

15<sup>th</sup> Annual

UNIVERSITY HOSPITALS EAR, NOSE & THROAT INSTITUTE

# 2019 Research Day and Otolaryngology Symposium

CONTINUING MEDICAL EDUCATION

FRIDAY, JUNE 7, 2019

**Tinkham Veale University Center**

Case Western Reserve University  
11038 Bellflower Road  
Cleveland, OH 44106

PRESENTED BY:

SPONSORED BY:



## ABOUT THE EVENT

This event combines the UH ENT Institute's Annual Research Day (morning session) with the Second Annual Otolaryngology Symposium (afternoon session). The event provides updates on the latest research findings and covers topics on otology, pediatrics, head and neck surgery, and rhinology. This course is designed to be of interest to otolaryngologists, head and neck surgeons, oncologists, and pediatricians. Nurses, allied health professionals, residents/fellows, and medical students will also benefit from this event.

### LEARNING OBJECTIVES

After participating in this event, participants will be able to:

- Identify cases that would benefit from the use of operative planning and virtual planning software.
- Stratify patients for in-office panendoscopy based on tumor type and presentation.
- Identify patients that would benefit from the use of Inspire therapy and create a team-based approach of sleep apnea patients.
- Discuss emerging biomarker research

### EDUCATIONAL DESIGN

The event will consist of didactic lectures followed by a question and answer session. Audio/visual support will enhance the learning process.

### CONTINUING EDUCATION ACCREDITATION STATEMENT

Case Western Reserve University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Case Western Reserve University School of Medicine designates this live activity for a maximum of **6.5 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### POLICY DISCLOSURE

The policy of the Case Western Reserve University School of Medicine CME Program (CWRU) requires the Activity Director, planning committee members, and all activity faculty (that is, anyone in a position to control the content of the educational activity) disclose to the activity participants all relevant financial relationships with commercial interest. Disclosure will be made to activity participants prior to the commencement of the activity. CWRU also requires that faculty made clinical recommendations based on the best available scientific evidence and that faculty identify any discussion of "off-label" or investigational use of pharmaceutical products or medical devices.

Additional event information at: [casemed.case.edu/otolaryngology](http://casemed.case.edu/otolaryngology)

## PROGRAM AGENDA – Research Day

### FRIDAY, JUNE 7 – MORNING

#### Welcome – Research Session

- |         |  |
|---------|--|
| 7:30 am | Breakfast                                      |
| 8:00 am | <b>Welcome</b><br>Nicole Maronian, MD          |
| 8:05 am | <b>Opening Remarks</b><br>Kumar Alagramam, PhD |

#### Resident Research Presentations

- |         |   |
|---------|---|
| 8:10 am | <b>In Vivo Evaluation of Anti-microbial Collagen Sheets for Use with Head and Neck Hardware</b><br>Anish Abrol, PGY-3   |
| 8:25 am | <b>Repurposing ART to Prevent Deafness in Usher Syndrome 3A</b><br>Arminé Kocharyan, PGY-3<br>*1 <sup>st</sup> Place Winner, 2019 University of Pittsburgh Research Competition<br>*2 <sup>nd</sup> Place Winner, 2019 Northeast Ohio Head and Neck Surgery Society Resident Research Competition |
| 8:40 am | <b>The Effect of Terpenoids on Oral Squamous Cell Carcinoma</b><br>Rachel Kominsky, PGY-3<br>*2 <sup>nd</sup> Place Winner, 2019 University Pittsburgh Research Competition   |
| 8:55 am | <b>cfDNA as a Biomarker for Disease in Patients with HPV+ OPSCC</b><br>Blake Szelestey, PGY-3   |

#### 7<sup>th</sup> Annual James E. Arnold, MD Endowed Lectureship

- |         |  |
|---------|--|
| 9:10 am | <b>Artificial Intelligence and Computational Imaging: Implications for Precision Medicine</b><br>Anant Madabhushi, PhD |
|---------|--|

#### Otology Research

- |          |   |
|----------|---|
| 9:50 am  | <b>Developing a Cellular Therapy to Treat Strial Congenital Deafness</b><br>Justine Renaud, PhD   |
| 10:10 am | <b>Mutation in the Clarin-2 Gene Causing Hearing Loss in Human and a Zebrafish Model Reveals the Etiology</b><br>Suhasini R. Gopal, PhD |
| 10:30 am | <b>Rapid Mitochondrial Calcium Uptake is Critical for Hearing Preservation in Mice</b><br>Manikandan Mayakannan, PhD                    |

#### Head and Neck Oncology Research

- |          |   |
|----------|---|
| 10:50 am | <b>HPV+ HNSCC Are Not Created Equal: Lessons Learned from HPV33</b><br>Kate Chatfield-Reed, PhD         |
| 11:10 am | <b>Genomic and Immune Biomarkers to Identify Early Failures in HPV+ HNSCC</b><br>Wendi O'Neill, DDS, MS |

#### Research Session Conclusion

- |          |                 |
|----------|-----------------|
| 11:30 am | Closing Remarks |
|----------|-----------------|

## PROGRAM AGENDA – Otolaryngology Symposium

### FRIDAY, JUNE 7 – AFTERNOON

#### Lunch/Vendor Exhibits

11:30 am            Lunch  
                         Vendor Exhibits  
                         Poster Displays

#### Keynote Guest Lecture

1:00 pm            Intro to Guest Lecture  
                         Rod Rezaee, MD

                         Implementation Science: A Path to Academic Success, Meaning, and Improved Health  
                         Peter Pronovost, MD, PhD

#### Distinguished CWRU ENT Alumni Presentation

1:40 pm            Surgical Approaches for Head and Neck Cancer and the Anterior Skull Base  
                         John Werning, MD, DMD

#### Updates in Otolaryngology

2:10 pm            Multidisciplinary Approach to OSA: An Update  
                         Amy Schell, MD

2:30 pm            Laryngotracheal Stenosis – Initial Management  
                         Scott Howard, MD

2:50 pm            Break

3:10 pm            Management of the Noisy Baby  
                         Jay Shah, MD

3:30 pm            Clinical Care Guidelines and Telehealth: Improving Value  
                         Brian D'Anza

3:50 pm            Head and Neck Surgery Panel  
                         Nicole Fowler, MD (Moderator)  
                         Pierre Lavertu, MD / Shawn Li, MD / Jason Thuener, MD / John Werning, MD, DMD

4:30 pm            Conference Adjourns

## SPEAKERS

### KEYNOTE SPEAKERS

#### **Anant Madabhushi, PhD**

F. Alex Nason Professor, Biomedical Engineering  
Director, Center for Computational Imaging and Personalized Diagnostics  
Case Western Reserve University School of Engineering

Dr. Madabhushi is an internationally recognized translational researcher, patent holder, and recipient of multiple NIH grants. His particular interest is in pursuing a better understanding of the causes and potential cures of complex disease processes such as cancer, utilizing computerized algorithms aimed at analyzing the radiographic (radiomics) and pathologic appearance (pathomics) of tumors.

#### **Peter Pronovost, MD, PhD**

Chief Clinical Transformation Officer  
University Hospitals

Dr. Pronovost is a world-renowned patient safety champion, innovator, and critical care physician. His scientific work, leveraging the use of checklists to reduce central venous catheter-related bloodstream infections, has saved thousands of lives and earned him high-profile accolades, including being named one of the 100 most influential people in the world by Time Magazine and receiving a coveted MacArthur Foundation “genius grant” in 2008. Dr. Pronovost is a prolific researcher and global thought leader, publishing over 800 papers throughout his career.

### DISTINGUISHED CWRU ENT ALUMNI SPEAKER

#### **John Werning, MD, DMD**

Otolaryngology  
Promedica Physicians Group

### ACTIVITY DIRECTOR

#### **Rod Rezaee, MD**

Associate Professor, Otolaryngology  
Case Western Reserve University School of Medicine  
Director, Head and Neck Surgical Oncology and Reconstruction  
Director, Head and Neck Surgery Fellowship  
UH ENT Institute

### PLANNING COMMITTEE

#### **Kumar Alagramam, PhD**

Associate Professor, Otolaryngology  
Case Western Reserve University School of Medicine  
Anthony J. Maniglia Chair, Research & Education  
Director, Research  
UH ENT Institute

#### **Nicole Maronian, MD**

Julius W. McCall Associate Professor and Chair,  
Otolaryngology  
Case Western Reserve University School of Medicine  
Director  
UH ENT Institute

## **SPEAKERS**

### **Kate Chatfield-Reed, PhD**

Postdoctoral Scholar  
UH ENT Institute

### **Brian D'Anza, MD**

Assistant Professor, Otolaryngology  
Case Western Reserve University School of Medicine  
Rhinology  
UH ENT Institute

### **Nicole Fowler, MD**

Assistant Professor, Otolaryngology  
Case Western Reserve University School of Medicine  
Head and Neck Surgical Oncology and  
Reconstruction  
UH ENT Institute

### **Suhasini R. Gopal, PhD**

Research Scientist, Otolaryngology  
Case Western Reserve University School of Medicine

### **Scott Howard, MD, MBA**

Assistant Professor, Otolaryngology  
Case Western Reserve University  
Director, Voice, Airway, and Swallowing Center  
UH ENT Institute

### **Pierre Lavertu, MD**

Professor, Otolaryngology  
Case Western Reserve University School of Medicine  
Head and Neck Surgical Oncology and  
Reconstruction  
UH ENT Institute

### **Shawn Li, MD**

Assistant Professor, Otolaryngology  
Case Western Reserve University School of Medicine  
Head and Neck Surgical Oncology and  
Reconstruction  
UH ENT Institute

### **Manikandan Mayakannan, PhD**

Postdoctoral Scholar, Otolaryngology  
Case Western Reserve University School of Medicine

### **Wendi O'Neill, DDS, MS**

Research Scientist  
UH ENT Institute

### **Justine Renauld, PhD**

Postdoctoral Scholar, Otolaryngology  
Case Western Reserve University School of Medicine

### **Amy Schell, MD**

Assistant Professor, Otolaryngology  
Case Western Reserve University School of Medicine  
Sleep Surgery  
UH ENT Institute

### **Jay Shah, MD**

Assistant Professor, Otolaryngology  
Case Western Reserve University School of Medicine  
Pediatric Otolaryngology  
UH ENT Institute/Rainbow Babies & Children's  
Hospital

### **Jason E. Thuener, MD**

Assistant Professor, Otolaryngology  
Case Western Reserve University School of Medicine  
Head and Neck Surgical Oncology and  
Reconstruction  
UH ENT Institute

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## REGISTRATION FORM

Registration is required for this event and includes tuition, access to all educational sessions, materials, refreshments, breakfast, and lunch. Persons with special needs who require additional assistance should contact the Activity Coordinator at [Jasmine.Boggan@UHHospitals.org](mailto:Jasmine.Boggan@UHHospitals.org) at least than two weeks prior to the program.

### TUITION AND FEES

CME Credit \$50

No CME Credit \$0

### WAYS TO REGISTER

1. Register online:

Licensed Physicians

<https://cwru.cloud-cme.com/default.aspx?P=5&EID=30467&formid=239>

Other health care professionals (nurses, residents, staff, students)

<https://goo.gl/forms/k9KNTRJwDcdX2aXr1>

2. Mail this registration form with check payment to:

Jasmine Boggan

University Hospitals-Head and Neck Surgery

11100 Euclid Avenue

Mailstop LKS 5045

Cleveland, OH 44106

Name	Degree	
Social Security number (last 4 digits)		
Mailing Address		
City	State	ZIP
Email	Business Phone	

### METHOD OF PAYMENT

- ☐ Enclosed is my check payable to: University Hospitals – Department of Otolaryngology-Head and Neck Surgery