UTCSP Sponsored Conferences/Lectures/Symposia/Seminars

2017

UTCSP Annual Scientific Meeting 2017 – Tuesday, February 28, 2017

- Loren Martin: “Stress, pain and social interactions in mice”

Trainee Hot Topics:
- Errin Acland: “The Effect of Peripheral Nerve-Injury on Depressive and Anxiety-like Behaviors in Mice”
- Abigail D’Souza: “Non-ionotropic NMDA Receptor Signalling Relating to the Long-Term Facilitation in the Spinal Cord Dorsal Horn”
- Peter Hung: Diffusion tensor imaging signatures of chronic facial pain due trigeminal neuralgia
- Anton Rogachov: Reduced low frequency oscillations in the dynamic pain connectome of chronic pain patients with Ankylosing Spondylitis”

Panel: “Maximizing Prevention of Chronic Pain After Surgery”
- Hance Clarke, Joel Katz, Aliza Weinrib

Dr. Sanjeev Arora - “Democratizing Knowledge to Reduce Disparities in Healthcare” – March 3, 2017

UTCSP Translational Lecture Series:
“Transitioning from Acute to Chronic Pain – Changing Etiology and Treatment” – April 19, Speakers: Rob Bonin, Hance Clarke, Kasey Hemington

2016

UTCSP Annual Scientific Meeting 2016 – Tuesday, February 28, 2017
- Robert Bonin: “Reconsolidating memory traces of pain”
- Judy Watt-Watson: Web-based Pain Education: The PEIR Project
- Steven Prescott: “Why are pathological changes in sensory neuron excitability hard to reverse”

Trainee Hot Topics I:
- Rachel Bosma: “Brain and behavioral factors that predict treatment efficacy in chronic pain”
- Keynote: Gillian Hawker: “Busting the Myth that Joint Pain in Osteoarthritis is Just Old Age”

Trainee Hot Topics II:
- Husain Shakil: “Effects of Synaptic Disinhibition on Pain Processing”
- Anton Rogachov: “Regional brain signal variability is a novel indicator of brain health for
pain sensitivity and coping
- Gillian Einstein: “What do we know about sex differences in chronic pain: The role of ovarian harmonies”

**UTCSP Translational Lecture Series:**
Speakers: Fiona Campbell, David Scanlon, Stephanie Ratte, Sarasa Tohyama

**UTCSP Trainee Welcome Event** – September 13, 2016
Short talks by: Bonnie Stevens, David Lam, Hance Clarke, Rachael Bosma

**2015**

**UTCSP Annual Scientific Meeting 2015** – Tuesday, February 10, 2015
- Mike Salter: “A surprising twist in neuron-glia signaling in pain neuroplasticity”
- Hance Clarke: “Post-surgical neuropathic pain: The implementation of transitional pain service (TPS) to prevent the transition to chronicity following major surgery”
- Trainee Hot Topics I:
  - Marie-Andree Coulombe: “Functional connectivity of periaqueductal gray sub-regions”
  - Josiane Mapplebeck: “Sex differences in the spinal mechanism and underlying neuropathic pain”
- Keynote: Mark Ware, McGill University Health Centre: “The use of cannabinoids in pain management”

Trainee Hot Topics II:
- Chitra Lalloo: “ICanCope with Pain: Applying a user centred design approach to developing and evaluating an integrated smartphone and web-based program for youth and young adults with chronic pain”
- Andrea Furlan: “ECHO Ontario: Improving chronic pain management”

**UTCSP Trainee Welcome Event** – September 22, 2015
Short talks by: Bonnie Stevens, Hance Clarke, David Lam, Andrea Furlan

**UTCSP Translational Lecture Series:**
“Stress, Anxiety, and Pain” – November 10, 2015
Speakers: Loren Martin, Rae Dolman, Brittany Rosenbloom

**2014**

Cross Talks – “Pain in the Vulnerable Brain” - January 9, 2014
- Drs. Karen Davis: “The Brain and Individual Differences in Pain Perception”
- Steven Miller: “Pain and the Brain in Preterm Neonate”
- Jason Lerch: “Imaging Rapidly Changing Anatomy (and its role in pain)”
**UTCSP Annual Scientific Meeting 2014** – February 25, 2014

- **David Lam**: “Pain in Cancer Patients: Par for the Course? A Surgeon-Scientist’s Notes on Translational Pain Research”
- **Aileen Davis**: “After Total Knee Replacement: The “Pain” of Persistent Pain”
- **Trainee Hot Topics**
- **Keynote**: Ian Gilron, Kingston General Hospital: “Combination Pharmacotherapy for Pain”
- **Trainee Hot Topics**
- **Simon Beggs**: “Microglia and Pain: Beyond Immunity”

**UTCSP Trainee Welcome Event** – September 23, 2014

Short talks by: **Bonnie Stevens, Hance Clarke, David Lam, Andrea Furlan**

**UTCSP Translational Lecture Series:**

**“Personality and Sex Differences in Chronic Pain”** – November 5, 2014

Speakers: **David Lam, Josiane Mapplebeck, Marie-Andree Coulombe, Ruma Goswami**

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**2013**

**UTCSP Annual Scientific Meeting 2013** – February 26, 2013

- **Jennifer Stinson**: “Pain: There’s an app for that”
- **Mary Ellen Hogan**: “Determining the cost of chronic pain to the Ontario health system”
- **Mike Salter**: “Understanding pain mechanisms: What’s on the horizon?”
- **Aaron Kucyi**: “Human brain networks involved in the intrinsic salience of pain” –
- **Danielle DeSouza**: “Abnormal Peripheral Nerve and Brain White Matter Microstructure in Trigeminal Neuralgia”
- **Ruma Goswami**: “Sensorimotor Recovery, Chronic Pain, and Brain Plasticity Following Surgical Repair of Peripheral Nerve Injuries”
- **Erika Harding**: “Characterization and intracellular imaging of spinal cord lamina I neurons”
- **Gerald Gebhart**: “Visceral pain and hypersensitivity: Is it all in your head?”
- **Emma Duerden**: “Pain sensitivity in adolescents with autism spectrum disorder”
- **Tim Salomons**: “Cognitive modulation of pain: Towards a better understanding of mechanisms”
- **Panel**: **Being and Becoming a Pain Researcher**
  Moderators: **Mike Hildebrand and Sheila O’Keefe McCarthy**
  Panelists: **Karen Davis, Bonnie Stevens, Lucy Gagliese**

**Mechanisms of Neuropathic Pain: Insights From Animal and Human Research**
May 22, 2013

- **Kochi Iwata**: “Mechanisms in initiation and maintenance of orofacial pain
- **Michael Salter**: “What do studies of animal models/dorsal horn tell us about human neuropathic pain pathogenesis?”
- **Bud Craig**: “What are the higher brain centre mechanisms of neuropathic pain and what are the relative contributions of WDR vs NS neurons/lamina 1 vs 5 neurons in neuropathic pain mechanisms?
- **Andres Lozano**: “Thalamocortical processes in neuropathic pain – insights from electrophysiological studies in humans”
- **Karen Davis**: “What are the signatures/biomarkers of neuropathic pain?: Insights from human brain imaging studies”
- **Ze’ev Seltzer**: “To what extent are genetic factors involved in neuropathic pain?: insights from translational studies

**UTCSP Trainee Welcome Event** – October 1, 2013

Short talks by: Colin McCarthy, Hance Clarke

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2012

**UTCSP Annual Scientific Meeting 2012** – February 28, 2012

- **Dr. Ze’ev Seltzer**: “Pain phenomics and genomics”
- **Massieh Moayedi**: "Structural abnormalities in temporomandibular disorders"
- **Dr. Joel Katz**: “Sensitivity to Pain Traumatization: A Common Factor underlying Measures of Pain-Related Anxiety”
- **Mona Sawhney**: “Individualized pain education intervention versus usual care following inguinal hernia repair surgery”
- **Dr. Min Zhuo**: “Targeting cortical plasticity for the treatment of chronic pain”
- **Mike Hildebrand**: “Functional coupling between BDNF and NMDA receptors in spinal cord lamina I neurons following peripheral nerve injury”
- **Mary-Ellen Hogan**: “Vapocoolants for pain reduction in children and adults undergoing venipuncture or venous cannulation”
- **Aaron Kucyi**: "Right and left temporoparietal junctions exhibit different structural connectivity profiles"
- **Sheila O’Keefe-Mccarthy**: “Content Validity of the Toronto Pain Management Inventory-Acute Coronary Syndrome (ACS) Version”
- **Dr. Jeff Mogil**: “Social Modulation of and by Pain in the Laboratory Mouse.”
- **Dr. Tina Petrelli**
- **Dr. Michael McGillion**: “Nonischemic Chest Pain Following Successful PCI at a Regional Referral Centre in Southern Ontario”
- **Dr. Hance Clarke**: "The perioperative use of Gabapentin and Pregabalin: beyond opioid consumption and acute pain."

**UTCSP Trainee Welcome Event** – September 20, 2012
Short talks by: Bonnie Stevens, Colin McCarthy, Mike McGillion, Sharyn Switzer-McIntyre

*The Rap of Sickle Cell Disease – Inaugural Cross Talks* - November 7, 2012
- Kesten Petgrave – “Live it Up”
- Melina Cheong – “Sickle Cell Day Hospital”
- Dr. Bill Zempsky – “Drowning in a Sea of Pain”

2011

**UTCSP Trainee Welcome Event** – September 27, 2011
Short talks by: Bonnie Stevens, Colin McCarthy, Mike Slater

**“Doing Right: Pain & Ethics – Parts I & II** – October 27 & November 24, 2011
- Larry Librach, Hanna Kaufman, Barbara Russell,

2009

**UTCSP Inter-Hospital Bi-Monthly Pain Rounds**
Dr. Philip Pein – “Pudendal Neuralgia and Dr. Allan Gordon – “Vulvar Pain and Botulinum Toxin Type A” – February 12, 2009
Dr. Angela Mails – April 16, 2009

**UTCSP Pain Day 2009** – December 11, 2009
- Maria Brunello - “The thermal grill illusion from different body regions”
- Tim Salomons - "Perceived controllability modulates the neural and affective response to pain"
- Barry Sessle - “Chronic Pain: Issues and Initiatives”
- Gary Bennett - "Mitotoxicity as the cause of chemotherapy-evoked painful peripheral neuropathy"
- Monica Parry - "Can peer support affect the pain experience of individuals after cardiac surgery?"
- Rob Bonin - “δGABA-A receptors regulate the excitability of spinal neurons and nociception”
- Bonnie Stevens – “Understanding Translation In Knowledge Translation In Pain In Children”
2008


*Great Lakes G Protein-Coupled Receptor Conference* – Bromont, Quebec - October 16-18, 2008


- **Pavel Cherkas** – “Orofacial Pain Mechanisms: Role of Purinergic Receptors in Trigeminal Central Sensitization”
- **Lynn Gauthier** – “Acceptance of pain: a study in patients with advanced cancer”.
- **Fernando Cervero** – “Neuroplasticity and pain: the theory of the evidence”
- **Thuan Dao** – “An overview of orofacial neuropathic pain”
- **Chun Kwan** – “Changes in blood spinal cord barrier permeability following peripheral nerve injury”
- **Udi Blankstein** – “Structural MR imaging of gray matter in Irritable Bowel Syndrome”
- **Colin McCartney** – “Pain after Surgery: still crazy after all these years!”

2007

**Pain and the Older Person National Speaker Series** – May–November, 2007

Speakers: Dr. Lucy Gagliese, Dr. Allan Gordon, Dr. David Lussier, Dr. Mary Lynch, Dr. Patricia Morley-Forster, Dr. John Clark, Dr. Roger Schick

**Dr. Jeffrey Mogil** – “Pain Genetics and Sex” – March 21, 2007

**Dr. Lucy Gagliese** and **Dr. Allan Gordon** – “Pain Management and the Older Person” – April 25, 2007

**Dr. Dwight Moulin** – “Evidence-based Guidelines for the Management of NeP” – May 10, 2007

**Dr. Alain Woda** – “Is burning mouth syndrome a degenerative neuronal disease that is induced by changes in endogenous steroid?” – May 30, 2007

**Dr. Geoff Burnstock** – “Purinergic Signalling: past, present and future” – June 1, 2007

**Dr. Allan Gordon** – “Putting Neuropathic Pain on the Podium” – October 30, 2007

**UTCSP Pain Day 2007** – December 6, 2007

- **Simon Beggs** - “Lamina I output changes following nerve injury and microglial stimulation
- **Tricia Kavanagh** - “Appreciative Inquiry: An Interactive Organizational Intervention to - Translate Acute Pain Management Research into Pediatric Nursing Practice”
- **Herta Flor** - “Fibromyalgia: learning, brain plasticity and treatment implications”
- **Allan Gordon** – “Management of Central Neuropathic Pain”
- **Tina Elahipanah** – “Mapping a gene for neuropathic pain in the Pain1 QTL”
- **Janet Yamada** – “Process Evaluation of Evidence Based Practice, Identification and - Change (EPIC) Intervention to Improve Neonatal Pain Practice”
- **Judy Watt-Watson** – “Pain management after cardiac surgery”

2006
Dr. Mike Salter – “Spinal Mechanisms Underlying Neuropathic Pain” and Dr. Angela Mailis - Ethno-Cultural Issues in Pain – MUPPUT - April 20, 2006

Synapses, Memory, Drug Addiction, Pain - August 21-23, 2006 Toronto

Pain and the Older Person Symposium – November 9, 2006
- Gillian Hawker - “Pain in Older Adults with Osteoarthritis”
- Debra Weiner - “What Causes Disability in Older Adults with Chronic
- Lucia Gagliese - “Cancer pain, aging and end-of-life care
- C. Peter Watson - “Postherpetic Neuralgia in Older People”
- Rachel Weisz and Allan Gordon - “Living with Neuropathic Pain”

Dr. Min Zhuo – “Genetic and synaptic mechanisms for chronic pain and fear” – MUPPUT - November 23, 2006

UTCSP Pain Day 2006 – December 12, 2006
- Jennifer Stinson - “Construct Validity and Responsiveness of the e-Ouch Electronic Pain Diary for Adolescents with Arthritis”
- Javeria Hashmi – “Temporal dynamics of heat pain evoked sensation”
- Xuejun Liu - "Pimary afferents and TRPV1: more than just sensory function"
- Joel Katz – “Postoperative analgesic and opioid sparing effects of low-dose ketamine”
- Karen Davis – “Functional MRI of pain is not the whole story – what can we learn from structural MRI?”
- Hance Clarke – “The use of Gabapentin in acute pain and rehabilitation
- Limor Avivi-Arber – “Motor Cortex Neuroplasticity Associated with Extraction of the Rat Mandibular Incisor”

2005

Mini-symposium on Pain – June 17, 2005
- Luis Garcia Larrea – “Modulation of acute pain perception by changing emotional context: Is it the sensation or what we recall of it?”
- Chun Kwan – “Abnormal rectal physiology, psychophysics and forebrain activity in individuals with irritable bowel syndrome (IBS)?”
- Long-Jun Wu – “Forebrain NMDA NR2B receptors in synaptic potentiation and persistent Pain”
- David Lam – “Neural mechanisms of joint and muscle pain: A possible role for peripheral glutamate receptor mechanisms”
- Xuejun Liu – “A critical role of tyrosine kinase Src in pain sensitization”
- Ruslan Dorfman – “Genes for pain in a limb that is lost”
- Ulf Baumgartner – “Laser evoked potentials – basics and clinical applications”
The Psychosocial Impact of Pain on the Individual and Family – November 3, 2005
- Allan Gordon and Minerva Cook – “The Pain Makes Me Want to End My Life”
- Alex Jadad – “Supportive and End of Life Care in the Age of the Internet: Towards a High-tech High-touch World”
- Patrick McGrath – David Fear Memorial Lecture: “Technology’s role in decreasing the impact on the child and family”

UTCSP Pain Day 2005 – December 15, 2005
- Keri Taylor – “Can tactile and pain-related fMRI activation be identified reliably in individual subjects across repeated sessions: Exploration of threshold- and non-threshold-dependent methods”
- Mike McGillion – “A psychoeducation trial for people with chronic stable angina”
- Nicole Carmichael – “Botox and sumatriptan – can they be used to reduce inflammation?”
- Mike Salter – “The emerging role of microglia in neuropathic pain”
- Lucy Gagliese – “Age-related patterns in cancer pain”
- Kujumon Vadakkan – “A behavioral model of neuropathic pain induced by ligation of the common peroneal nerve in mouse”
- Shihong Zhang – “Behavioural and electrophysiological evidence for the analgesic efficacy of Ralfinamide – a novel Nav 1.8 channel blocker”

2004

Dr. Marvin Schwart - “The use of Botox for the treatment of myofascial neck pain” and Angela Mailis – “Posttraumatic painful torticollis: What is it and how is it related to cervical dystonia?” – MUPPUT - February 19, 2004
Dr. Karen Berkley - "Mechanisms of Pelvic Pain in Females" – March 11, 2004
Dr. Larry Biggin – “Computerized Thermal Imaging” MUPPUT – April 22, 2004
Prof. Lars Arendt-Nielsen – “Pain Assessment: Clinical and Experimental Applications” – April 30, 2004

Advanced Pain Research Methodologies School: Understanding Pain Mechanisms
PM2C and London (UK) Pain Consortium – Madrid Spain, June 19-23, 2004
Dr. Koicha Iwata – “Anterior Cingulate Cortex and Pain” – August 25, 2004

Great Lakes G Protein Coupled Receptor Conference - Bromont, Quebec – Nov 5-7, 2004
Dr. Andrew Moore – “Evidence-based Medicine in Pain Assessment and Management” – September 30, 2004

Pain & the Patient Symposium – November 3, 2004
- The Patient Advisory Group of the Wasser Pain Management Centre - “Why it is important to treat my pain”
- Roman Jovey – “Using opiates for chronic pain”
- Douglas Gourlay - “Managing pain and addiction”
- Mark Ware – “Does cannabis work for chronic pain?”
- Allan Gordon - “What is neuropathic pain?”
- Ted Robinson - “Cognitive behavioural therapy for chronic pain”

**UTCSP Pain Day 2004** – December 7, 2004
- Jindong Xu – “Regulation of NMDA receptors by c-terminal Src kinase (cks)”
- Victor Cheng – “The GABAergic Tonic Current is Sensitive to Modulation by Gabapentin”
- Rebecca Pillai Riddell – “New Directions in Infant Pain”
- Patricia Orr-Kavanagh – “The Use of Pain Research by Nurses for the Management of Acute Pediatric Pain”
- Shana Ko – “Evidence for the role of CaIMKIV in opioid tolerance but not dependence”

**2003**

Dr. Ze’ev Seltzer – “Is Chronic Pain A Somatosensory Epilipsy?” – MUPPUT - February 27, 2003

*Pain Summer School – Pain M2C and PICH* – Millcroft Inn - May 19-21, 2003

Dr. Manon Choinière - Jeffrey Posluns Lecture 2003 – “Inadequate Pain Treatment: A Silent Epidemic” – May 21, 2003

*Pain Plasticity Symposium* – Toronto - May 22, 2003


Dr. Miriam Grushka and Dr. Barry Sessle – “Insights into the mechanism, diagnosis and treatment of Burning Mouth Syndrome” – MUPPUT - October 23, 2003

**UTCSP Pain Day 2003** – December 10, 2003
- Dr. David Lam – “Peripheral glutamate receptor mechanisms in tempormandibular joint and muscle pain”
- Judith Hunter – “Phantom limb pain”
- Andrea Furlan – “A critical appraisal of the traditional taxonomy of study design”
- Min Zhuo – “The cingulate cortex and pain”
- Bonnie Stevens – “The management of pain in infants and children with neurological and cognitive impairments”
- Jackie Bender – “Improving communication during the management of cancer pain: what do patients want to know?”
- Makoto Tsuda – “An ionotropic ATP receptor expressed in spinal microglia contributes to tactile alldynia after nerve injury”
Dr. Mike Salter - "Microglia - a novel player in neuropathic pain" and Dr. Peter Watson – "Neuropathic Pain: Pharmacotherapy" – MUPPUT - December 18, 2003

2002

Dr. Thuan Dao - “Pain and Gender” – MUPPUT - February 28, 2002
Dr. Alex Jadad - “E-Health: Implications for Pain Management and Research – MUPPUT - April 25, 2002
Dr. Peter Keir and Dr. Anne Moore - “Repetitive Strain Injury” – MUPPUT - May 16, 2002
Dr. Dean Tripp – “Catastrophizing and Acute Posteropative Pain in Athletes” – June 28, 2002
Dr. Min Zhuo – “Synaptic and genetic analyses of mechanisms for persistent pain and memory: from synapse to behavior” – July 24, 2002

Great Lakes G Protein Coupled Receptor Conference -Ann Arbor, Michigan – Oct. 18-20, 2002

Dr. Anna Taddio – “Exploring the relationship between acute procedural pain and subsequent pain” – MUPPUT - October 25, 2002
Dr. Brian Cooper – “Nociceptor Subspecialization in the Dorsal Root Ganglion: E Pluribus 9” – November 13, 2002

2001

Dr. Allan Gordon and Dr. Mary Jane Esplen – “Neurological and Psychological Aspects of Chronic Pelvic Region Pain” – MUPPUT - January 17, 2001
Dr. Gary Lewin – “Identifying Molecules in Peripheral and Central Nociception” – Mar. 1, 2001

UTCSP Pain Day 2001 - March 21, 2001
- Dr. Mike Salter, Director, UTCSP – Opening Remarks
- Dr. Ursula Wessellmann - “Chronic pelvic pain – from difficult clinical problem to the development of an animal model”
- Dr. Judy Watt-Watson - “Interventions in Pain Management”
- Dr. Alan Gordon – “Research directions at the Wasser Pain Management Clinic”
- Dr. James L. Henry – “Antisense oligonucleotide knockdown of NK-1 receptors in the study of pain mechanisms”
- Dr. Judy Watt-Watson – “Pain IPE Week – March 18-22, 2002”
- Dr. Karen Davis – “fMRI of pain and attention: an update”
- Dr. Angela Mailis – “Pain research activities at the Comprehensive Pain Program at the Toronto Western Hospital, University Health Network”
- Dr. Jonathan Dostrovsky – “The thalamus and central pain”
- Dr. Lucia Gagliese – “Pain in the elderly”
- Dr. Alex Jadad – “eHealth innovation: implications for pain relief research and education”
- Dr. Weiyang Lu – “Modulation of visceral pain by the vagal afferent system”
Dr. Ze’ev Seltzer - "Neurogenetics of pain: from animal models to chronic pain in humans" - April 26, 2001
Dr. Ian Meng - “Contribution of the amygdala to cannabinoid analgesia – May 3, 2001
Dr. David Andrew – “Spinal chord mechanisms of itch and pain: modality-selective spinothalamic lamina 1 neurons” – May 28, 2001
Dr. Usula Wesselmann “Reflex Sympathetic Dystrophy: Confusing Symptoms and Puzzling Pathology - Thursday, June 28, 2001
Dr. Ursula Wesselmann - “New Treatment Strategies for Chronic Pelvic Pain: Clinical Data and a Novel Animal Model” - Thursday, June 28, 2001
Dr. Ursula Wesselmann - “Chronic Visceral Pain: The Role of the Neurologist” – June 29, 2001
Dr. Gary Lewin - “Molecular complexes that determine sensory modality” - June 25, 2001
Dr. Martin Koltzenberg – “The Role of Nociceptors in Chronic Pain” – Nov. 20, 2001
Dr. Mary Lynch - The Jeffrey Posluns Lecture 2001 - “Cannabinoids in the management of pain: where are we now and where are we going” – December 5, 2001

2000

Dr. Ronald Dubner – “Unraveling the Puzzle of Persistent Pain” – February 2, 2000
Dr. Lucy Gagliese and Lisa Hamilton – “Pain and Aging” – MUPPUT - February 16, 2000
Inter-Urban Association of Ontario Conference – March 24, 2000
Paediatric Pain Day – Hospital for Sick Children – March 31, 2000
Dr. John Edmeads, Dr. Marek Gawel, Dr. Barry Sessle, Dr. Johnathan Dostrovsky – “Headache: Clinical Perspectives and Basic Science” – MUPPUT April 12, 2000
Dr. Siegfried Mense – “Neuroplastic Changes in Spinal Chord Induced by Peripheral Myositis: the Role of NO” – June 6, 2000
Dr. Bonnie Stevens – “Neonatal Pain” – MUPPUT - June 7, 2000
Dr. Beverly Orser and Dr. Peter Pennefather – “Anaesthesia and Analgesia: Perspectives from Clinical and Basic Science” – MUPPUT - September 20, 2000
Dr. Greg Ross – “Antiallodynic Actions of Neurotophin Antagonists” – October 17, 2000
Dr. Bjorn Meyerson – “Pain – Friend and Foe” – November 17, 2000
Neuropathic Pain Workshop – November 17-18, 2000
Dr. Herman Handwerker – “Novel classes of nociceptors in human skin – implications for the pathophysiology of pain” – November 20, 2000
Dr. Angela Mailis – “Non-dermatomal Somatosensory Deficits and Pain: Clinical and fMRI Findings – MUPPUT - November 22, 2000

2000 Posluns Lecture Series – Dr. Alan Purdy – November 28-20, 2000:
“Acute Migraine 2000: Where Are We and Where Are We Going”
“Diagnosis and Evaluation of Headache”
“Case Discussion”
“The Pathophysiology of Migraine – A Clinician’s View”
“Two Patients with Challenging Headache Disorders”


**1999**

**Dr. Michael Salter** – “Molecular Pain Research: Implications for Pain Drug Therapies” MUPPUT – October 13, 1999

**Dr. Patrick McGrath** – “Psychological treatment of pain in children” – Nov. 12, 1999

**Dr. Allan Basbaum** – “The neurochemistry of acute and persistent pain” – Nov. 12, 1999

**Dr. Larry Librach** and **Cynthia Struthers** – “Cancer Pain Education: What Works” – MUPPUT December 15, 1999