

# NIDDK Workshop / Agenda

## **Pancreatic Pain: Knowledge Gaps and Research Opportunities in Children and Adults**

Wednesday, July 22, 2020

Omni William Penn Hotel, Pittsburgh PA

### RATIONALE

Pain is the most common symptom in patients with benign or malignant diseases of the pancreas, and frequently the most challenging for physicians to treat. Severe pain is often refractory to treatment and chronic pain is frequently disabling for adults and children with pancreatitis. Although a common manifestation of pancreatic disease, pain is an unreliable indicator of the extent of pancreatic damage and is difficult to fully understand or assess.

### PURPOSE

The purpose of this workshop is to explore recent developments in understanding the origin and mechanisms of pain in pancreatic disease, the relationship of visceral neural pathways and central pain centers, the role of behavioral factors and disorders on the perception of pain, and differences in pain perception and processes in children compared to adults. In addition the role of genetic risk factors for pain, and the mechanisms and role of placebos in pain treatment will be discussed. Methods of pain assessment including quantitative sensory testing will be examined, as well the process of central sensitization of pain. Finally, newer approaches to pain management including cognitive behavioral therapy, nerve stimulation, experimental (non-opioid) drugs, and cannabinoid compounds will be covered.

### REGISTRATION

The workshop is open to the public, and admission is free. Registration in advance is required, however. The workshop venue is also the location of the annual PancreasFest meeting, which will begin immediately after the workshop. Information on PancreasFest2020 can be obtained at [www.pancreasfest.com](http://www.pancreasfest.com).

### DRAFT AGENDA

7:30 a.m. – 8:00 a.m.

- Registration

8:00 a.m. – 8:15 a.m.

- Welcome (Dr. Aliye Uc and Dr. Dhiraj Yadav)

8:15 a.m. – 8:45 a.m.

- Overview Lecture: The Clinical Problem of Pancreatic Pain  
Vikesh Singh, M.D., MSc, Johns Hopkins (confirmed)

8:45 a.m. – 10:00 a.m.

- Session One: The Pathophysiology of Pain  
Moderators: Aliye Uc, M.D. and Dhiraj Yadav, M.D.

8:45 a.m. – 9:10 a.m.

- Recent discoveries in the pathophysiology of pancreatic pain  
Jay Pasricha, M.D., Johns Hopkins (confirmed)

9:10 a.m. – 9:35 a.m.

- Central Pain Processes – CNS Pathways and Mediators  
Vania Apkarian, Ph.D., Northwestern (confirmed)

9:35 a.m. – 10:00 a.m.

- Central Pain Processes – Imaging Pain and/or the Perception of It  
Tor D. Wager, Ph.D., Dartmouth (confirmed)

10:00 a.m. – 10:20 a.m.

- Break

10:20 a.m. – 12:00 p.m.

- Session Two: Biomarkers, Mediators and Pharmacology of Pain  
Moderators: Aida Habtezion M.D, M.Sc. and Jami Saloman PhD

10:20 a.m. – 10:45 a.m.

- Genetic Biomarkers of Pancreatic Pain  
Ellyn Dunbar, M.S., University of Pittsburgh (confirmed)

10:45 a.m. – 11:10 a.m.

- Behavioral Biomarkers of Pain Sensitivity (or Neural Plasticity and Pain Responses in Children)  
Sarah Jane Schwarzenberg, M.D., University of Minnesota (confirmed)

11:10 a.m. – 11:35 a.m.

- Depression and Anxiety as Mediators of Pain  
Glenn Treisman, M.D., Ph.D., Johns Hopkins Psychiatry (invited)

11:35 a.m. – 12:00 p.m.

- Placebo Effects in the Response to Pain Treatment  
Luana Colloca, M.D., Ph.D., University of Maryland (confirmed)

12:00 p.m. – 1:00 p.m.

- Lunch  
(Include discussion of funding opportunities for pain research e.g., NIH HEAL initiative)

1:00 p.m. – 3:00 p.m.

- Session Three: Pain Assessment  
Moderators: Melena Bellin M.D. and Christopher Forsmark M.D.

1:00 p.m. – 1:25 p.m.

- Systems and Tools of Pancreatic Pain Assessment  
John Windsor, M.D., University of Auckland (confirmed)

1:25 p.m. – 1:50 p.m.

- Quantitative Sensory Testing  
Anna Evans Phillips, M.D., University of Pittsburgh (confirmed)

1:50 p.m. – 2:15 p.m.

- Central Sensitization and Hypersensitization to Pain due to Chronic Opioid Use  
George Koob, Ph.D., NIAAA (confirmed)

2:15 p.m. – 2:40 p.m.

- Panel Discussion

2:40 p.m. – 3:00 p.m.

- Break

3:00 p.m. – 5:00 p.m.

- Session Four: Pain Treatment – Challenges and Opportunities  
Moderators: Marc Goodman M.D. and Stephen Pandol M.D.

3:00 p.m. – 3:25 p.m.

- Neurolysis and Nerve Stimulation as Treatments of Pain  
**TBD** (Leo Kapural, M.D., Wake Forest suggested)

3:25 p.m. – 3:50 p.m.

- Ketamine and Other Experimental Drugs as Treatment of Pain  
Thomas Sprouse, M.D. UCLA (invited)

3:50 p.m. – 4:15 p.m.

- Cognitive Behavioral Therapy of Pancreatic Pain in Children  
Tonya Palermo, Ph.D., University of Washington (confirmed)

4:15 p.m. – 4:40 p.m.

- Endocannabinoid Signaling and Cannabinoid Treatment of Pain  
Daniel Piomelli, M.D., Ph.D., University of California, Irvine (confirmed)

4:40 p.m. – 5:00 p.m.

- Panel Discussion – Setting the Research Priorities

Panelists: TBD

5:00 p.m.

- Adjournment