

PRELIMINARY PROGRAM

2020 Tumor Section Satellite Symposium

Neurosurgical Oncology **2020:**
A Vision for the Future

JOIN US!

Register now at cns.org/tumor

Advance Registration: August 12, 2020

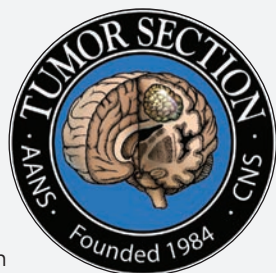
September 11–12, 2020 | Miami, Florida
cns.org/tumor



Jointly provided by the Congress of Neurological Surgeons
and the Joint Section on Tumors



American
Association of
Neurological
Surgeons



Dear colleague,

We're excited to invite you to Miami on **September 11–12, 2020**, for the Tumor Section's 15th Biennial Satellite Symposium, which immediately precedes the 2020 CNS Annual Meeting. Our meeting theme this year is **Neurosurgical Oncology 2020: A Vision for the Future**.

Join us at this two-day symposium for engaging scientific sessions that explore technological advances in neurosurgical neuro-oncology, including tumor microenvironment and spinal oncology. We will also focus on neurosurgeons as clinical scientists and managing recurrence in neuro-oncology.

Breakout sessions for residents, fellows, and young attendings address topics such as tips for the first three to five years of practice, endoscopic skull base surgery, and incorporating technology in neuro-oncology. Be sure to catch the best original science with four select oral abstract presentations and discussions. We're also pleased to offer industry-sponsored breakfast and lunch symposia.

We are thrilled to welcome our 2020 Keynote Speaker, Jennifer Esposito, vice president and leader of the health business unit at Magic Leap. Magic Leap is an augmented reality and spatial computing company at the forefront of using AR technology to transform healthcare. Esposito has over 20 years of experience in the global healthcare IT, medical device, biotechnology, health and life sciences industries. She has a graduate degree from Dartmouth Institute for Health Policy and Clinic Practice at Dartmouth College where she focused on Epidemiology and Biostatistics. She also advises multiple start-up companies focused on digital health, biotechnology, VR and artificial intelligence.

Don't miss the 32nd Anniversary Gala, which takes place on Friday evening at 1 Hotel South Beach, and it is the perfect oceanfront setting to mingle with colleagues and friends. The Tumor Section's Career Awards will be presented for: distinguished service (The Mark Rosenblum Distinguished Service Award), career accomplishments (The Charles B. Wilson Award), and mentoring (The Andrew T. Parsa Mentorship Award), along with certificates for best oral and poster presentations from the open abstract sessions during the day. On Saturday afternoon, the program will transition into the honored guest symposium highlighting the career of Edward R. Laws Jr.

The Tumor Section Satellite Symposium takes place at the Miami Beach Convention Center in the heart of South Beach. Take time to explore South Beach's Art-Deco District, enjoy views of the beautiful white sand beaches, or take a stroll down Lincoln Road for dining and shopping options. You'll also want to visit the Vizcaya Museum and Gardens to explore its beautiful architecture, grounds, or take in murals of street art through the Wynwood district where artists from around the world have created more than 40 dazzling pieces of stunning art on building sides.

We encourage you to stay for the 2020 CNS Annual Meeting, **September 12–16**, for more CME and networking with colleagues. Register for both meetings and receive an automatic **\$200** off of your combined registration fees.

We look forward to seeing you in Miami!

WHY YOU SHOULD ATTEND

WHO SHOULD ATTEND

Tumor neurological surgeons, residents, fellows, medical students, nurse clinicians, and physician assistants are welcome and encouraged to attend the Tumor Section Satellite Symposium. Educational sessions are directed toward these audiences and directly apply to their practices.

SYMPOSIUM DESCRIPTION

This symposium will explore technological advances in neurosurgical neuro-oncology, including tumor microenvironment and spinal oncology. It will also focus on neurosurgeons as clinical scientists and managing recurrence in neuro-oncology.

MEETING LEARNING OBJECTIVES

Upon completion of this symposium, participants will be able to:

- Discuss advancements in technology and brain tumor science and relevance to treatment approaches and outcome.
- Develop innovative treatment strategies for patients with brain and spine tumors at diagnosis and recurrence.
- Discuss advances in the evaluation and management of pituitary disease.
- Recognize opportunities to develop as clinician-scientists.

ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Congress of Neurological Surgeons and the Tumor Section . The Congress of Neurological Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

CME DESIGNATION STATEMENT

The Congress of Neurological Surgeons designates this Live Activity for a maximum of 13 AMA PRA Category 1 Credit(s)[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



SECTION CHAIR



Jason Sheehan

Jason P. Sheehan
University of Virginia
Charlottesville, VA

MEETING CHAIR



M. Vogelbaum

Michael A. Vogelbaum
Moffitt Cancer Center
Tampa, FL

MEETING CHAIR



I. Dunn

Ian F. Dunn
University of Oklahoma
Health Sciences Center
Oklahoma City, OK

REGISTER FOR BOTH

2020 Tumor Section Satellite Symposium and the 2020 CNS Annual Meeting
and receive an automatic **\$200 off** of your combined registration!

Please email meetings@cns.org with any questions on this special offer.

FRI

SEPTEMBER 11

9:00–11:30 am
General Session 1: Spinal Oncology
Speakers: Mark H. Bilsky, John H. Chi, Ziya L. Gokaslan, George I. Jallo, Nam D. Tran

9:00–9:04 am
Introduction to the Tumor Section Satellite Symposium
Jason Sheehan

9:05–9:14 am
Opening Remarks
Ian F. Dunn, Michael E. Ivan, Michael A. Vogelbaum

9:15–9:26 am
Spinal Oncology: Overview, Primary, Mets, SC Tumors
John H. Chi

9:27–9:38 am
Metastatic Spinal Tumors: Classification, Stabilization Scoring, Prognosis
Ziya L. Gokaslan

9:39–9:50 am
Metastatic Spine Treatment: Surgery, Radiation
Mark H. Bilsky

9:51–10:02 am
Novel Treatment Strategies for Spine Mets
Nam D. Tran

10:03–10:15 am
Intramedullary Spinal Cord Tumors
George I. Jallo

10:15–11:00 am
Break with Exhibitors

KEYNOTE SPEAKER

11:00–11:30 am
Jennifer Esposito
Magic Leap

Jennifer Esposito is vice president of the health business unit at Magic Leap, a technology company at the forefront of using spatial computing to transform health. Esposito has over 20 years of experience in the global healthcare IT, medical device, biotechnology, health and life sciences industries. She has a graduate degree from Dartmouth Institute for Health Policy and Clinic Practice at Dartmouth College where she focused on Epidemiology and Biostatistics. Prior to Magic Leap Jennifer led the Health and Life Sciences group at Intel Corporation and spent most of her earlier career at GE Healthcare in their Interventional Radiology and Cardiology business.



11:30 am–12:10 pm
Abstract Session 1: Selected Oral Abstract Presentations
Moderators: Jennifer Moliterno Gunel, Pablo F. Recinos, Nam Duy Tran

12:10–1:15 pm
Non-CME Sponsored Lunch Sessions

1:15–2:15 pm
General Session 2: Tumor Microenvironment
Speakers: Nduka M. Amankulor, Wenya Linda Bi, Gavin P. Dunn, Michael Lim

1:15–1:26 pm
Cellular Heterogeneity and Tumor Microenvironment
Michael Lim

1:27–1:38 pm
Low-Grade Glioma: Immune Escape
Nduka M. Amankulor

1:39–1:50 pm
High-Grade Glioma: Immunogenomics
Gavin P. Dunn

1:51–2:02 pm
Metastases: Seed vs. Soil
TBD

2:03–2:15 pm
Meningioma: Immune Landscape
Wenya Linda Bi

2:15–3:00 pm
Break with Exhibitors

3:00–5:00 pm
Abstract Session 2: Selected Oral Abstract Presentations
Moderators: John H. Chi, Michael A. Vogelbaum, Isaac Yang

Breakout Sessions for Residents, Fellows, Medical Students and Young Attendings

5:00–6:00 pm
Breakout Session 1
Tips for the First 3-5 Years of Practice
Speakers: Frederick G. Barker, Jennifer A. Moliterno Gunel, Carl B. Heilman, Ricardo J. Komotar

5:00–5:11 pm
What I Wish I Had Known When I Started My Practice
Jennifer A. Moliterno Gunel

5:12–5:23 pm
Building a Relationship with Community Physicians
Ricardo J. Komotar

5:24–5:35 pm
Finding Your Niche
Frederick G. Barker

5:36–5:47 pm
Submitting Cases/Preparing for Oral Boards
Carl B. Heilman

5:48–6:00 pm
Discussion

5:00–6:00 pm
Breakout Session 2
Endoscopic Skull Base Surgery
Speakers: Chad A. Glenn, Tyler J. Kenning, Pablo F. Recinos, Nathan T. Zwagerman

5:00–5:11 pm
What to Look for in Training
Chad A. Glenn

5:12–5:23 pm
Building the Practice from the Ground Up
Nathan T. Zwagerman

5:24–5:35 pm
Becoming a Hybrid Surgeon: Lessons in Reconstruction
Tyler J. Kenning

5:36–5:47 pm
Responsible Resident and Fellow Training in Endoscopic Skull Base Surgery
Pablo F. Recinos

5:48–6:00 pm
Discussion

5:00–6:00 pm
Breakout Session 3
Incorporating Technology in Neuro-Oncology
Speakers: Gene H. Barnett, Edjah K. Nduom, Daniel A. Orringer, Victor X. Yang

5:00–5:11 pm
Incorporating Social Media into Practice
Edjah K. Nduom

5:12–5:23 pm
Neurosurgeon-Innovator: Taking an Idea into Practice
Victor X. Yang

5:24–5:35 pm
Justifying Investment in a New Technology
Daniel A. Orringer

5:36–5:47 pm
Investing in Technology: The Learning Curve
Gene H. Barnett

5:48–6:00 pm
Discussion



SAT

SEPTEMBER 12

7:00–8:00am
Sponsored Breakfast Symposium

8:00–9:15 am
General Session 3: Neurosurgeons as Clinical Scientists
Speakers: James B. Elder, Frederick F. Lang, Linda M. Liau, John H. Sampson, Nader Sanai, Andrew E. Sloan

8:00–8:12 am
Overview of how Field has Evolved/ Current Role of Surgeon Scientist
Frederick F. Lang

8:13–8:25 am
Regulatory: Drug Development
John H. Sampson

8:26–8:38 am
First in Human Trials: Device Development
Andrew E. Sloan

8:39–8:51 am
Surgical Trialist–Phase 0 Trials
Nader Sanai

8:52–9:04 am
Role of Surgeons in Late-Phase Trials— Transition from Single-Center to Multi-Center Trials
Linda M. Liau

9:05–9:15 am
Cooperative Clinical Trial Groups— NCTN: NRG, ABTC
James B. Elder

9:15–10:15 am
General Session 4: Managing Recurrence in Neuro Oncology
Speakers: Ashok R. Asthagiri, Veronica Chiang, Ian F. Dunn, Ian F. Parney, Michael A. Vogelbaum

9:15–9:26 am
Recurrent GBM: When to Operate?
Michael A. Vogelbaum

9:27–9:39 am
Recurrent HGG: Trials in Development (What to do After Rapid Growth s/p Surgery, RT, Temodar, Avastin)
Ian F. Parney

9:40–9:50 am
Recurrent Brain Metastases in the Era of Immunotherapy: Considerations and Changing Indications; Radiation Necrosis and Dex in Era of Immunotherapy
Veronica Chiang

9:51–10:02 am
High-Grade Meningioma/Recurrent Skull Base Tumors
Ian F. Dunn

10:03–10:15 am
Familial Brain Tumors (NF1, NF2, Li Fraumeni): What to Do?
Ashok R. Asthagiri

10:15–10:45 am
Break with Exhibitors

10:45 am–12:15 pm
Abstract Session 3: Selected Oral Abstract Presentations and Discussion
Moderators: Nduka M. Amankulor, W. Linda Bi, Michael E. Ivan

12:15–1:15 pm
Sponsored Lunch Symposium

1:15–3:00 pm
Laws Symposium
Speakers: Garni Barkhoudarian, Ian F. Dunn, John A. Jane, Daniel F. Kelly, Edward R. Laws, Le Min, Steven Newman, Daniel M. Prevedello, Jason P. Sheehan, Gabriel Zada

1:15–1:17 pm
Introduction
Edward R. Laws

1:18–1:28 pm
Anatomy and Physiology of the Pituitary Region
Garni Barkhoudarian

1:29–1:39 pm
Imaging of Pituitary Tumors
Gabriel Zada

1:40–1:50 pm
Medical Therapy for Pituitary Adenomas
Le Min

1:51–2:01 pm
Neuro-Ophthalmologic Considerations for Pituitary Adenoma Patients
Steven Newman

2:02–2:12 pm
Extracapsular Removal of Macroadenomas
John A. Jane

2:13–2:23 pm
Extended Transsphenoidal Surgery
Daniel M. Prevedello

2:24–2:34 pm
Complications of Pituitary Surgery
Daniel F. Kelly

2:35–2:45 pm
Stereotactic Radiosurgery for Pituitary Adenomas
Jason P. Sheehan

2:46–2:56 pm
Future Developments of Pituitary Care
Ian F. Dunn

2:57–3:00 pm
Closing Remarks

3:00–3:45 pm
Break with Exhibitors

3:45–5:00 pm
Abstract Session 4: Selected Oral Abstract Presentations
Moderators: Chad A. Glenn, Seunggu Jude Han, Gautam U. Mehta

* All speakers and topics are subject to change

GENERAL INFORMATION

Airport/Ground Transportation

The Tumor Section Satellite Symposium takes place at the Miami Beach Convention Center, which is located about 12 miles from Miami International Airport (MIA) and 27 miles from Fort Lauderdale-Hollywood International Airport (FLL). Taxis are readily available outside Baggage Claim/Arrivals Level.

Americans with Disabilities Act

The Tumor Section takes steps to ensure that no individual with a disability is excluded, denied services, segregated, or otherwise treated differently than other individuals because of the absence of auxiliary aids or services. If you require any of the auxiliary aids or services identified in the Americans with Disabilities Act in order to attend any program, please send your requirements directly to the CNS Meetings Department at meetings@cns.org, or by calling (847) 240-2500.

Attire

Professional attire is appropriate for the meeting and in the Exhibit Hall. Professional/dressy attire is appropriate for the Anniversary Gala on Friday, September 11.

Climate/Time Zone

Miami’s climate is classified as tropical. In October, expect an average high of 86 degrees Fahrenheit and the low average of 78 degrees Fahrenheit. It is recommended that you check the weather forecast two days before your flight for the latest weather and temperature information. Please use this information to pack appropriately.

📍 Miami is located in the Eastern Standard Time (EST) Zone

WiFi Service

For your convenience, complimentary WiFi is provided throughout the meeting rooms at the Miami Beach Convention Center.

Miami Attractions

For information, please visit <https://www.miamiandbeaches.com/>. The city offers a variety of fun activities and outstanding dining opportunities for the business traveler as well as families.

Disclaimer

The material presented at the 2020 Tumor Section Satellite Symposium has been made available by the Tumor Section for educational purposes only. The material is not intended to represent the only, nor necessarily the best, method or procedure appropriate for the medical situations discussed, but rather is intended to present an approach, view, statement, or opinion of the faculty which may be helpful to others who face similar situations.

Neither the content (whether written or oral) of any course, seminar, or other presentation in the program, nor the use of a specific product in conjunction therewith, nor the exhibition of any materials by any parties coincident with the program, should be construed as indicating endorsement or approval of the views presented, the products used, or the materials exhibited by the Tumor Section or by its Committees or Affiliates.

The Tumor Section disclaims any and all liability for injury or other damages resulting to any individual attending the meeting, and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals, whether these claims shall be asserted by physicians or any other person.

No reproductions of any kind, including audiotape and videotape, may be made of the presentations at the Tumor Section Meeting. The Tumor Section reserves all of its rights to such material, and commercial reproduction is specifically prohibited.

Smoking

The Miami Beach Convention Center is a non-smoking facility.

TRAVEL, REGISTRATION, AND HOUSING INFORMATION

Online Registration

Go to cns.org/sections/tumor to register online. Visa, MasterCard or American Express are accepted for payment. Online advance registration is the most immediate and secure method of registration.

Registration Rates

Registration Type	Through August 12	After August 12
Member	\$375	\$475
Non-Member	\$575	\$675
Resident/Fellow	\$100	\$200
Nurse/NP/PA	\$250	\$350
Medical Student	\$50	\$100

Cancellations/Refunds

Requests for registration cancellation must be made in writing and sent to:

**Tumor Section Satellite Symposium
CNS Registration and Housing Center**
6100 Plano Pkwy., Suite 3500
Plano, TX 75093
Email: cns@mcievents.com
Fax: 972.349.7715

All qualifying refunds will be processed following the 2020 Tumor Section meeting. Please allow four to six weeks for processing.

- Refunds will be made in accordance with the following schedule:
- Full registration refunds, less a \$100 processing fee, will be granted if written requests for cancellation are received by 5:00 pm CST on August 19, 2020.
 - No refunds will be made for cancellations received after August 19, 2020, or for no-shows.

Ways to Secure Housing

Hotel reservations for the 2020 Tumor Section Satellite Symposium are made in conjunction with the 2020 CNS Annual Meeting. Please see the following pages for detailed hotel information. Visit cns.org/sections/tumor to review housing availability and book your hotel through MCI, the CNS official housing vendor.

Deposit

A deposit of one night’s room and tax is due at the time your hotel reservation is made. This payment must be submitted with your registration fee and will be charged to the credit card provided. Please make checks payable to: CNS Registration and Housing Center, 6100 W. Plano Parkway, Suite 3500, Plano, TX 75093. All rooms are subject to applicable state and local taxes. A small portion of your room rate will be used to help defray the cost of registration and housing services. Hotel reservations requested without deposit will not be processed.

Hotel Change/Cancellation Policy

The deadline date for new reservations is August 12, 2020, based on availability. The hotel requires a deposit of one night’s room and tax to reserve your room. Please make any changes or cancellations through the CNS housing bureau, MCI, through August 12. Beginning August 12 and up to 72 hours prior to your arrival, changes and cancellations must be made directly with your reserved hotel. Please refer to your housing confirmation for your individual hotel’s cancellation policy.

Beginning August 12, 2020

- All changes, cancellations, or questions regarding your reservation must be made directly with the hotel.
- If cancellation notice is not received according to the hotel policy, the deposit will be forfeited. Your individual hotel’s cancellation policy can be found in your emailed confirmation.

Airline Discounts

The Tumor Section is pleased to offer discounts with the following airlines. Discounts are available for flight dates between Wednesday, September 9 and Friday, September 19, 2020, to and from Miami International Airport (MIA).

American Airlines - www.aa.com
Valid dates: September 9–19, 2020

After selecting your flights, on the “Passenger Detail” page, enter code 6590BA in the Promotion Code box at the bottom of the screen, in the “Promo codes and accounts” section.

You will see your discount displayed in the “Cost Summary” section of the “Review and pay” screen.

United Airlines - www.united.com
Valid dates: September 9–19, 2020

After entering your travel information on the home page, click the Advanced Search link. At the bottom of this page, enter discount code ZHQC976817 into the “Promotions and certificates” box. All prices displayed for your flights search will now reflect the discounted prices.

Delta Airlines - www.delta.com
Valid dates: September 10–25, 2020

After entering your travel information on the home page, select the Advanced Search link. Enter discount code NY339 in the Meeting Code (Optional) field. All prices displayed for your flights search will now reflect the discounted prices.

EXHIBIT HALL HOURS

FRI

SEPTEMBER 11
9:00 am–6:00 pm

SAT

SEPTEMBER 12
8:00 am–1:00 pm

Admittance to the Exhibit Hall is by Tumor Section Symposium name badge only. Children under the age of 18 are not allowed in the Exhibit Hall.

SPEAKER READY ROOM

All speakers and abstract presenters should visit the Speaker Ready Room at the Miami Beach Convention Center prior to their presentations.

FRI

SEPTEMBER 11
7:00 am–6:30 pm

SAT

SEPTEMBER 12
6:00 am–6:00 pm

ONSITE REGISTRATION HOURS

FRI

SEPTEMBER 11
8:00 am–6:00 pm

SAT

SEPTEMBER 12
6:30 am–3:00 pm

HOTELS AND AMENITIES



Hotel/Address	Distance to Convention Center	Single/ Double Rate Per Night <small>(excludes taxes/ fees)</small>	Resort Fee Per Night	Number of Restaurants on Property	Room Service	Number of Pools	Beachfront	Fitness Center	Spa	Beach and Pool Chairs/ Towel Service	Bicycles Available	Pet Friendly
Loews Miami Beach Hotel <small>(HEADQUARTER HOTEL)</small> 1601 Collins Avenue Miami Beach, FL 33139	0.5 mile	\$249	\$13	4	Yes	4	Yes	Included in Resort Fee	Yes	Included in Resort Fee	No	Yes
1 Hotel South Beach 2341 Collins Avenue Miami Beach, FL 33139	0.5 mile	\$299	\$25	3	Yes	3	Yes	Included in Resort Fee	Yes	Included in Resort Fee	Included in Resort Fee	Yes
Eden Roc Miami Beach Resort 4525 Collins Avenue Miami Beach, FL 33140	2 miles	\$239	\$21	2	Yes	3	Yes	Included in Resort Fee	Yes	Included in Resort Fee	No	Yes
Fontainebleau Miami Beach 4441 Collins Avenue Miami Beach, FL 33140	2 miles	\$279	\$33	9	Yes	11	Yes	Included in Resort Fee	Yes	Included in Resort Fee	No	Yes
Hyatt Centric Miami Beach 1600 Collins Avenue Miami Beach, FL 33139	0.5 mile	\$229	\$14	1	Yes	1	No	Access to Exhale South Beach Fitness Center (across the street) Included in Resort Fee	No	Included in Resort Fee	Included in Resort Fee	Yes
Royal Palm Resort 1545 Collins Avenue Miami Beach, FL, 33139	0.6 mile	\$179	\$20	2	Yes	2	Yes	Included in Resort Fee	No	Included in Resort Fee	No	Yes
The Confidante Miami Beach 4041 Collins Avenue Miami Beach, FL 33140	1.6 miles	\$169	\$10	2	Yes	2	Yes	Included in Resort Fee	Yes	Included in Resort Fee	Included in Resort Fee	Yes

- 1 Miami Beach Convention Center
1901 Convention Center Dr
Miami Beach , FL 33139
- 2 Loews Miami Beach Hotel
(Headquarter Hotel)
1601 Collins Avenue
- 3 1 Hotel South Beach
2341 Collins Avenue
- 4 The Confidante Miami Beach, the Unbound Collection by Hyatt
4041 Collins Avenue
- 5 Fontainebleau Miami Beach
4441 Collins Avenue
- 6 Hyatt Centric South Beach Miami
1600 Collins Avenue
- 7 Nobu Eden Roc Miami Beach
4525 Collins Avenue
- 8 Royal Palm South Beach Miami, a Tribute Portfolio Resort
1545 Collins Avenue



Exhibitors at the 2018 Tumor Section Satellite Symposium

- Arbor Pharmaceuticals
- ZEISS
- Codman Specialty Surgical
- Elekta
- Invenio Imaging
- Medtronic
- Misonix
- Monteris Medical
- NICO Corporation
- NX Development Corporation
- Stryker
- Synaptive Medical
- The Radiosurgery Society



Join Us This Year!

If you'd like to join this list of exhibitors, please email:
corporatedevelopment@cns.org.

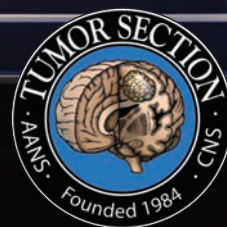
2020 Tumor Section Satellite Symposium



Neurosurgical Oncology **2020:**
A Vision for the Future

JOIN US! Register now at cns.org/tumor
Advance Registration Deadline: August 12, 2020

September 11–12, 2020 | Miami, Florida



10 N. Martingale Road, Suite 190, Schaumburg, IL 60173-2294

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Neurosurgical Oncology **2020:**
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