MSNBIO2622 – Mechanisms and Clinical Presentation of Pain

Syllabus

The class meets Mondays from 3-5 in 1495 BST. This is a two unit class that will be based on class participation (~40%), and a review paper on a topic of your choosing (that is approved by me). The paper is due Monday December 9.

Reading material will be distributed prior to each class that should help set the stage for the topic(s) to be discussed. Hopefully, these will also prepare you to get the most out of each lecture.

|  |  |  |
| --- | --- | --- |
| **Date** | **Topic**  | **Faculty** |
| 26-Aug | Pain Toxonomy - History/Nociceptors | Koerber/Gold |
| 9-Sept | Dorsal horn/Ascending circuits | Koerber/Ross |
| 16-Sept | Supraspinal circuits /Descending pathways | Kolber/Taylor |
| 23-Sept | Injury-induced changes in Nociceptors/Dorsal horn | Gold/Seal |
| 30-Sept | Neuropathic pain | Wasan/Gold |
| 7-Oct | Low Back Pain | Sowa/Vo |
| 14-Oct | Itch and Pain | Kaplan/Ross |
| 23-Oct | SFN Meeting |  |
| 28-Oct | Cancer pain | King/Davis |
| 4-Nov | Musculoskeletal pain – fibromyalgia | Helm/Albers |
| 11-Nov | Visceral pain | Levinthal/Davis |
| 18-Nov | Perioperative pain | Ibinson/Gold |
| 25-Nov | Pain and addiction | Merlin/Taylor |
| 2-Dec | Psychosocial/behavioral assessment/Orofacial pain-Headache | Brown/Kaniecki |

Faculty:

Kathryn Albers, PhD, Professor of Neurobiology

Charlotte Brown, PhD Associate Professor of Psychiatry

Brian Davis, PhD, Professor of Neurobiology

Eric Helm, MD, Assistant Professor of Physical Medicine and Rehabilitation

Michael S Gold, PhD, Professor of Neurobiology

James Ibinson, MD, PhD Assistant Professor of Anesthesiology and Perioperative Medicine

Robert Kaniecki, MD Assistant Professor of Neurology and Director of the Headache Center

Daniel Kaplan, MD, PhD Professor of Immunology and Dermatology

H Richard Koerber, PhD Professor of Neurobiology

Benedict Kolber, PhD Associate Professor of Biological Sciences (Duquesne University)

Linda King, MD Assistant Professor of Medicine

David Levinthal, MD, PhD, Assistant Professor of Medicine

Jessica Merlin, MD, PhD, MBA, Associate Professor of Medicine

Sarah Ross, PhD Associate Professor of Neurobiology

Rebecca Seal, PhD Associate Professor of Neurobiology

Gwendolyn Sowa, MD, PhD Professor and Chair of Physical Medicine and Rehabilitation

Bradley Taylor, PhD Professor of Anesthesiology and Perioperative Medicine

Nam Vo, PhD Associate Professor of Orthopaedic Surgery

Ajay Wasan, MD, MSc Professor of Anesthesiology and Perioperative Medicine and Psychiatry