

**CURRICULUM VITAE**  
**University of Alabama at Birmingham**  
**School of Medicine**

April 1, 2022

**PERSONAL INFORMATION:**

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**RANK/TITLE:** Professor Emeritus

Department: Anesthesiology  
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**EDUCATION:**

University of Iowa College of Medicine Iowa City, Iowa	M.D., Ph.D. (Pharmacology)	8/83-12/88
Luther College Decorah, Iowa	B.A. (Biology/Chemistry) Summa Cum Laude	8/78-5/82

**POSTDOCTORAL TRAINING:**

01/01/89-01/01/93	Anesthesia Residency, Department of Anesthesia The University of Iowa Hospitals and Clinics, Iowa City, IA
01/01/93-12/31/93	Fellow in Pain Management, University of Iowa Pain Clinic The University of Iowa Hospitals and Clinics, Iowa City, IA

**ACADEMIC APPOINTMENTS:**

- 1/1/93 - 12/31/93 Fellow Associate, Department of Anesthesia  
University of Iowa College of Medicine, Iowa City, IA
- 01/01/94 - 05/31/95 Associate, Department of Anesthesia  
University of Iowa College of Medicine, Iowa City, IA
- 06/18/95 - 6/30/98 Assistant Professor, Department of Anesthesiology  
University of Alabama at Birmingham, Birmingham, AL
- 07/1/98 – 09/30/99 Associate Professor, Department of Anesthesiology  
University of Alabama at Birmingham, Birmingham, AL
- 10/01/99 – 11/01/02 Associate Professor with Tenure, Department of Anesthesiology  
University of Alabama at Birmingham, Birmingham, AL
- 11/01/02 – 07/01/19 Simon Gelman Endowed Professor, Department of Anesthesiology  
University of Alabama at Birmingham, Birmingham, AL
- 6/18/95 – 07/31/07 Co-Director, Fellowship in Pain Medicine, Department of Anesthesiology  
University of Alabama at Birmingham, Birmingham, AL
- 10/01/03 – 07/01/19 Professor with Tenure, Department of Anesthesiology  
University of Alabama at Birmingham, Birmingham, AL  
Co-Appointments in Department of Physical Medicine & Rehabilitation  
and in the Department of Psychology (College of Arts & Sciences)
- 08/01/06 – 09/17/07 Interim Director, Pain Medicine Clinic, Department of Anesthesiology  
University of Alabama at Birmingham
- 09/14/06 – 09/17/07 Interim Vice Chair, Division of Pain Medicine  
Department of Anesthesiology, University of Alabama at Birmingham
- 10/01/07 – 10/15/14 Director of Pain Research, Division of Pain Medicine  
Department of Anesthesiology, University of Alabama at Birmingham
- 06/01/08 – 10/01/10 Co-Director, Resident Academic Achievement Program Department of  
Anesthesiology, University of Alabama at Birmingham
- 10/01/10 – 06/01/19 Chair, Appointments, Promotions and Tenure Committee  
Department of Anesthesiology, University of Alabama at Birmingham
- 06/01/15 – 03/01/18 Director, Clinician Academic Achievement Program  
Department of Anesthesiology and Perioperative Medicine  
University of Alabama at Birmingham

**ACADEMIC APPOINTMENTS (cont'd):**

- 06/01/15 – 03/01/18 Vice Chair for Clinical Research  
Department of Anesthesiology and Perioperative Medicine  
University of Alabama at Birmingham
- 12/01/15 – 03/01/18 Director, Resident Mentored Research Experience Program  
Department of Anesthesiology and Perioperative Medicine  
University of Alabama at Birmingham
- 12/02/15 – Present Senior Scientist  
UAB Center for Palliative and Supportive Care
- 10/01/2019-Present Professor Emeritus; Clinical Professor  
UAB School of Medicine

**CERTIFICATION:** American Board of Anesthesiology – Anesthesiology - Sept. 1994 (#24788)  
American Board of Anesthesiology – Pain Management – Until 2028  
American Board of Anesthesiology – participating in MOCA

**PROFESSIONAL SOCIETIES:**

American Pain Society (Member, Board of Directors 4/2014-2017; Chair, Task Force on  
Translational Research; Nominating Committees, ad hoc Committees)  
United States Association for the Study of Pain (Member)  
American Society for Regional Anesthesia (Member, Board of Directors 2003-2008)  
International Anesthesia Research Society (Member, grant reviewer)  
Society for Neuroscience (Member)  
International Association for the Study of Pain (IASP)  
-Chair, Global Year of Visceral Pain Org. Committee 2012-2013  
-IASP Task Force on Pain Measurement,

**REVIEWER:**

**Journal Editorial Activity**

Associate Editor: Journal of Pharmacology and Experimental Therapeutics (2013-2016)  
Editorial Board - Journal of Pain  
Associate Editorial Board – Pain  
Associate Editorial Board – Frontiers in Neuroscience  
Previous Editorial Board – Regional Anesthesia and Pain Medicine  
Previous Associate Editorial Board – Anesthesiology  
Referee: Cochrane Renal Group

**Books**

Editor: Women in Pain – with May Chin and Roger Fillingim, 2013

Section Editor: Fishman SM, Ballantyne JC, Rathmell JP. Bonica's Management of Pain, 4<sup>th</sup> &  
5<sup>th</sup> Editions: Lippincott, Williams & Wilkins, 2009, 2018

### **Review Committees**

- Standing NIH Study Section (Urol. SEP/UKGD) July 2002-2008
- NIH ad hoc study sections - June, 1998-present (2-3 yearly)
- P2RMIS ad hoc study sections – 2015 – present (irregular)
- VA Merit Award ad hoc grant reviewer (multiple cycles)
- Canadian Merit Award System
- Swiss National Research Foundation
- Medical Research Grants Council (London) ad hoc grant reviewer
- Research Grants Council (Hong Kong) ad hoc grant reviewer
- Rustveli National Science Foundation (Republic of Georgia)
- John Sealy Memorial Endowment Fund for Biomedical Research, UTMB
- Oklahoma Health Sciences Research Grants

### **EXTERNAL GRANT SUPPORT (as PI, Co-PI):**

NIDDK-R01DK51413: “Quantitative Studies of Urinary Bladder Sensation.” Ness (PI)  
07/25/97 – 06/30/2023 – Current Direct Costs - \$220,000/year

MERCK, INC. – Use of Sugammadex in ASA3 and ASA4 subjects. Contract per patient.  
10/01/2018 – 05/31/2019.

MEDTRONIC, INC. A1327753:GG: “High Frequency Spinal Cord Stimulation on Nociceptive Responses in Rats – Concept Synopsis” Ness (PI) 01/20/17 – 12/31/18 – \$180,000/total contract.

MEDTRONIC, INC. “Spinal Cord Stimulation for the Treatment of Bladder Pain” Ness (PI) -  
4/01/2016-1/20/2017 - \$35,000 for contract.

WU-15-203: “Multidisciplinary Approach to Pelvic Pain II (MAPP II). Ness (consultant – local PI) 07/01/2014 – 06/30/2019. NIH/NIDDK U01 Subcontract Direct Annual Costs - \$21,406.

MEDTRONIC, INC. A1055662 002: Effects of GABA-B Receptor Agonist on Bladder Pain Reflex Responses in the Rat.” Ness (PI) 09/01/2015 – 08/31/2016 – Direct costs - \$50,000 for contract.

NIEHS-R21: “Finding Effective Treatments for Inhaled Chlorine-Induced Pain” Ness (Co-PI)  
07/01/2012-08/30/2015. Direct costs \$250,000/yr

MEDTRONIC, INC. “Spinal Nerve Stimulation for the Treatment of Bladder Pain” Ness (PI) -  
4/2012-9/2019 – Quarterly increments - \$15-20,000 x multiple subcontracts.

NIDDK-U01 subcontract (Washington Univ) “Multidisciplinary Approach to Pelvic Pain” Ness  
(subcontract PI) 07/01/2007-06/30/2014. Direct costs \$150,000/year.

DOD-W81XWH-11-1-0452 “Intranasal Oxytocin for the Treatment of Pain Associated with Interstitial Cystitis” Robbins (PI) – role Co-PI. 09/01/11-09/30/14

**EXTERNAL GRANT SUPPORT (as PI, Co-PI – cont'd):**

VERTEX, INC. (contract) – “Effect of V-11-023911 on Bladder Pain Reflex Responses in the Rat” Ness (PI) 01/01/2011-12/31/2011; \$50,000.

MERCK, INC - MK-0869 Study 121-00: “A Double-blind, Randomized, Placebo-controlled, Two-part Study to Evaluate a Method of Inducing Bladder Sensation and Pain and the Effects of Oxycodone and MK-0869 versus Placebo on Induced Bladder Sensation and Pain in Healthy Subjects.”

NIH R21: R. Fillingim (PI, Florida) Ness (Co-PI, UAB) and Lloyd (Co-I). “Menstrual Cycle Effects on Urinary Bladder Pain.” 2000-2003 – UAB direct costs \$75,000/year.

Interstitial Cystitis Association: Ness (PI), “Relationship between Lactogenic Hormones and Stress in Interstitial Cystitis”. \$25,000. 11/1/06 – 10/31/08.

UAB GCRC Seed Grants. Ness (PI) Fillingim (Co-PI) Pilot Study of Sex and Menstrual Cycle Effects on Pain and Analgesia. July 1999. \$16,680.

ANESTA Corporation "An Open-Label, Long-Term, Multi-Center Study of Oral Transmucosal Fentanyl Citrate (OTFC) for the Treatment of Breakthrough or Incident Pain in Cancer Patients Previously Enrolled in Other OTFC Studies." 1996, \$3,808.

ANESTA Corporation "A Multi-Center, Double-Blind, Placebo Controlled Crossover Study of Oral Transmucosal Fentanyl Citrate (OTFC) for the Treatment of Breakthrough Pain in Cancer Patients Taking Stable Doses of Oral Opioids." 1996, \$12,816.

American Cancer Society Institutional Mini-Grant "Quantitative Effects of Non-Opioid Analgesics in Morphine-Tolerant Rats." 02/01/96-01/31/97, \$10,000.

Foundation for Anesthesia Education and Research Starter Grant "The Effect of Drug Treatment on Spinal Cord Stimulation-Produced Analgesia." 01/01/96-12/31/96, \$25,000.

American Society of Regional Anesthesia Young Investigator's Award "Quantitative Studies of Visceral Pain Using a Model of Spinal Analgesia." 1994, \$10,520.

Koller Grant (American Society of Regional Anesthesia) "Parallel Human Psychophysical and Animal Neurophysiological Studies of the Effects of Intravenous Lidocaine on Pain Sensation." 1996, \$3,800.

## **BIBLIOGRAPHY:**

### **Manuscripts:**

1. **Ness TJ**, Gebhart GF. Centrifugal modulation of the rat tail flick reflex evoked by graded noxious heating of the tail. *Brain Res* 386:41-52, 1986.
2. **Ness TJ**, Gebhart GF. Characterization of neuronal responses to noxious visceral and somatic stimuli in the medial lumbosacral spinal cord of the rat. *J Neurophysiol* 57:1867-92, 1987.
3. **Ness TJ**, Gebhart GF. Quantitative comparison of inhibition of visceral and cutaneous spinal nociceptive transmission from the midbrain and medulla of the rat. *J Neurophysiol* 58: 850-865, 1987.
4. **Ness TJ**, Jones SL, Gebhart GF. Contribution of the site of heating to variability in the latency of the rat tail flick reflex. *Brain Res* 426:169-171, 1987.
5. **Ness TJ**, Gebhart GF. Colorectal distension as a noxious visceral stimulus: physiologic and pharmacologic characterization of pseudoaffective reflexes in the rat. *Brain Res* 450:153-169, 1988.
6. Anderson RH, **Ness TJ**, Gebhart GF. A distension control device useful for quantitative studies of hollow organ sensation. *Physiol Behav* 41:635-638, 1988.
7. **Ness TJ**, Gebhart GF. Characterization of neurons responsive to noxious colorectal distension in the T13-L2 spinal cord of the rat. *J Neurophysiol* 60:1419-1438, 1988.
8. **Ness TJ**, Gebhart GF. Differential effects of morphine and clonidine on visceral and cutaneous spinal nociceptive transmission in the rat. *J Neurophysiol* 62:220-230, 1989.
9. **Ness TJ**, Gebhart GF. Characterization of superficial T13-L2 dorsal horn neurons encoding for colorectal distension in the rat: comparison with neurons in deep laminae. *Brain Res* 486:301-309, 1989.
10. **Ness TJ**, Gebhart GF. Visceral pain: a review of experimental studies. *Pain* 41:167-234, 1990.
11. Meller ST, Lewis SJ, **Ness TJ**, Brody MJ, Gebhart GF. Vagal afferent-mediated inhibition of a nociceptive reflex by intravenous serotonin in the rat. I. Characterization. *Brain Res* 524:90-100, 1990.
12. **Ness TJ**, Metcalf AM, Gebhart GF. A psychophysiological study in humans using phasic colonic distension as a noxious visceral stimulus. *Pain* 43:377-386, 1990.
13. Meller ST, Lewis SJ, **Ness TJ**, Brody MJ, Gebhart GF. Neonatal capsaicin treatment abolishes the nociceptive responses to intravenous 5-HT in the rat. *Brain Res* 542:212-218, 1991.

14. **Ness TJ**, Gebhart GF. Interactions between visceral and cutaneous nociception. I. Noxious cutaneous stimuli inhibit visceral nociceptive neurons and reflexes. *J Neurophysiol* 66:20-28, 1991.
15. **Ness TJ**, Gebhart GF. Interactions between visceral and cutaneous nociception in the rat. II. Noxious visceral stimuli inhibit cutaneous nociceptive neurons and reflexes. *J Neurophysiol* 66:29-39, 1991.
16. **Ness TJ**, Randich A, Gebhart GF. Further behavioral evidence that colorectal distension is a "noxious" visceral stimulus in the rat. *Neurosci Letts* 131:113-116, 1991.
17. Gebhart GF, **Ness TJ**. Central mechanisms of visceral pain. *Can J Physiol Pharmacol* 69:627-634, 1991.
18. **Ness TJ**. Oral Transmucosal Fentanyl Citrate. Primary draft (final draft credited to Editorial Board) *The Medical Letter* 1994.
19. **Ness TJ**. Historical and clinical perspectives of visceral pain. *Prog Pain Res Manage* 5: 3-23, 1995.
20. **Ness TJ**, Crimaldi JC, McDanal JT. Case report on gabapentin. *Reg Anesth* 23:110-111, 1998.
21. Yang S-W, Follett KA, Piper JG, **Ness TJ**. The effect of morphine on responses of mediodorsal thalamic nuclei and nucleus submedius neurons to colorectal distension in the rat. *Brain Res* 779: 41-52, 1998.
22. **Ness TJ**, Follett KA. The development of tolerance to intrathecal morphine in models of visceral and cutaneous pain. *Neurosci Letts* 248:33-36, 1998.
23. **Ness TJ**, Richter HE, Varner RE, Fillingim RB. A psychophysical study of discomfort produced by repeated filling of the urinary bladder. *Pain* 76:61-69, 1998.
24. **Ness TJ**, Follett KA, Piper JG, Dirks BA. Characterization of neurons in the area of the medullary lateral reticular nucleus responsive to noxious visceral and cutaneous stimuli. *Brain Res* 802:163-174, 1998.
25. **Ness TJ**, San Pedro EC, Richards JS, Kezar L, Liu HG, Mountz JM. A case of spinal cord injury-related pain with baseline rCBF brain SPECT imaging and beneficial response to gabapentin. *Pain* 78:139-143, 1998.
26. **Ness TJ**. Models of visceral nociception. *ILAR Journal*. 40:119-128, 1999.
27. Yang S-W, Follett KA, Piper JG, **Ness TJ**. The effect of morphine on responses of nucleus ventroposterolateralis neurons to colorectal distension in the rat. *Brain Res Bull* 48:609-614, 1999.

28. **Ness TJ**, Piper JG, Follett KA. The effect of spinal analgesia on visceral nociceptive neurons in caudal medulla of the rat. *Anesth Analg* 89:721-726, 1999.
29. **Ness TJ**. Kappa opioid receptor agonists differentially inhibit two classes of rat spinal neurons excited by colorectal distension. *Gastroenterology* 117:388-394, 1999.
30. Hedderich R, **Ness TJ**. Analgesia for trauma and burns. *Crit Care Clinics* 15: 167-184, 1999.
31. **Ness TJ**, Gebhart GF. Acute inflammation differentially alters the activity of two classes of rat spinal visceral nociceptive neurons. *Neurosci Lett* 281:131-134, 2000.
32. Fillingim R, **Ness TJ**. Sex-related hormonal influences on pain and analgesic responses (Review) *Biobehavioral Reviews* 24:485-501, 2000.
33. **Ness TJ**, Fillingim RJ, Randich A, Backensto EM, Faught E. Low intensity vagal nerve stimulation lowers human thermal pain thresholds. *Pain* 86:81-85, 2000.
34. **Ness TJ**. Intravenous lidocaine inhibits visceral nociceptive reflexes and spinal neurons in the rat. *Anesthesiology* 92:1685-1691, 2000.
35. **Ness TJ**. Evidence for ascending visceral nociceptive information in the dorsal midline and lateral spinal cord. *Pain* 87:83-88, 2000.
36. **Ness TJ**. Review of novel aspects of pain management: opioids and beyond (letter). *Anesthesiology* 93(3):912, 2000.
37. Fillingim RB, **Ness TJ**. The influence of menstrual cycle and sex hormones on pain responses in humans. *Prog Pain Res Manage* 17: 191-207, 2000.
38. **Ness TJ**. Chronic urological pain syndromes. *Current Pain and Headache Reports* 5:27-34, 2001.
39. **Ness TJ**, Gebhart GF. Inflammation enhances reflex and spinal neuron responses to noxious visceral stimulation in rats. *Am J Physiol Gastrointest Liver Physiol* 280:G649-G657, 2001.
40. Castroman P, **Ness TJ**. Vigor of visceromotor responses to urinary bladder distension in rats increases with repeated trials and stimulus intensity. *Neurosci Letts* 306:97-100, 2001.
41. **Ness TJ**, Lewis-Sides A, Castroman P. Characterization of pressor and visceromotor reflex responses to bladder distension in rats: sources of variability and effect of analgesics. *J Urol* 165:968-974, 2001.
42. **Ness TJ**, Randich A, Fillingim R, Faught E, Backensto EM. Left vagus nerve stimulation suppresses experimentally induced pain (letter to editor). *Neurology* 56:985-986, 2001.



43. **Ness TJ.** Pharmacology of peripheral analgesics. *Pain Practice* 1:243-254, 2001.
44. Kezar L, **Ness TJ.** Systemic medications. *Topics in SCI Rehabilitation* 7:57-72, 2001.
45. **Ness TJ,** Castroman P. Evidence for two populations of rat spinal nociceptive neurons excited by urinary bladder distension. *Brain Res* 923:147-156, 2001.
46. **Ness TJ,** Putzke JD, Liu H-G and Mountz JM. Examples of the use of gabapentin in the treatment of spinal cord injury pain. *Prog Pain Res Manage* 23:379-392, 2002
47. Rose M, **Ness TJ.** Hypoxia following interscalene block (case report). *Reg. Anes. Pain Med.* 27:94-96, 2002.
48. Putzke JD, Richards JS, Kezar L, Hicken BL, **Ness TJ.** Long-term use of gabapentin for treatment of pain after traumatic spinal cord injury. *Clin J Pain* 18:116-121, 2002.
49. **Ness TJ,** Jones L, Smith H. Use of compounded topical analgesics: Results of an internet survey. *Reg Anes Pain Med* 27:309-312, 2002.
50. Putzke JD, Richards JS, Hicken B, **Ness TJ,** Kezar L, DeVivo MJ. Pain classification following spinal cord injury: the utility of verbal descriptors. *Spinal Cord* 40:118-127, 2002.
51. Castroman P, **Ness TJ.** Ketamine, an N-methyl-D-aspartate antagonist, inhibits the reflex responses to distension of the rat urinary bladder. *Anesthesiology* 96:1401-1409, 2002.
52. Castroman P, **Ness TJ.** Ketamine, an N-methyl-D-aspartate antagonist, inhibits the spinal neuronal responses to distension of the rat urinary bladder. *Anesthesiology* 96:1410-1419, 2002.
53. Castroman P, **Ness TJ.** Spinal neurophysiologic correlates of the analgesic actions of intravesical dimethyl sulfoxide and capsaicin in the rat. *J Pain* 3(5):394-400, 2002.
54. Richards JS, Hicken B, Putzke JD, **Ness TJ,** Kezar L. Reliability characteristics of the Donovan spinal cord injury pain classification scheme. *Arch Phys Med Rehab* 83(9):1290-1294, 2002.
55. Edwards R, Fillingim R, **Ness T.** Age-related differences in endogenous pain modulation: a comparison of diffuse noxious inhibitory controls in healthy older and younger adults. *Pain* 101:155-165, 2003.
56. Boyce JR, **Ness T,** Castroman P, Gleysteen J. A preliminary study of the optimal anesthesia positioning for the morbidly obese patient. *Obesity Surg* 13:4-9, 2003.
57. **Ness TJ.** Do we need another animal pain model? *Anesthesiology* 98(2):291, 2003.

58. Mogil JS, Wilson SG, Chesler EJ, Rankin AL, Nemmani KVS, Lariviere WR, Groce MK, Wallace MR, Kaplan L, Staud R, **Ness TJ**, Glover TL, Stankova M, Mayorov A, Hruby VJ, Grisel JE, Fillingim RB. The melanocortin-1 receptor gene mediates female-specific mechanisms of analgesia in mice and humans. *Proc Natl Acad Sci USA* 100:4867-4872, 2003.
59. Putzke JD, Richards JS, **Ness TJ**, Kezar L. Test re-test reliability of the Donovan spinal cord injury pain classification scheme. *Spinal Cord* 41(4):239-241, 2003.
60. Dinoff BL, Richards JS, **Ness TJ**. Use of Topiramate for spinal cord injury-related pain. *J Spinal Cord Med.* 26:401-403, 2003.
61. Dinoff BL, Meade-Pruitt SM, **Ness TJ**, Richards JS. Traumatic spinal cord injury-related pain. *Southern Pain Soc. Newsletter* (2003).
62. Putzke JD, Richards JS, **Ness TJ**, Kezar L. Inter-rater reliability of the IASP and Tunks spinal cord injury pain classification scheme. *MJ Phys Med Rehab* 82: 437-40, 2003.
63. Fillingim RB, **Ness TJ**, Glover TL, Campbell CM, Price DD, Staud R. Experimental pain models reveal no sex differences in pentazocine analgesia. *Anesthesiology* 100: 1263-70, 2004.
64. Boyce JR, Waite PD, Louis PJ, **Ness TJ**. Transnasal jet ventilation is a useful adjunct to teach fiberoptic intubation: a preliminary report. *Can J Anaesth.* 50(10): 1056-60, 2003.
65. Edwards, R.R., **Ness TJ**, Weigent, DA, Fillingim RB. Individual differences in diffuse noxious inhibitory controls (DNIC): association with clinical variables. *Pain* 106(3): 427-37, 2003.
66. **Ness, TJ**, Elhefni H. Reliable Visceromotor Responses are Evoked by Noxious Urinary Bladder Distention In Mice. *J Urol* 171: 1704-8, 2004.
67. **Ness, TJ**, One thing leads to another. *Anesthesiology* 100:472-3, 2004.
68. Edwards RR, **Ness TJ**, Fillingim RB. Endogenous opioids, blood pressure, and diffuse noxious inhibitory controls: a preliminary study. *Percept Mot Skills* Oct; 99(2), 679-87, 2004.
69. **Ness TJ**, Powell-Boone T, Cannon R et al. Psychophysical evidence of hypersensitivity in subjects with interstitial cystitis. *J Urol* 173: 1983-1987, 2005.
70. Powell-Boone, T, **Ness TJ**, et al. Menstrual Cycle Affects Bladder Pain Sensation in Subjects with Interstitial Cystitis. *J Urol* 174: 1832-1836, 2005
71. Fillingim RB, **Ness TJ**, Glover TL, Campbell CM, Hastie BA, Price DD, Staud R. Morphine Responses and Experimental Pain: Sex Differences in Side Effects and Cardiovascular Responses but not Analgesia. *J Pain*, Vol 6, No 2 : 116-124, 2005

72. Fillingim RB, Kaplan L, Staud R, **Ness TJ**, Glover TL, Campbell CM, Mogil JS, Wallace MR. The A118G Single Nucleotide Polymorphism of the  $\mu$ -Opioid Receptor Gene (OPRM1) Is Associated with Pressure Pain Sensitivity in Humans. *J Pain*, Vol 6, No 3 156-167, 2005
73. **Ness, TJ**. Pelvic pain in women and men: recent findings. *Curr. Opin Anaesthesiol* 18: 555-562, 2005.
74. Fillingim RB, Hastie BA, **Ness TJ**, Glover TL, Campbell CM, Staud R. Sex-related psychological predictors of baseline pain perception and analgesic responses to pentazocine. *Biol Psychol.* Apr;69(1): 97-112, 2005.
75. Robbins MT, Uzzell TW, Aly S and **Ness TJ**. Visceral nociceptive input to the area of the medullary lateral reticular nucleus ascends in the lateral spinal cord. *Neurosci Lett.* 381: 329-333, 2005.
76. Richard JS, Kogos SC Jr, **Ness TJ** and Oleson CV. Effects of smoking on neuropathic pain in two people with spinal cord injury. *J Spinal Cord Med.* 28: 330-332, 2005.
77. Kogos SC Jr, Richards JS, Banos JH, **Ness TJ**, Charlifue SW, Whiteneck GC and Lammertse DP. Visceral pain and life quality in persons with spinal cord injury: a brief report. *J Spinal Cord Med.* 28: 333-337, 2005.
78. Doleys DM, Brown JL, **Ness T**. Multidimensional outcomes analysis of intrathecal, oral opioid and behavioral-functional restoration therapy for failed back surgery syndrome: a retrospective study with 4 years' follow-up. *Neuromodulation.* 9: 270-283, 2006.
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80. Randich A, Uzzell TW, Cannon RS and **Ness TJ**. Inflammation and enhanced nociceptive responses to bladder distension produced by intravesical zymosan in the rat. *BMC Urol.* 6:2, 2006.
81. **Ness TJ**, and Randich A. Which spinal cutaneous nociceptive neurons are inhibited by intravenous lidocaine? *Reg Anesth Pain Med.* 31: 248-253, 2006.
82. Randich A, Uzzell TW, DeBerry JJ and **Ness TJ**. Neonatal urinary bladder inflammation produces adult bladder hypersensitivity. *J Pain* 7: 469-79, 2006.
83. Deberry J, **Ness TJ**. Inflammation-induced enhancement of the visceromotor reflex to urinary bladder distention: Modulation by endogenous opioids and the effects of early-in-life experience with bladder inflammation. *J Pain* 8(12):914-23, 2007.
84. Cartner SC, Barlow SC, **Ness TJ**. Loss of cortical function in mice after decapitation, cervical dislocation, potassium chloride injection, and CO<sub>2</sub> inhalation. *Comp Med.* 57(6):570-3, 2007.

85. Robbins MT, DeBerry J, **Ness TJ**. Chronic psychological stress enhances nociceptive processing in the urinary bladder in high-anxiety rats. *Physiol Behav.* 91:544-50, 2007.
86. **Ness TJ**. The common in Boston. *J Urol.* 2008. Aug; 180:439-40 [editorial].
87. Randich A, Mebane H, Deberry JJ, **Ness TJ**. Rostral Ventral Medulla Modulation of the Visceromotor Reflex Evoked by Urinary Bladder Distension in Female Rats. *J Pain* 2008. 9: 920-926.
88. Robbins MT, **Ness TJ**. Footshock-induced urinary bladder hypersensitivity: role of spinal corticotrophin-releasing factor receptors. *J Pain.* 2008. 9: 991-998.
89. Black LV, Robbins MT, **Ness TJ**. Effects of Oxytocin and Prolactin on Stress-Induced Bladder Hypersensitivity in Female Rats. *J Pain.* 2009. 10:1065-72.
90. Wesselmann U, Baranowski AP, Borjesson M, Curran N, Czakanski PP, Giamberardino MA, **Ness TJ**, Robbins MT, Traub RJ.. Emerging therapies and novel approaches to visceral pain. *Drug Discovery Today: Therapeutic Strategies*, 2009. 6:89-95. PMID 21243067
91. Richards JS, PhD, Kezar LB, MD, **Ness TJ**. Ethics in pain management of persons with spinal cord injury. *Topics in Spinal Cord Injury Research*, 2010.
92. **Ness TJ**, Castroman PJ, Randich A. Acute bladder inflammation differentially affects spinal visceral nociceptive neurons. *Neurosci Lett*, 2009. 467(2):150-4.
93. Randich A, Mebane H, **Ness TJ**. Ice water testing reveals hypersensitivity in adult rats that experienced neonatal bladder inflammation: Implications for painful bladder syndrome/interstitial cystitis. *J Urol.* 2009 Jul; 182:337-42.
94. Richardson EJ, **Ness TJ**, Doleys DM, Banos JH, Cianfrini L, Richards J. Depressive symptoms and pain evaluations among persons with chronic pain: Catastrophizing, but not pain acceptance shows significant effects. *Pain.* 2009 147: 147-152. PMID 19773126
95. Deberry J, Randich A., Shaffer A., Robbins M, and **Ness TJ**. Neonatal bladder inflammation produces functional changes and alters neuropeptide content in bladders of adult female rats. *J Pain* 2010 11(3):247-255. PMID: 19945355.
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### **Web-based Educational Materials:**

IASP Factsheet on Neurobiology of Visceral Pain: <http://www.iasp-pain.org/files/Content/ContentFolders/GlobalYearAgainstPain2/VisceralPainFactSheets/2-Neurobiology.pdf>

IASP Factsheet on Acute vs. Chronic Presentation of Visceral Pain: <http://www.iasp-pain.org/files/Content/ContentFolders/GlobalYearAgainstPain2/VisceralPainFactSheets/3-AcuteVsChronic.pdf>

IASP Factsheet on Pancreatitis: <http://www.iasp-pain.org/files/Content/ContentFolders/GlobalYearAgainstPain2/VisceralPainFactSheets/5-Pancreatitis.pdf>

IASP Factsheet on Interstitial Cystitis/Bladder Pain Syndrome: <http://www.iasp-pain.org/files/Content/ContentFolders/GlobalYearAgainstPain2/VisceralPainFactSheets/6-InterstitialCystitis.pdf>

IASP Factsheet on Male CPPS: <http://www.iasp-pain.org/files/Content/ContentFolders/GlobalYearAgainstPain2/VisceralPainFactSheets/7-MaleCPPS.pdf>

**Ness TJ** and Robbins MT. 186 CNS and PNS Physiology: Pain Mechanisms and Pathways: Nociceptors and Nociceptive Afferent Neurons, Wind-Up Phenomenon, Dorsal Horn Transmission and Modulation. **STARTPrep** – Anesthesia Keyword Tutorial, 2014.

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