2018 Tumor Section Satellite Symposium

Houston, Texas • October 5-6, 2018

CNS Tumors: Innovative Technology That Advances Patient Care

Jointly provided by the Congress of Neurological Surgeons and the AANS/CNS Section on Tumors

Advance registration deadline is September 6, 2018
Dear Colleague,

We are excited to invite you to Houston, Texas, October 5–6, for the 14th Biennial Tumor Section Satellite Symposium, which immediately precedes the 2018 CNS Annual Meeting. Our meeting theme this year is **CNS Tumors: Innovative Technology that Advances Patient Care**.

Join us at this two-day event for engaging scientific sessions that explore technological advances in CNS tumor care and how these innovations are impacting the care of tumor patients in the operating room and beyond. Stay on top of immune-based therapies for CNS tumors, and discover how big data and artificial intelligence can be leveraged to improve patient care.

Breakout Sessions for residents, fellows, and young attendings address topics such as starting a lab, clinical trials for beginners, and what to do after residency. 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 symposiums that will provide more opportunities for learning.

We are thrilled to welcome our 2018 Keynote Speaker, NASA Astronaut G. Reid Wiseman, who spent nearly six months on the International Space Station in 2014.

The 31st Anniversary Gala takes place on Friday evening at the luxurious Four Seasons Hotel Houston, and is the perfect 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 Sawaya Symposium honoring the career of Raymond Sawaya, MD, who chaired the neurosurgery department at MD Anderson since its establishment in 1990 through this year. The Biennial Tumor Section Satellite Symposium takes place at the Marriott Marquis Hotel in the heart of downtown Houston, Texas. Take time to explore Discovery Green Park, the city’s largest green space, right outside the doors of the hotel. You’ll also want to visit the nearby Museum District and get the best view in Houston from the JP Morgan Chase Tower Observation Deck.

We encourage you to stay for the 2018 CNS Annual Meeting, October 6–10, for more education and networking with colleagues. When you register for both meetings together, you will receive an automatic $100 off your CNS Annual Meeting registration.

**We can’t wait to see you in Houston!**

Sincerely,

**Section Chair**

**Meeting Chair**

**Meeting Chair**

MANISH AGHI  
University of California, San Francisco  
San Francisco, CA

JEFFREY WEINBERG  
MD Anderson Cancer Center  
Houston, TX

ISAAC YANG  
University of California, Los Angeles  
Los Angeles, CA
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 CNS tumor care and how these innovations are impacting the care of tumor patients in the operating room and beyond. It will identify immune-based therapies for CNS tumors, and how big data and artificial intelligence can improve patient care.

Meeting Learning Objectives:
Upon completion of this symposium, participants will be able to:
- Discuss advancements in technology, brain tumor treatments, and relevance to outcome
- Develop innovative treatment strategies for patients with brain tumors at diagnosis and recurrence
- Discuss emerging surgical, medical, radiation, and immunotherapy treatments to achieve the best outcome
- Recognize new opportunities for computation, artificial intelligence, and big data to impact brain tumor patient care

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

AMA Credit Designation Statement:
The CNS designates this live activity for a maximum of 13.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Mid-Level Practitioners:
Attendees will receive a certificate of attendance. Please contact your individual membership association and certification board to determine the requirements for accepting credits.
FRIDAY, OCTOBER 5, 2018

9:00–9:05 am
Introduction to Tumor Section Satellite Symposium
Manish K. Aghi

9:05–9:15 am
Opening Remarks
Jeffrey S. Weinberg, Isaac Yang

General Session I:
OR Technology Advances
9:15 am–12:00 pm
Moderators: Daniel A. Orringer, Akash J. Patel
Speakers: Gene H. Barnett, Shabbar F. Danish, David T. Fuentes, John Y.K. Lee

9:15–9:30 am
LITT for Brain Tumors
Gene H. Barnett

9:30–9:45 am
Mathematical Model Based Predictions for LITT
David T. Fuentes

9:45–10:00 am
MRI Guided LITT for the Treatment of Infield recurrence after Radiosurgery—Does the Biopsy Matter?
Shabbar F. Danish

10:00–10:15 am
Near Infrared Fluorescent, Targeted & Non-targeted Dyes During Brain Tumor Surgery
John Y.K. Lee

10:15–11:00 am
Break with Exhibitors

KEYNOTE SPEAKER
11:00–11:30 am
G. Reid Wiseman
NASA Astronaut

Wiseman and his crewmates spent hundreds of hours conducting valuable scientific research in areas such as human physiology, medicine, physical science, Earth science, and astrophysics. Wiseman also fostered a strong social media presence throughout his mission by sharing photos, personal tweets and short videos about life aboard the station.

11:30–12:00 pm
Abstract Session I: Selected Oral Abstract Presentations and Discussion
Moderators: Jeffrey S. Weinberg, Isaac Yang

12:10–1:10 pm
Lunch With Exhibitors

12:10–1:10 pm
Sponsored Lunch Symposium

1:45–2:00 pm
Potential Power of T Cells for Brain Tumor Immunotherapy
Hideho Okada

2:00–2:15 pm
How do we Know if it Worked?Endpoints in GBM Immunotherapy
Ian F. Parney

2:15–3:00 pm
Break with Exhibitors

3:00–3:05 pm
Sponsored Lunch Symposium

3:05–5:00 pm
Abstract Session II: Selected Oral Abstract Presentations and Discussion
Moderators: Michael Lim, Chirag G. Patil, Jonathan H. Sherman

31st Anniversary Gala
7:00–10:00 pm
Reception & Dinner
Attend both the 2018 Tumor Section Satellite Symposium and the 2018 CNS Annual Meeting and
Save $100 off your CNS Annual Meeting Registration! Please email meetings@cns.org for
questions on this special offer!

Program Schedule
SATURDAY, OCTOBER 6, 2018

7:00–8:00 am
Sponsored Breakfast Symposium

8:00–9:00 am
Abstract Session III: Selected Oral
Abstract Presentations and Discussion
Moderators: William T. Curry, Isabelle M. Germano, Won Kim

General Session III:
Data Technology
9:00–10:00 am
Moderators: Daniel P. Cahill, Ali Jalali
Speakers: P. Andrew Futreal, Bilwaj K. Gaonkar, Funda Meric-Bernstam, Jun S. Song

9:00–9:15 am
Decision Support for Precision Oncology
Funda Meric-Bernstam

9:15–9:30 am
Functional Genomic Characterization of Germline Risk Variants in Low-Grade Glioma
Jun S. Song

9:30–9:45 am
Automating the Image Based Assessment and Analysis of Tumors Using Pattern Recognition Techniques
Bilwaj K. Gaonkar

9:45–10:00 am
Use of Genetic Technologies in Oncology Decision Making
P. Andrew Futreal

10:00–10:45 am
Break with Exhibitors

10:45 am–12:15 pm
Abstract Session IV: Selected Oral Abstract Presentations and Discussion
Moderators: Michael E. Ivan, Gordon Li, Debraj Mukherjee

12:15–1:15 pm
Lunch With Exhibitors

12:15–1:15 pm
Sponsored Lunch Symposium

Sawaya Symposium
1:15–5:00 pm
Speakers: Mitchel S. Berger, Frederick G. Barker, E. Antonio Chiocca, Ziya L. Gokaslan, Jacques J. Morcos, James T. Rutka, Jason P. Sheehan, Jeffrey S. Weinberg, Isaac Yang

1:15–1:45 pm
History of MDACC and Sawaya Legacy
Frederick F. Lang

1:45–2:00 pm
Education in Neurosurgery/Neurosurgical Oncology
James T. Rutka

2:00–2:15 pm
Research (Clinical and Basic Science)
Mitchel S. Berger

2:15–2:30 pm
Spine Oncology
Ziya L. Gokaslan

2:30–2:45 pm
Metastatic Disease
E. Antonio Chiocca

2:45–3:00 pm
Need/Benefit of Neurosurgical Sub-specialization
Frederick G. Barker

3:00–3:15 pm
Database
Jason P. Sheehan

3:15–3:30 pm
Skull Base
Jacques J. Morcos

3:30–3:45 pm
Break

3:45–4:45 pm
Oral Abstract Presentations

4:45–5:00 pm
Sawaya Symposium Conclusion

5:00 pm
Closing Remarks
Jeffrey S. Weinberg, Isaac Yang

All speakers and topics are subject to change.

Advance registration deadline is September 6, 2018
Airport/ground transportation
The Tumor Section Satellite Symposium takes place at the Marriott Marquis Hotel, which is located approximately 10 miles from the Hobby International Airport (HOU) and 21 miles from the George Bush Intercontinental Airport (IAH).

Taxis are readily available outside Baggage Claim/Arrivals Level, Terminals A, B, C, and E.

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 Friday, October 5 Anniversary Gala.

Climate/time zone
Houston’s climate is classified as humid subtropical. In October, expect average high 82 degrees Fahrenheit with the low average of 61 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.

Huston is located in the central daylight time zone.

Things to do and places to go!
For information go to visithoustontexas.com. The city offers a variety of fun activities and outstanding dining opportunities for the business traveler as well as families.

WiFi Service
For your convenience, complimentary Wi-Fi service is provided throughout the Marriott Marquis Hotel wherever Tumor Section events are being held.

Disclaimer
The material presented at the 2018 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.

Exhibit hall hours

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Friday, Oct 5</td>
<td>9:00 AM - 6:00 PM</td>
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<tr>
<td>Saturday, Oct 6</td>
<td>8:00 AM - 1:30 PM</td>
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Admittance to the Exhibit Hall is by Tumor Section Meeting name badge only. Children under the age of 18 are not allowed in the Exhibit Hall.

Smoking
The Marriott Marquis Hotel is a non-smoking facility.

Speaker Ready Room
All speakers and abstract presenters should visit the Speaker Ready Room at the Marriott Marquis Hotel prior to their presentations.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Friday, Oct 5</td>
<td>1:00 AM - 6:30 PM</td>
</tr>
<tr>
<td>Saturday, Oct 6</td>
<td>6:00 AM - 6:00 PM</td>
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</tbody>
</table>

Onsite registration hours

<table>
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<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Friday, Oct 5</td>
<td>8:00 AM - 6:00 PM</td>
</tr>
<tr>
<td>Saturday, Oct 6</td>
<td>6:30 AM - 5:00 PM</td>
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</table>
Attend both the 2018 Tumor Section Satellite Symposium and the 2018 CNS Annual Meeting and save $100 off your CNS Annual Meeting Registration! Please email meetings@cns.org for questions on this special offer!

Online Registration
Go to cns.org/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.

Paper Registration
Detach and complete the advance registration form on page 9 with credit card information and send by one of the following methods:

Fax (credit cards only):
972.349.7115
Email: cns@mcievents.com
Mail with check or credit card information to:
Tumor Section Satellite Symposium
CNS Registration and Housing Center
6100 Plano Pkwy
Suite 3500
Plano, TX 75093

For wire transfers or questions regarding the 2018 Tumor Section Satellite Symposium call 847.240.2500.

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 2018 Tumor Section meeting. Please allow four to six weeks for processing.

Refunds will be made in accordance with the following schedule:

- Cancellations received on or before 5:00 pm September 13, 2018, will receive a full refund less a $100 processing fee.
- No refunds will be made for cancellations received after September 13 or for no-shows.

Ways to Secure Housing
Hotel reservations for the 2018 Tumor Section Satellite Symposium are made in conjunction with the 2018 CNS Annual Meeting.

Please visit cns.org/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 September 25, 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 September 25. Beginning September 26 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 September 26, 2018
- 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.
REGISTER TODAY
CNS.ORG/2018

MISSION:
NEUROSURGERY

CONGRESS OF NEUROLOGICAL SURGEONS
2018 ANNUAL MEETING
HOUSTON, TEXAS | OCTOBER 6-10, 2018

Advance Registration Deadline: September 6, 2018
#2018CNS

Attend both the 2018 Tumor Section Satellite Symposium and the 2018 CNS Annual Meeting and save $100 off your CNS Annual Meeting Registration! Please email meetings@cns.org for questions on this special offer!
Name Tumor Section Member ID#

Organization/Company

Address ____  ____  ____  

City State Zip Country

Daytime Phone Number (Include country code if applicable)

Alternate Phone

Preferred Email Address—confirmations are sent via email

Required NPI Number
Please provide us with your NPI (National Provider Identifier) Number

Please help us collect accurate attendee demographics by indicating which practice setting most applies to you.

☐ Private Practice  ☐ Academic Institution
☐ Mixed Academic/Private Practice  ☐ Hospital Employed
☐ Military  ☐ Retired  ☐ Other

Americans with Disabilities Act:
☐ Please check here if you may require special accommodations or services in order to attend. You will be contacted by a Tumor Section representative.

Special Dietary Restrictions:
☐ Vegetarian
☐ Kosher
☐ Other (please specify)

Advance registration deadline is September 6, 2018

Registration Fees
Please circle the appropriate registration fee:

<table>
<thead>
<tr>
<th></th>
<th>On or before 9/6</th>
<th>After 9/6</th>
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<tbody>
<tr>
<td>Tumor Section Member</td>
<td>$375</td>
<td>$475</td>
</tr>
<tr>
<td>Non-member</td>
<td>$575</td>
<td>$675</td>
</tr>
<tr>
<td>Residents/Fellows*</td>
<td>$100</td>
<td>$200</td>
</tr>
<tr>
<td>Physician Assistants</td>
<td>$250</td>
<td>$350</td>
</tr>
<tr>
<td>Nurses</td>
<td>$250</td>
<td>$350</td>
</tr>
<tr>
<td>Medical Students**</td>
<td>$50</td>
<td>$100</td>
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*All Domestic Residents: Your Program Director must sign the statement below:
I certify that the individual named above is a Resident in a neurosurgical training program accredited by the ACGME and the Residency Review Committee for Neurosurgery.

Program Director (Print Name)

Program Director Signature  Date

**Medical students must provide copy of student ID

Exhibitor E-mail/Phone Opt-out:
☐ Check here if you do not want your phone number encoded.
☐ Check here if you do not want your e-mail address encoded.

Friday, October 5

31st Anniversary Gala
One ticket is included in registration fee.

☐ I will be attending the 31st Anniversary Gala.
☐ I would like to order additional tickets.
Quantity__________ @ $150.00 each
**Hotel Room Rates**

<table>
<thead>
<tr>
<th>Hotel Name</th>
<th>Single/Double Room Rate Only</th>
<th>Room Rate with local/state tax and fees*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marriott Marquis Houston – Headquarters Hotel (connected to GRB Convention Center)</td>
<td>$269</td>
<td>$314.73</td>
</tr>
<tr>
<td>Embassy Suites by Hilton Houston Downtown</td>
<td>$239</td>
<td>$279.63</td>
</tr>
<tr>
<td>Four Seasons Hotel Houston</td>
<td>$305</td>
<td>$359.10**</td>
</tr>
<tr>
<td>Hampton Inn Houston Downtown</td>
<td>$239</td>
<td>$279.63</td>
</tr>
<tr>
<td>Hilton Americas – Houston (connected to GRB Convention Center)</td>
<td>$269</td>
<td>$314.73</td>
</tr>
<tr>
<td>Homewood Suites by Hilton Houston Downtown</td>
<td>$239</td>
<td>$279.63</td>
</tr>
<tr>
<td>Westin Houston Downtown</td>
<td>$219</td>
<td>$256.23</td>
</tr>
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</table>

*Tax rates subject to change.

**An additional State Cost-Recovery Fee of $2.25 will be charged per room per night. The fee will not be included in the one night room and tax deposit.

**Hotel Reservations**

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<tr>
<th>September/October 2018</th>
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<td>30 1 2 3 4 5 6</td>
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</table>

**Special Requests**
- □ Two (2) Beds
- □ Crib (additional fee may apply)
- □ Rollaway bed (additional fee may apply)

Please note, the Tumor Section cannot guarantee bed type or special requests as this is subject to availability upon arrival at the hotel.

If your preferred hotel choice is not available, you will be contacted and confirmed into the next available hotel.

□ Please check this box if you are interested in reserving a suite. (A CNS housing center representative will contact you regarding suite availability and rates. In the meantime, a standard room will be assigned.)

**Hotel Change/Cancellation Policy**

**Please Note:** Each hotel has its own cancellation policy and some may charge an early departure fee. The individual hotel’s policies will be listed in your e-mail confirmation. Any cancellations not made within the hotel’s cancellation policy will result in forfeiture of your one night’s room and tax deposit. The deadline date for new reservations based on availability is September 25, 2018. The hotel requires a deposit of one night’s room and tax to reserve your room. Please continue to make any requests/changes by e-mailing cns@mcievents.com or calling 800-931-9543 through September 25, 2018. Beginning September 26, 2018, changes and cancellations must be made with your assigned hotel.

**Payment**

<table>
<thead>
<tr>
<th>Subtotal Registration</th>
<th>$___________</th>
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<tbody>
<tr>
<td>Subtotal Hotel Deposit</td>
<td>$___________</td>
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<tr>
<td>Subtotal Gala</td>
<td>$___________</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>$___________</td>
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□ Check: Full payment must accompany your registration form. Make check (US Dollars drawn on a US Bank) payable to: CNS Annual Meeting Registration and Housing Center, 6100 W. Plano Pkwy, Suite 3500, Plano, TX 75093. (Any checks received from an overseas bank will be returned. Any checks returned for insufficient funds are subject to additional charges.)

□ Credit Card Authorization: Credit card will be charged immediately for registration fees. (US dollars drawn on a US bank)

□ Visa □ American Express □ MasterCard

**CREDIT CARD NUMBER**

**EXPIRATION DATE (MONTH/YEAR)**

**NAME OF CARDHOLDER (PRINT)**

**BILLING ADDRESS (IF DIFFERENT THAN REGISTRANT)**

**SIGNATURE**

By signing this form: I authorize the CNS Registration and Housing Center to charge my credit card for the total payment due, acknowledge that the CNS registration cancellation policies are in effect, and grant the CNS the right to use photos taken at the Tumor Section Satellite Symposium which include me in promotional materials for future meetings. These fees are subject to audit and in case of error, the CNS Registration and Housing Center reserves the right to correct the error and charge the appropriate fees.

**Registration Cancellation Policy:** Full registration refunds, less a $100 processing fee, will be granted if written requests for cancellation are received by 5:00 pm CT on September 13, 2018. Course, seminar, and event tickets will be refunded in full until September 13, 2018. No refunds of any kind will be given after this date, regardless of cause. Refunds will not be given for no-shows. Any changes to existing badges after the published cut-off date of September 13, 2018, are assessed a $50 processing fee. Written requests may be emailed to cns@mcievents.com, faxed to 972-349-7715, or mailed to the CNS Annual Meeting Registration and Housing Center, 6100 W. Plano Pkwy, Suite 3500, Plano, TX 75093.

Please return to CNS registration and housing center. You may also register online at www.cns.org/Tumor.

**Fax:** 972-349-7715  **Mail:** Tumor Section Satellite Symposium CNS Registration and Housing Center 6100 W. Plano Pkwy, Suite 3500 Plano, TX 75093
Join us this year for more!

Exhibitors at the 2016 Tumor Section Satellite Symposium

Arbor Pharmaceuticals
BioD, LLC
Brainlab
Carl Zeiss
DePuy Synthes
Medtronic
Monteris Medical
Stryker
Tocagen, Inc.