



THE OHSU DEPARTMENT OF NEUROLOGICAL SURGERY

# STEREOTACTIC AND FUNCTIONAL NEUROSURGERY COURSE 2026

April 15 – 17, 2026

Oregon Health & Science University  
Portland, OR



## **COURSE CHAIR**

Ahmed Raslan, M.D.

## **OHSU COURSE DIRECTORS**

Kim Burchiel, M.D.

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Kelly Collins, M.D.

## **OHSU NEUROLOGY FACULTY**

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Ittai Bushlin, M.D., Ph.D.

Lia Ernst, M.D.

Marissa Kellogg, M.D., M.P.H.

David Spencer, M.D.

## **OHSU OTOLARYNGOLOGY FACULTY**

Christopher Hargunani, M.D.

## **OHSU COURSE COORDINATORS & ADMINISTRATIVE TEAM**

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Sunny Carrick, B.A.

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Shannon Winchester, M.B.A., MA.T., C-TAGME

## **VIRTUOHSU LAB SPECIALISTS**

Nicole Desmarais, L.A.T.G.

Laura Le

Joseph Roberts

## **SFN COURSE FACULTY 2026**

Harith Akram, MBChB, Ph.D. | UNIVERSITY COLLEGE OF LONDON

Waseem Aziz, Ph.D., M.S., MBCh, SHEIKH SHAKHBOUT MEDICAL CITY

Sharona Ben-Haim, M.D. | UC SAN DIEGO HEALTH

Nathan Crone, M.D. | JOHNS HOPKINS MEDICINE

Shabbar Danish, M.D. | JERSEY SHORE UNIVERSITY

Shadi Dayeh, Ph.D., M.S. | UNIVERSITY OF CALIFORNIA, SAN DIEGO

Steven Falowski, M.D. | NEUROSURGERY ASSOCIATES OF LANCASTER, PA

Alfonso Fasano, M.D., Ph.D. | UNIVERSITY OF TORONTO

Zeiad Yossry Fayed, M.D., Ph.D. | AIN SHAMS UNIVERSITY, EGYPT

Kelly Foote, M.D. | UNIVERSITY OF FLORIDA

Walid Ahmed Abdel Ghany, M.D., Ph.D., AIN SHAMS UNIVERSITY

Benjamin Grannan, M.D. | UNIVERSITY OF WASHINGTON

Kunal Gupta, M.D., Ph.D. | MEDICAL COLLEGE OF WISCONSIN

Simon Hanft, M.D. | WESTCHESTER MEDICAL CENTER, NY

Vanessa Milanese Holanda, M.D., Ph.D. | A BENEFICENCIA PORTUGUESA HOSPITAL, SAO PAULO, BRAZIL

Christopher Honey, M.D., D.Phil. | UNIVERSITY OF BRITISH COLUMBIA

Zvi Israel, M.D. | HADASSAH UNIVERSITY HOSPITAL, ISRAEL

Jooji Jimenez-Shahed, M.D. | MOUNT SINAI WEST

Michael Kinsman, M.D. | UNIVERSITY OF KANSAS

Andrew Ko, M.D. | UNIVERSITY OF WASHINGTON

Vibhor Krishna, M.D., M.S. | UNIVERSITY OF NORTH CAROLINA

Albert Lee, M.D. | LEGACY HEALTH, EMANUEL, PORTLAND, OR

Justin Cheng-chia Lee, M.D., Ph.D. | TAIPEI VETERANS GENERAL HOSPITAL, TAIWAN

Neena Marupudi, M.D., M.S. | UNIVERSITY OF MICHIGAN

Kai J. Miller, M.D., Ph.D. | MAYO CLINIC

Joseph Neimat, M.D., M.S. | UNIVERSITY OF LOUISVILLE

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Julie Pilitsis, M.D., Ph.D., M.B.A. | UNIVERSITY OF ARIZONA

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Nader Pouratian, M.D., Ph.D. | UT SOUTHWESTERN  
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Jeffrey Raskin, M.D., M.S. | NORTHWESTERN LURIE CHILDREN'S HOSPITAL  
Joshua Rosenow, M.D. | NORTHWESTERN UNIVERSITY  
Ahmed Abdelbar Salem, M.D. | AIN SHAMS UNIVERSITY  
Jason Schwalb, M.D., M.B.A. | INDIANA UNIVERSITY  
Sameer Sheth, M.D., Ph.D. | BAYLOR COLLEGE OF MEDICINE  
Konstantin Slavin, M.D. | UNIVERSITY OF ILLINOIS, CHICAGO  
Hai Sun, M.D., Ph.D. | RUTGERS UNIVERSITY  
Ashwin Viswanathan, M.D. | BAYLOR COLLEGE OF MEDICINE  
Chengyuan Wu, M.D., MSBME | THOMAS JEFFERSON UNIVERSITY  
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## Wednesday April 15 – DAY 1 – PAIN

6:30 A.M. Shuttle Pickup

7:00 A.M. Registration and Continental Breakfast **in OHSU Auditorium Library Great Hall**

7:45 A.M. Welcome, Opening Remarks, Kim Burchiel, M.D., Ahmed Raslan, M.D.

8:00 A.M. Facial Pain Classification and Outcomes - Kim Burchiel, M.D.

8:15 A.M. Current and Future States of Functional Neurosurgery – Joshua Rosenow, M.D.

8:30 A.M. Business Considerations and Job Search in Functional Neurosurgery – Joseph Neimat, M.D., M.S.

8:45 A.M. Microvascular Decompression for Cranial Nerve Compression Syndromes - Chris Honey, M.D., D.Phil.

### 9:00 A.M. Break / Questions (Beverages in Library Great Hall)

9:15 A.M. Basic Principles of Neuromodulation - Kunal Gupta, M.D., Ph.D.

9:30 A.M. DRG Stimulation for Pain - Steven Falowski, M.D.

9:45 A.M. DBS for Pain - Sharona Ben-Haim, M.D.

10:00 A.M. SCS for Pain – Julie Pilitsis, M.D., Ph.D., M.B.A.

### 10:15 A.M. Vendor Exhibit Session, Library Side Rooms

10:30 A.M. IDDS for Pain and Spasticity - Albert Lee, M.D.

10:45 A.M. Spinal Ablation for Cancer Pain (Cordotomy, Myelotomy, and Tractomy) - Ashwin Viswanathan, M.D.

11:00 A.M. Spinal Ablation for Chronic Pain - Ahmed Abdelbar Salem, M.D., Ph.D.

11:15 A.M. Dorsal Root Entry Zone (DREZ) - Michael Kinsman, M.D.

### 11:45 A.M. Course Group Photo

### 12:00 P.M. Lunch in Richard Jones Hall Atrium (3<sup>rd</sup> floor)

12:45 P.M. Low Intensity Focused Ultrasound – Justin Cheng-chia Lee, M.D., Ph.D.

1:00 P.M. VNS Rediscovered – Ahmed Raslan, M.D.

1:15 P.M. Cadaver Lab Pre-Teaching – Ahmed Raslan, M.D.

1:45 P.M. Intro to VirtuOHSU – Nicole Desmarais, L.A.T.G.

### 2:00 P.M. Break (Snack Platter outside VirtuOHSU) / Transition to Lab

### 2:00 P.M. Pain Lab Session in VirtuOHSU

2:00 P.M. SCS | DREZ | DRG Demo (Kinsman, Ben-Haim, Ko, Abdelbar Salem)

2:00 P.M. MVD (Burchiel)

6:00 P.M. End of Lab

6:15 P.M. Shuttle pickup outside Library - Return to Hotel

### Evening Event: Faculty Banquet Dinner at the Multnomah Athletic Club (MAC)

6:30 P.M. Shuttle pickup – Faculty taken to Hotel to change, followed by dinner.

7:30 P.M. Faculty Dinner – MAC Founders Banquet Room

9:30 P.M. Faculty group / individual Lyft back to hotel



## Thursday, April 16 - DAY 2 – EPILEPSY

6:30 A.M. Shuttle Pickup

7:00 A.M. Continental Breakfast in **OHSU Auditorium Library Great Hall**

7:45 A.M. Who is a Candidate for Epilepsy Surgery? - Marissa Kellogg, M.D.

8:00 A.M. Pre-surgical Localization of Epilepsy - David Spencer, M.D

8:15 A.M. Focused Ultrasound Neuromodulation in Epilepsy – Justin Cheng-chia Lee, M.D., Ph.D.

8:45 A.M.. Mechanisms of Onset and Termination of Epilepsy – Hai Sun, M.D., Ph.D.

### 9:00 A.M. Break (Beverages in Library Great Hall)

9:15 A.M. High Channel Count Electrophysiology – Shadi Dayeh, Ph.D.

9:30 A.M. Passive and Active Brain Mapping – Nathan Crone, M.D

9:45 A.M. Visual Restoration Using BCI – Nader Pouratian, M.D., Ph.D.

10:00 A.M. sEEG As a Clinical and Research Tool – Chengyuan Wu, M.D.

### 10:15 A.M. Vendor Exhibit Session, Library Side Rooms

10:45 A.M. Responsive Neurostimulation (RNS) – Lia Ernst, M.D.

11:00 A.M. DBS for Epilepsy – Kai Miller, M.D., Ph.D.

11:15 A.M. Vagus Nerve Stimulation (VNS) – Ittai Bushlin, M.D., Ph.D.

11:30 A.M. Psychoaffective Brain Pathways – Sameer Sheth, M.D., Ph.D.

### 11:45 A.M Lunch in Richard Jones Hall Atrium (3<sup>rd</sup> floor)

12:30 P.M. Temporal Lobe Resection – Jason Schwalb, M.D.

12:45 P.M. Laser Interstitial Thermal Therapy - Shabbar Danish, M.D.

1:00 P.M. Cortical Dysplasia and Extratemporal Resections in Epilepsy -Jeffrey Raskin, M.D., M.S.

1:15 P.M. Disconnection Surgery, Neena Marupudi, M.D., M.S.

### 1:30 P.M. Break (Beverages & Snack Platter in Library Great Hall)

1:45 P.M. Brain Mapping in Children - Kelly Collins, M.D.

2:00 P.M. Radiosurgery Lecture – Shabbar Danish, M.D.

2:15 P.M. Epilepsy Genetics – Dr. Annapurna Poduri, M.D. M.P.H.

2:30 P.M. Anatomy Review | Cadaver Lab Pre-teaching - Andrew Ko, M.D.

### 2:45 P.M. Break / Transition to Lab, RJH 2<sup>nd</sup> floor

### 3:00 P.M. NEUROLOGY LAB – Neurostimulator Programming for Epilepsy RNS & DBS, VirtuOHSU Classroom

#### 3:00 P.M. NEUROSURGERY Epilepsy Lab Session in VirtuOHSU

3:00 P.M. LITT (Danish, Raskin, Lipson, Grannan, Gupta, Hanft)

3:00 P.M. Temporal Lobectomy (Ben-Haim, Ko, Burchiel, Cleary)

3:00 P.M. Neurostimulator Programming for Epilepsy DBS|RNS (Ernst)

6:00 P.M. End of Lab

### Evening Event: Course Banquet at Doernbecher Children’s Hospital, Vey Meeting Space

6:30 P.M. Walk to DCH from Lab

7:00 P.M. Course Dinner (Catered Buffet)

9:00 P.M. Shuttle Pickup - Return to Hotel

## Friday, April 17 - DAY 3 – MOVEMENT DISORDERS

6:30 A.M. Shuttle Pickup

7:00 A.M. Continental Breakfast in **OHSU Auditorium Library Great Hall**

7:45 A.M. Target Selection for Movement Disorder Surgery - Joohee Jimenez-Shahed, M.D.

8:00 A.M. DBS: Awake or Asleep? – Kim Burchiel, M.D.

8:15 A.M. Awake DBS without MER – Erika Petersen, M.D.

8:30 A.M. Imaging Based Target for DBS – Harith Akram, MBChB, Ph.D.

### 8:45 A.M. Break / Beverages in Library Great Hall

9:00 A.M. Tractographic Basis of DBS Mechanism of Action – Vanessa Milanese Holanda, M.D., Ph.D.

9:15 A.M. Complications of DBS – Zvi Israel, M.D., Ph.D.

9:30 A.M. Using Sensing for Programming in Movement Disorders - Adolfo Ramirez-Zamora M.D.

9:45 A.M. Troubleshooting Programming in DBS – Shannon Anderson, MPAS, PA-C

10:00 A.M. Closed-loop/Adaptive DBS - Kelly Foote, M.D.

### 10:15 A.M. Vendor Exhibit Session, Library Side Rooms

10:45 A.M. A Neurology Perspective: Focused Ultrasound vs DBS – Alfonso Fasano, M.D., Ph.D.

11:00 A.M. New Indications for Focused Ultrasound in Neurosurgery (High-Intensity & Low-Intensity Focused Ultrasound) – Vibhor Krishna, M.D.

11:15 A.M. Focused Ultrasound for Movement Disorders - Daniel Cleary, M.D., Ph.D.

11:30 A.M. Radiofrequency CNS Ablation in Movement Disorders - Zeiad Fayed, M.D., Ph.D.

11:45 A.M. Stimulation of the PSA for Tremors – Atilla Yilmaz, M.D.

### 12:00 P.M. Lunch in Richard Jones Hall Atrium (3<sup>rd</sup> floor)

12:45 P.M. Integrating Research Into Clinical Practice: The Case of Language Prediction – Ben Grannan, M.D.

1:00 P.M. Peripheral Nerve Stimulation for Pain – Konstantin Slavin, M.D.

1:15 P.M. Indirect Neuromodulation in Pediatric CP Hypertonia: The Peripheral Ablation – Walid Abdel Ghany, M.D., Ph.D.

1:30 P.M. Cadaver Lab Pre-teaching - Ahmed Raslan, M.D.

### 1:45 P.M. Break / Transition to Lab, RJH 2<sup>nd</sup> floor

**1:00 P.M. NEUROLOGY LAB - DBS Programming for Movement Disorders, VirtuOHSU Classroom/Auditorium**  
(Anderson, Ramirez-Zamora, Jimenez-Shahed)

### 2:00 P.M. NEUROSURGERY LAB

NeuroPace/ROSA Robot (Kinsman, Ko, Raskin, Oliveria)

ClearPoint Neuro (Burchiel, Cleary, Lipson, Oliveria)

Brainlab (Foote, Fayed, Ben-Haim, Oliveria)

Globus / Robotic SEEG (Kinsman, Ko, Raskin, Aziz)

Alpha Omega Engineering MER Unit (Cleary)

### 6:00 P.M. – Course Adjourns