery, Tampa, Florida 2/2011
20. Surgical Exposure of the Cavernous Sinus: The 9th Annual Masters Course of Skull Base Surgery, Tampa, Florida 2/2011
21. The Far Lateral Approach: The 10th Annual Masters Course of Skull Base Surgery, CAMLS Center, Tampa, Florida 2/2012
22. Transcranial Neuro-endoscopy: The 10th Annual Masters Course of Skull Base Surgery, CAMLS Center, Tampa, Florida 2/2012
23. Minimally Invasive Brain Surgery: CME course, Tampa, Florida 5/2012.
24. Cranial endoscopy: The Fantastic Voyage; The 2nd Annual Neurological and Neurosurgical Therapeutics Meeting, CAMLS Tampa, Florida 5/2012
25. Skull Base Approaches in Aneurysm Surgery: Is It a Lost Art?: Florida Neurosurgical Society; The Breakers Hotel, West palm, Florida 8/2012
26. Minimally Invasive Surgery for Trigeminal Neuralgia: CME course Tampa Florida 4/2013
27. Vascular Neurosurgery: The Evolution. Florida Neurosurgical Society; The Breakers Hotel, West palm, Florida 8/30-9/1/2013
28. The Minimally Invasive Approach to Trigeminal Neuralgia: University of Colorado, Aurora, CO 4/2015
29. The Multidisciplinary Management of Head & Neck Cancer: Grand Rounds at Rose Hospital, Denver, CO 8/2015
30. The Multidisciplinary Management of Head & Neck Cancer: Boulder Community Health, Boulder, CO 11/13/2015
31. Complex Brain Surgery: Back to the Future. Good Samaritan Hospital, Boulder, CO.   
    4/2016
32. Pituitary Adenoma Surgery: Department of Otolaryngology University of Colorado Grand Rounds. Denver, CO 4/14/2017
33. Craniopharyngiomas and Rathke’s Cysts: One day Pituitary Awareness Conference at University of Colorado. May 13th, 2017
34. Olfaction Preservation in Midline Skull Base Meningiomas: The Missing Concept.  
    Department of Neurosurgery, University of Colorado Grand Rounds. Denver, CO 6/13/2017
35. Modern Skull Base Surgery: Initial or derived Intentionality?   
    Department of Neurosurgery, University of Colorado Grand Rounds. Denver, CO 11/28/2017
36. Surgical Approaches to Pituitary Macroadenoma and Craniopharyngioma: One day Pituitary Awareness Conference at University of Colorado. June 2nd, 2018
37. Endoscopic Approaches to Lateral Skull Base. Neurosurgery Grand Rounds University of Colorado November 20, 2018
38. Skull Base Surgeon of the Future: The Law of Nature. Neurosurgery Grand Rounds University of Colorado November 27, 2018
39. Vestibular Schwannoma Surgery: Functional Preservation Strategies  
    University of Colorado March 31, 2020
40. The Multiportal Approach to Complex Lateral Skull Base Lesions: A Novel Concept

University of Colorado June 9, 2020

41. Surgery of the Lateral Skull Base in the Modern Time: University of Colorado 10/2021

**Published Abstracts**

1. Mazuchowski EL, Thibault KL, Youssef AS, Kurtz SM, Barbee KA, Thibault LE :Structural and Mechanical Properties of the Developing Human Skull with Numerical Simulation during Impact Loading. Proceeding of the 9th Annual CDC/Wayne State Symposium on Biomechanical Research. May 1997
2. Runge C, Youssef AS, Kurtz S, Magram G, Thibault LE :Material Properties of Human Infant Skull: Experiments and Numerical Analysis. The 8th Injury Prevention through Biomechanics Symposium, Wayne State, May 1998
3. Agazzi S, Chang S, Drucker MD, Youssef AS, van Loveren HR, Sudden Blindness as a Complication of Percutaneous Trigeminal Procedures: Mechanism Analysis and Prevention. Journal of Neurosurgery 2005
4. Youssef A S, Keller J T, van Loveren H R: Application of Computer-Assisted Endoscopy to Biopsy Pineal Tumors: Congress of the Neurological Surgeons. Chicago 10/2006
5. Youssef AS, van Loveren: Posterior Clinoidectomy: The Dural Tailoring Technique:

Congress of the Neurological Surgeons. San Diego 9/2007

1. Youssef A S, Agazzi S, van Loveren: Transclinoidal Exposure of Basilar Artery. Skull Base: An Interdisciplinary Approach 2008
2. Agazzi S, Youssef A S: Percutaneous Approach to The Skull Base: Complication Avoidance and Management: Skull Base: An Interdisciplinary Approach 2008
3. Youssef A S, Vale F: Vagal nerve Stimulation After Failed Temporal Lobectomy. Journal of Neurosurgery 2009
4. Ramos EZ, Uribe JS, Youssef AS, Levine N, Vale F: Craniocervical Fixation with Occipital Condyle Screws: Biomechanical Analysis of a Novel Technique (with Uribe JS) AANS/CNS Section on Disorders of the Spine and Peripheral Nerves 1/2009
5. Huong M, Baaj A, Downes K,Youssef AS, Sauvageau E, van Loveren HR, Agazzi A: Paradoxical Trends In The Management Of Unruptured Cerebral Aneurysms In The United States AANS/CNS Cerebrovascular Section, San Antonio, TX 2/2010
6. Olivera R, Willard L, Downes A, Hall K, Agazzi A, van Loveren H R, Youssef A S: The Frontotemporal-Orbitozygomatic Approach: Reconstructive technique and Outcome. Skull Base: An Interdisciplinary Approach 2011
7. Olivera R, Uribe J S, Sloan A,Youssef A S: Extended Transoral Approach to the Craniovertebral Junction. Technical Note. Skull base: An Interdisciplinary Approach 2011
8. Olivera R, Willard L, Downes A, Hall K, Agazzi A, van Loveren H R, Youssef A S:The Frontotemporal-Orbitozygomatic Approach: Reconstructive technique and Outcome. 62nd Southern Neurosurgical Society Meeting Orlando, FL 02/2011.
9. Youssef AS, Downes AE, Al-Bahy K, Kotb K, Vale F, van Loveren H: Intraventricular Meningiomas: Two Centers Experience and lessons Learned. Congress of Neurological Surgeons, Washington, DC 10/2011.
10. J. Patel, R. Vasan, S. Agazzi, JM Sweeney, C. Danner, AS Youssef, H. van Loveren. Acoustic Neuroma Treatment and Symptomatology: 25 Years Trend Based on Analysis of Patient Surveys from The Acoustic Neuroma Association. With. Thieme; Skull Base Vol. 22, Suppl. 1, 2/2012
11. Defining The Role Endoscopic Endonasal Techniques for Petrous Apex Approaches. North American Skull Base Society Meeting- San Diego 2/2014
12. Sampath R, Downes A, Freeman J, Lillehei K, Youssef AS: Unilateral Tailored Fronto-orbital Approach for Giant Olfactory Groove Meningiomas: Poster of Distinction. Journal of Neurological Surgery Skull Base Part B. N.51 Vol 77, P S1-S122, Feb. 2016
13. Craniopharyngioma: Modernistic View. 7th International Congress of the World Federation of Skull Base Societies (WFSBS) and 28th Annual Meeting of Japanese Society for Skull Base Surgery (JSSBS) Jun 14 - 17, 2016. [Osaka-shi](https://www.emedevents.com/geo-conferences/japan/osaka/osaka-shi), [Osaka](https://www.emedevents.com/geo-conferences/japan/osaka)
14. Surgery of the Pineal Region: Meningiomas: 7th International Congress of the World Federation of Skull Base Societies (WFSBS) and 28th Annual Meeting of Japanese Society for Skull Base Surgery (JSSBS) Jun 14 - 17, 2016. [Osaka-shi](https://www.emedevents.com/geo-conferences/japan/osaka/osaka-shi), [Osaka](https://www.emedevents.com/geo-conferences/japan/osaka)
15. Carr S, Sampath R, Freeman JL, Mattingly JK, Ramakrishnan VR., **Youssef AS**: Unilateral Endonasal Transcribriform Approach with Septal Transposition for Olfactory Groove Meningioma: Can Olfaction be Preserved? Journal of Neurological Surgery-Part B, Vol. 78, Suppl.S1/2017.
16. **A Samy Youssef,** Jacob L. Freeman, Steven C. Quattlebaum, Vijay Ramakrishnan, Ciro vasquez: Expanding the Endoscopic Transpterygoid Corridor to Petroclival Region: A Volumetric Comparative Analysis. Journal of Neurological Surgery-Part B, Vol. 78, Suppl.S1/2017.
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21. Philip Tatman,  Tadeusz Wroblewski,  Anthony Fringuello,  Sam Scherer,  William Foreman, Denise Damek, **A. Samy Youssef**,  Kevin Lillehei,  David Ormond,  Michael Graner. DDRE-10. SCREENING OF EPIGENETIC COMPOUNDS IN GLIOMA AND GLIOBLASTOMA IDENTIFIES NOVEL THERAPEUTICS FOR THEIR POTENTIAL TREATMENT. Neuro-Oncology, Volume 23, Issue Supplement\_6, November 2021, Page vi76.
22. Tadeusz Wroblewski,  Philip Tatman,  Anthony Fringuello,  Sam Scherer,  William Foreman, Denise Damek, **A. Samy Youssef**,  Kevin Lillehei,  David Ormond,  Michael Graner. DDRE-20. HIGH-THROUGHPUT SCREENING OF FDA-APPROVED COMPOUNDS IN GLIOMA AND GLIOBLASTOMA IDENTIFIES NOVEL THERAPEUTICS. Neuro-Oncology, Volume 23, Issue Supplement\_6, November 2021, Page vi78
23. Tadeusz H. Wroblewsk, Philip D. Tatman, Anthony R. Fringuello, Samuel S. Scherer, William B. Foreman, Denise M. Damek, Kevin Lillehei, Randy L. Jensen, **A. Samy Youssef,** D. R. Ormond, Michael Graner. DNA Methyl Transferase Inhibition in Meningiomas. J Neurol Surg B Skull Base 2022; 83(S 01): S1-S270. DOI: 10.1055/s-0042-1743634
24. Philip D. Tatman, Tadeusz Wroblewski, Anthony Fringurello, Sam Scherer, Will Foreman, Denise Damek, Kevin Lillehei, **A. Samy Youssef**, Ryan Ormond, Michael Graner. High-Throughput Screening of FDA-Approved Compounds, Validated with Three Separate Xenograft Models, Identifies Brigatinib as a Potential Treatment for Recurrent and Metastatic Chordomas. J Neurol Surg B Skull Base 2022; 83(S 01): S1-S270. DOI: 10.1055/s-0042-1743627
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    DOI: 10.1055/s-0042-1743747

**Visiting Professor**

1. Department of Neurosurgery, University of Colorado School of Medicine. Denver, CO. Grand Rounds October 8th, 2013
2. Department of Neurosurgery, Ain Shams University, Cairo, Egypt. Grand Rounds   
   February 6th, 2014
3. Department of Neurosurgery, Rutgers University, Newark NJ. Grand Rounds October 6th, 2016
4. The 5th Fukuoka International Neurosurgical Symposium. Fukuoka, Japan 1, April 2017
5. Kochi Atago Hospital. Kochi, Japan 2, April 2017.
6. Punan Hospital. Shanghai, China 8, April 2017
7. King Chulalongkorn University Medical Center, Bangkok, Thailand.   
   December 27-29, 2017.
8. Kagoshima University. Kagoshima, Japan 7/19/2018
9. Kushiro Kojinkai Memorial Hospital. Kushiro, Japan 7/27/2018
10. Ohno Memorial Hospital. Sapporo, Japan 7/28/2018
11. Department of neurosurgery, University of Copenhagen. Copenhagen, Denmark May 9, 2019.
12. Department of Neurosurgery Barrow Neurological Institute. Phoenix, AZ July 3, 2020
13. Thomas Jefferson University Department of Neurosurgery. March 17-18, 2022
14. Mayo Clinic; Rochester, MN. Departments of Neurosurgery and Otolaryngology.

April 11-12, 2022

1. Lariboisière Hôpital, Université de Paris Diderot. Paris, France   
   February 3, 2023.

**Professional memberships**

Frank H. Mayfield Society Member, 2002-Present

American Association of Neurological Surgeons (AANS), 2008-Present

Congress of Neurological Surgeons (CNS), 2008-Present

North American Skull Base Society (NASBS), 2011-Present

National Academy of Inventors (NAI), 2012-Present

European Association of Neurosurgery EANS 2018-Present

World Federation Skull Base Committee WFNS 2022-Present

**Ad hoc Reviewer**

Journal of Clinical Anatomy  
  
Neurosurgery

Frontiers in Surgery

Surgical Neurology International

World Neurosurgery

Ophthalmic Plastic and Reconstructive Surgery (OPRS)

Acta Neurochirurgica

JNLS-B

**Editorial**:  
Neurosurgery: Editor; SANS Neurosurgery 11/2012 - 6/2015

SANS: 2009-Present

SANS: 2016-Present. Cerebrovascular section advisor.

CNS University Editorial Board: Vice chair of Cerebrovascular 2013 – 2017  
 Chair of Cerebrovascular 2017-Present

Frontiers in Surgery

Skull Base: Operative Videos. JNLS-B Elsevier  
 Associate editor 2018-Present

Acta Neurochirurgica: 2019-present