

Raymond A. Dionne
East Carolina University
6S19 Brody Medical Sciences Building
600 Moye Boulevard
Greenville, NC 27834-4354
252-744-2108 (office)
252-744-3203 (fax)
dionner@ecu.edu

CURRENT POSITON

Research Professor
Department of Pharmacology, Brody School of Medicine
Department of Foundational Sciences, School of Dental Medicine
East Carolina University
Greenville, North Carolina
August 2013 - present

EDUCATION

PhD Pharmacology, 1980
Medical College of Virginia
Richmond, VA

M.S Pharmacology, 1975
Georgetown University
Washington, DC

D.D.S, 1972
Georgetown University School of Dentistry
Washington, DC

B.A., Zoology, 1968
University of Connecticut
Storrs, CT

POST-DOCTORAL TRAINING

Postdoctoral Fellow, Departments of Pharmacology and Oral Surgery 1975-1978
Medical College of Virginia
Richmond, VA

OTHER ACADEMIC AND PREVIOUS POSITIONS

Tenured Investigator, Intramural Research Program
National Institutes of Health
January 1985 – May 2013

Scientific Director, National Institute of Nursing Research, NIH
October 2005 – July 2012

Chief, Pain and Neurosensory Mechanisms Branch
National Institute of Dental and Craniofacial Research, NIH
January 2002 – September 2005

Clinical Director, National Institute of Dental and Craniofacial Research, NIH
January 2000 – September 2003

Acting Chief, Pain and Neurosensory Mechanisms Branch, NIDCR, NIH
January 1995 – December 2001

Chief, Clinical Pharmacology Unit
National Institute of Dental Research, NIH
1989 – October 2005

Acting Clinical Director, National Institute of Dental and Craniofacial Research, NIH
May 1999 – December 1999

Staff Scientist, Neurobiology and Anesthesiology Branch
National Institute of Dental Research, NIH
1985 – 1988

Staff Fellow, Neurobiology and Anesthesiology Branch
National Institute of Dental Research, NIH
1978-1984

Private Dental Practice, 1973 – 2000
Washington, DC

CURRENT AND PAST BOARDS AND OTHER POSITIONS

Editor, Anesthesia Progress
1985-1990

Acting Editor, Anesthesia Progress
1983-1984

Pain Series Editor, Compendium of Continuing Education in Dentistry
1984-86

Reviewer:
Journal of the American Dental Association
Journal of Dental Research

Journal of Orofacial Pain
Journal of Pharmacology and Experimental Therapeutics
Regional Anesthesia and Pain Medicine
Pain

Co-Editor, *Anesthesia and Sedation in the Dental Office*
Elsevier, New York, 1986

Co-Editor, *Management of Pain and Anxiety in Dental Practice*
Elsevier, New York, 1991

Co-Editor, *Temporomandibular Disorders (TMDs) and Related Pain Conditions*
IASP Press, Seattle, 1995

Co-Editor, *Proceedings of the Temporomandibular Disorders Technology Assessment Conference*. Oral Surg, Oral Med, Oral Pathol, 1997; 83:49-183

Co-Editor, Scientific Frontiers in Clinical Dentistry
Compendium, 1997; 18:212-281

Co-Editor, *Management of Pain and Anxiety in the Dental Office*
W.B. Saunders, St. Louis, 2002

Co-Editor, *Orofacial Pain, A Guide to Medications and Management*
Wiley-Blackwell, West Sussex 2012

Clinical Instructor, School of Dentistry, Georgetown University
1973-1975

Clinical Assistant Professor, Department of Oral Surgery, Medical College of Virginia
1978 - 1985

Expert, Division of Neuropharmacological Drug Products, Center for Drugs and Biologics
Food and Drug Administration
1982 - 1988

Clinical Associate Professor, Department of Oral Surgery, Georgetown University
1986 - 1990

Consultant, Endodontics Department, 1988 – 2001
Consultant, Periodontics Department, 1995 - 2001
Naval Dental School, Bethesda, Maryland

Clinical Instructor, Department of Oral Health Care Delivery
University of Maryland Dental School, Baltimore, MD

July 2000 – June 2001

CERTIFICATIONS

Editing and Publications 1989

Georgetown University

Washington, DC

AWARDS AND HONORS

NIH Director's Award, 1998, 2008, 2010

Distinguished Service Award, American Dental Society of Anesthesiology, 1991

Heidbrink Award, American Dental Society of Anesthesiology, 2001

Distinguished Scientist Award, International Association for Dental Research, 2001

Monheim Distinguished Service Award, American Society of Dentist Anesthesiologists, 2005

Certificate of Appreciation, Center for Neuroscience and Regenerative Medicine, 2011

Alumni Star Award, Virginia Commonwealth University, 2013

PUBLICATIONS

Manuscripts

1. Cooper S, Desjardins P, Turk DC, Dworkin RH, Katz NP, Kehlet H, Ballantyne JC, Blum DE, Burke LB, Carragee E, Costello A, Cowan P, Croll S, Dionne RA et al. Research design considerations for single-dose analgesic clinical trials in acute pain: IMMPACT recommendations. *Pain* 2015, submitted for publication.
2. Dionne RA, Gordon SM, Cooper SA. Use of ibuprofen in dentistry. In, *Ibuprofen: Discovery, Development and Therapeutics*. KD Rainsford (Ed.), John Wiley & Sons, London, 2015, in press
3. Gewandter JS, Dworkin RH, Turk DC, McDermott MP, Peirce-Sander S, Baron R, Gastonguay M, Gilron I, Katz NP, Mehta C, Raja SN, Senn S, Taylor C, Costello A, Cowan P, Desjardins P, Dimitrova R, Dionne RA et al. Research design from proof-of-concept chronic pain clinical trials: IMMPACT recommendations. *Pain*, in press.
4. Cairns BE, Gordon SM, Dionne RA. Pharmacological Advances in Orofacial Pain Management. *In, Orofacial Pain: Recent Advances in Assessment, Management and Understanding of Mechanisms*. Sessle BJ (Ed.): IASP Press, 2015
5. Kim H, Gordon SM, Dionne RA. Genome-wide approaches (GWA) in oral and craniofacial diseases research. *Oral Diseases* 2013; 19:111-120.
6. Saligan LN, Hsiao CP, Wang D, Wang XM, St John L, Kaushai A, Citrin D, Barb JJ, Munson PJ, Dionne RA. Upregulation of α -synuclein during localized radiation therapy

signals the association of cancer-related fatigue with the activation of inflammatory and neuroprotective pathways. *Brain Behav Immun* 2013; 27:63-70.

7. Wang D, Kim H, Wang XM, Dionne RA. Genomic methods for clinical and translational pain research. *Methods Mol Biol* 2012; 851:9-46.
8. Dionne RA, Clark GT. Nonopioid analgesics, salicylates, NSAIDs and corticosteroids for chronic pain. In, *Orofacial Pain, A Guide to Medications and Management*, Clark GT, Dionne RA (Eds). Wiley-Blackwell, West Sussex, 2012, pp. 47-65.
9. Kumar S, Clark GT, Dionne RA. Antibacterial agents as analgesics in chronic pain. In, *Orofacial Pain, A Guide to Medications and Management*, Clark GT, Dionne RA (Eds). Wiley-Blackwell, West Sussex, 2012, pp. 145-150.
10. Hamza M, Wang XM, Wu T, Brahim JS, Rowan JS, Dionne RA. Nitric oxide is negatively correlated to pain during the early phase of inflammation in the oral surgery model. *Molecular Pain*, 2010; 13:6-12.
11. Gordon SM, Mischenko AV, Dionne RA. Long-acting local anesthetics and peri-operative pain management. *Dent Clinics NA*, 2010; 54:611-620.
12. Kim H, Iadarola MJ, Dionne RA. TRP Polymorphisms. In *TRP Channels in Health and Disease: Implications for Diagnosis and Therapy*, Arpad Szallasi, Nova Books, Hauppauge, NY, 2010; 39-50.
13. Hamza M, Wang XM, Adam A, Brahim JS, Rowan JS, Carmona GN, Dionne RA. Kinin B1 receptors contributes to acute pain following minor surgery in humans. *Molecular Pain* 2010; 13:6-12.
14. Dionne RA, Gordon SM, Hamza M. Clinical pharmacology of non-steroidal anti-inflammatory drug (NSAID) analgesics. In, *Pain 2010- An Updated Review*. IASP Press, Pain. (Ed) J Mogil, 2010.
15. Hamza M, Dionne RA. 2020 Foresight: Envisioning therapeutic innovations for pain. *Drug Discovery Today* 2009; 6:113-119.
16. Kim H, Dionne RA. Individual pain medicine. *Drug Discovery Today* 2009; 6:83-87.
17. Kim H, Dionne RA. Introduction to antinociceptive drugs. In: *Pharmacology and Therapeutics for Dentistry*, 6th ed. JA Yagiela, FJ Dowd, BJ Johnson, AJ Mariotti (Eds) Elsevier, St. Louis 2010, 299-306.
18. Wang XM, Hamza M, Wu TX, Dionne RA. Upregulation of IL-6, IL-8 and CCL2 gene expression after acute inflammation: Correlation to clinical pain. *Pain* 2009; 142:275-83.
19. Hamza M, Dionne RA. Mechanisms of non-opioid analgesics beyond cyclooxygenase enzyme inhibition. *Curr Mol Pharmacol*. 2009; 2:1-14.

20. Kim H, Clark D, Dionne RA. Genetic contribution to clinical pain and analgesia: Avoiding pitfalls in genetic research. *J Pain* 2009; 10: 663-93.
21. Kim H, Ramsay E, Lee H, Wahl, S, Dionne R. Genome-wide association study of acute post-surgical pain in humans. *Pharmacogenomics* 2009; 10:171-9.
22. Dionne RA, John TN, Zakrzewska JM. Overall management of facial pain. In, Zakrzewska JM (Ed.), *Orofacial Pain*, Oxford University Press, 2009; 53-68.
23. Dorsey SG, Leitch CC, Renn CL, Lessans S, Smith BA, Wang XM, Dionne RA. Genome-wide screen identifies drug-induced regulation of the gene giant axonal neuropathy (Gan) in a mouse model of antiretroviral-induced painful peripheral neuropathy. *Biol Res Nurs.* 2009; 11:7-16.
24. Gordon SM, Chuang BP, Wang XM, Hamza MA, Rowan JS, Brahim JS, Dionne RA. The differential effects of bupivacaine and lidocaine on prostaglandin E₂ release, cyclooxygenase gene expression and pain in a clinical pain model. *Anesth Analg* 2008; 106:321-7.
25. Dworkin RH, Turk DC, Wyrwich KW, Beaton D, Cleeland CS, Farrar JT, Haythornthwaite JA, Jensen MP, Kerns RD, Ader DN, Brandenburg N, Burke LB, Cella D, Chandler J, Cowan P, Dimitrova R, Dionne RA et al. Interpreting the clinical importance of treatment outcomes in chronic pain clinical trials: IMMPACT recommendations. *J Pain* 2008; 9:105-21.
26. Witter J, Dionne RA: Clinical Analgesic Drug Trials: Targets, Research Strategies and Individualizing Outcome Measures. In, *Evidence, Outcomes and Quality of Life in Pain Treatment*, Carr D and Wittink H (eds). Elsevier, 2008, 9:137-148.
27. Wang XM, Hamza M, Gordon SM, Wahl SM, Dionne RA. COX inhibitors downregulate PDE4D expression in a clinical model of inflammatory pain. *Clinical Pharmacol Therap* 2008; 84:39-42.
28. Gordon SM, Dionne RA. Management of Inflammatory Pain, in *Orofacial Pain and Related Conditions*, (eds) Sessle B, Lavigne G, Dubner R. Quintessence, pp 171-178.
29. Woodcock J, Witter J, Dionne RA. Stimulating the development of mechanism-based individualized pain therapies. *Nat Rev Drug Discov* 2007; 6:703-10.
30. Lee YS, Kim H, Brahim JS, Rowan J, Lee G, Dionne RA. Acetaminophen selectively suppresses peripheral prostaglandin E₂ release and increases COX-2 gene expression in a clinical model of acute inflammation. *Pain* 2007; 129:279-86.
31. Kim, H, Dionne RA. Comment on Diatchenko et al. Catechol-O-methyltransferase gene polymorphisms are associated with multiple pain-evoking stimuli. *Pain* 2007; 129:355-6.
32. Khan AA, Iadarola M, Yang HY, Dionne RA. Expression of COX-1 and COX-2 in a clinical model of acute inflammation. *J Pain* 2007; 8:349-54.

33. Kim H, Dionne RA. Lack of influence of GTP cyclohydrolase gene (GCH1) variations on pain sensitivity in humans. *Mol Pain* 2007; 3:6
34. Gordon SM, Shimizu H, Shlash D, Dionne RA. Evidence of safety for individualized dosing of enteral sedation. *Gen Dentistry* 2007; 55:410-415.
35. Gordon SM, Dionne RA. Development and interim results of a clinical research training fellowship. *J Dent Educ* 2007; 71:1040-1047.
36. Wang XM, Wu T-X, Hamza M, Ramsay ES, Wahl SM, Dionne RA. Rofecoxib modulates multiple gene expression pathways in a clinical model of acute inflammatory pain. *Pain* 2007; 128:136-147.
37. Turk DC, Dworkin RH, Burke LB, Gershon R, Rothman M, Scott J, Allen RR, Atkinson JH, Chandler J, Cleeland C, Cowan P, Dimitrova R, Dionne RA et al. Developing patient-reported outcome measures for pain clinical trials: IMMPACT recommendations. *Pain* 2006; 125:208-215.
38. Kim H, Lee H, Rowan J, Brahim J, Dionne RA. Genetic polymorphisms in monoamine neurotransmitter systems show only weak association with acute post-surgical pain in humans. *Molec Pain* 2006; 2:24.
39. Kim H, Mittal D, Iadarola MJ, Dionne RA. Genetic predictors for acute experimental cold and heat pain sensitivity in humans. *J Med Gen* 2006; 46:e40.
40. Dionne RA, Kim H, Gordon SM: Acute and chronic dental and orofacial pain. In, McMahan S, Koltzenburg M (eds), *Wall and Melzack's Textbook of Pain*. Elsevier, 2006, pp 819-835.
41. Lee Y, Kim H, Wu T, Wang X, Dionne RA. Genetically mediated interindividual variation in analgesic responses to cyclooxygenase inhibitory drugs. *Clin Pharmacol Therap* 2006; 79:407-418.
42. Dionne RA, Yagiela J, Cote C, Donaldson M, Edwards, M, Greenblatt D, Haas D, Malviya S, Milgrom P, Moore P, Shampaine G, Silverman M, Williams R, Wilson S. Balancing efficacy and safety for the use of oral sedation in dental outpatients. *JADA* 2006; 137:502-513.
43. Wang XM, Wu T-X, Lee Y-S, Dionne RA. Rofecoxib regulates the expression of genes related to matrix metalloproteinase pathway in humans: implication for the adverse effects of COX-2 inhibitors. *Clin Pharmacol Therap* 2006; 79:303-315.
44. Dionne RA, Evidence-based pharmacologic treatments for temporomandibular disorders. In, Laskin DM, Greene CS (eds): *Temporomandibular disorders: An evidence based approach to diagnosis and treatment*. Quintessence Books, 2006, pp 347-357.
45. Gordon S, Dionne RA. The integration of clinical research into dental therapeutics: Making treatment decisions. *JADA* 2005; 136:1701-1708.

46. Kim HS, Dionne RA: Genetic influences on pain sensitivity and analgesic response. *Pain Clinical Updates* 2005; 13:1-4.
47. Lee YS, Rodriguez C, Dionne RA. Role of COX in acute pain and the use of selective COX-2 inhibitors for the relief of acute pain. *Current Pharmaceutical Design* 2005; 11:1737-55.
48. Dionne RA, Bartoshuk L, Mogil J, Witter J. Individual responder analyses for pain. Does one pain scale fit all? *Trends in Pharmacol Sci* 26:125-120, 2005.
49. Warburton G, Nares S, Angelov N, Brahim J, Wahl SM, Dionne RA. Transcriptional events in a clinical model of oral mucosal tissue injury and repair. *Wound Repair Regen* 2005; 13:19-26.
50. Dworkin RH, Turk DC, Farrar JT, Haythornwaite J, Jensen MP, Katz NP, Kerns RD, Stucki G, Allen RR, Bellamy N, Carr DB, Chandler J, Cowan P, Dionne RA et al. Core outcome measures for chronic pain clinical trials: IMMPACT recommendations. *Pain* 2005; 113:9-19.
51. Phero JC, Becker DE, Dionne RA. Contemporary trends in acute pain management. *Curr Opinion Otolaryngology* 2004; 12:209-216.
52. Kim H, Neubert JK, Rowan J, Brahim J, Iadarola MJ, Dionne RA. Comparison of experimental and acute clinical pain responses in humans as pain phenotypes. *J Pain* 2004; 5:377-384.
53. Gordon SM, Dionne RA. The integration of clinical research into dental therapeutics: The role of astute clinician. *J. Amer Dent Assoc* 2004; 135:1537-1542.
54. Witter J, Dionne RA. What can chronic arthritis pain teach about developing new analgesic drugs? *Arthritis Research & Therapy* 2004; 6:279-281.
55. Kim H, Dionne RA. Introduction to Antinociceptive Drugs. In, Yagiela J, Dowd FJ, Neidle EA, *Pharmacology and Therapeutics for Dentistry*, 5th Ed, Elsevier, Philadelphia, 2004.
56. Ta LE, Dionne RA. Treatment of painful temporomandibular joints with a cyclooxygenase-2 inhibitor: a randomized placebo-controlled comparison of celecoxib to naproxen. *Pain* 2004; 111:13-21.
57. Dionne RA, Haynes D, Brahim JS, Rowan JS, Guivarch P. Analgesic effect of sustained-release flurbiprofen administered at the site of tissue injury in the oral surgery model. *J Clin Pharmacol* 2004; 44:1418-1424.
58. Kim H, Neubert JK, San Miguel A, Krishnaraju K, Iadarola MJ, Goldman D, Dionne RA. Genetic influence on variability in human pain sensitivity associated with gender, ethnicity and psychological temperament. *Pain* 2004; 109:488-496.
59. Witter J, Simon L, Dionne RA. Are means meaningless? - The application of individual

responder analysis to analgesic drug development. *APS Bulletin* 2003; 13:1-8.

60. Turk DC, Dworkin RH, Allen RR, Bellany N, Brandenburg N, Carr DB, Cleeland C, Dionne RA, et al. Outcome domains in chronic pain clinical trial: IMMPACT consensus recommendation. *Pain* 2003; 106:337-345.
61. Wahl SM, McCartney-Francis N, Chan J, Dionne R, Ta L, Orenstein JM. NO in experimental joint inflammation: benefit or detriment. *Cells, Tissues, Organs* 2003; 174: 26-33.
62. Phero JC, Dionne RA. Pharmacological management of head and neck pain. *Otolaryngol Clin North Am* 2003; 36:1171-85.
63. Dionne RA, Gordon SM, Rowan J, Kent A, Brahim JS. Dexamethasone suppresses peripheral prostanoid levels without analgesia in a clinical model of acute inflammation. *J Oral Maxillofac Surg.* 2003; 61:997-1003.
64. Dionne RA, Witter J. Improving analgesic drug development: What's Needed? *APS Bulletin* 2003; 13:4-5.
65. Gordon SM, Heft MW, Dionne RA, Jeffcoat MK, Alfano MC, Valakovic RW, Lipton JA. Capacity for Training in Clinical Research: Status and Opportunities. *J Dent Edu* 2003; 67:623-630.
66. Dionne RA. Tramadol/Paracetamol, a Viewpoint. *Drugs* 2003; 63:1087-88.
67. Dionne RA, Witter J. NIH-FDA analgesic drug development workshop. Translating scientific advances into improved pain relief. *Clin J Pain* 2003; 19:139-147.
68. Dionne RA. Relative efficacy of selective COX-2 inhibitors compared with over-the-counter ibuprofen. *Int. J Clin Practice Suppl* 2003; 135:18-22.
69. Kim H, Neubert JK, Iadarola MJ, Miguel AS, Goldman D, Dionne RA: Genetic influence on pain sensitivity in humans: Evidence of heritability related to single nucleotide polymorphisms in opioid receptor genes. In: *Proceedings of the World Congress on Pain.* IASP Press: Seattle, WA. 2003; 513-520.
70. Jaber L, Swaim WD, Dionne RA: Immunohistochemical localization of μ -opioid receptors in human dental pulp. 2003; *J Endodont* 29:108-110.
71. Khan AA, Dionne RA: COX-2 inhibitors for endodontic pain. *Endodont Topics* 2003; 3:71-80.
72. Ta LE, Phero JC, Pillemer SR, Hale-Donze H, McCartney-Francis N, Kingman A, Max MB, Gordon SM, Wahl SM, Dionne RA: Clinical evaluation of patients with TMJ implants. *J Oral Maxillofac Surg* 2002; 60:1289-99.

73. Gordon SM, Brahim J, Dubner R, McCullagh L, Sang C, Dionne RA: Attenuation of pain in a randomized trial by suppression of peripheral nociceptive activity in the immediate postoperative period. *Anesth Analg* 2002; 95:1351-57.
74. Gordon SM, Brahim JS, Rowan J, Kent AA, Dionne RA: Peripheral prostanoid levels and NSAID analgesia: replicate clinical trials in a tissue injury model. *Clin Pharmacol Therap* 2002; 72:175-83.
75. Khan AA, Brahim JS, Rowan JS, Dionne RA: In vivo selectivity of a selective COX-2 inhibitor in the oral surgery model. *Clin Pharmacol Therap* 2002; 72:44-49.
76. Ta LE, Neubert JK, Dionne RA. Pharmacologic treatments for temporomandibular disorders and other orofacial pain. In, Dionne RA, Phero JC, Becker DE (eds.). *Management of Pain and Anxiety in the Dental Office*. W.B. Saunders Co., Philadelphia, PA, 2002, pp. 354-367.
77. Dionne RA, Trapp LD. Oral and rectal sedation. In, Dionne RA, Phero JC, Becker DE (eds.). *Management of Pain and Anxiety in the Dental Office*. W.B. Saunders Co., Philadelphia, PA, 2002, pp. 225-234.
78. Dionne RA, Berthold CB, Cooper SA. Therapeutic use of non-opioid analgesics. In, Dionne RA, Phero JC, Becker DE (eds.). *Management of Pain and Anxiety in the Dental Office*. W.B. Saunders Co., Philadelphia, PA, 2002, pp. 97-113.
79. Dionne RA, Kaneko Y. Overcoming pain and anxiety in dentistry. In, Dionne RA, Phero JC, Becker DE (eds.). *Management of Pain and Anxiety in the Dental Office*. W.B. Saunders Co., Philadelphia, PA, 2002, pp. 2-13.
80. Khan AA, Dionne RA: The COX-2 inhibitors: New analgesic and anti-inflammatory drugs. *Dent Clin North America* 2002; 46:679-90.
81. Dionne RA, Khan AA, Gordon SM: Analgesia and COX-2 inhibition. *Clin Exp Rheumatol* 2001; 19:S63-70.
82. Dionne RA: Pharmacologic advances in orofacial pain: from molecules to medicine. *J Dent Educ* 2001; 65:1393-1403.
83. Dionne RA, Yagiela JA, Moore PA, Gonty A, Zuniga J, Beirne OR: Comparative efficacy and safety of four intravenously administered sedative drug regimens for dental outpatients. *JADA* 2001; 132:740-751.
84. Dionne RA, Lepinski AM, Jaber L, Gordon SM, Brahim JS, Hargreaves KM: Analgesic effects of peripherally administered opioids in clinical models of acute and chronic inflammation. *Clin Pharmacology Therap* 2001; 70:66-73.
85. Dionne RA: Management of Inflammatory Pain. In, *Orofacial Pain: From Basic Science to Clinical Management*. G. Lavigne, J. Lund, B. Sessle, R. Dubner (eds.), Quintessence Publishing Co., 2001, pp. 221-233.

86. Dionne RA, Berthold CB: Critical review of the use of NSAIDs in dentistry. *Crit Rev Oral Biol Med* 2001; 12:315-330.
87. Dionne RA: Antidepressants for chronic orofacial pain. *Compendium* 2000; 21:572-577.
88. Dionne RA: Additive analgesia without opioid side effects. *Compendium* 2000; 21:572-576.
89. Gilron I, Max MB, Lee G, Booher SL, Dionne RA: Effects of the AMPA/kainate antagonist LY293558 on spontaneous and evoked postoperative pain. *Clin Pharmacol Therap* 2000; 68:320-327.
90. Dionne RA: Pharmacologic treatment of acute and chronic orofacial pain. *Oral Maxillofac Surg Clin* 2000; 12:309-320.
91. Dionne RA: Preemptive vs preventive analgesia: Which approach improves clinical outcomes? *Compendium* 2000; 21:48-56.
92. Dionne RA: Pharmacologic management of acute pain. In, *Perspectives on the 1998 World Workshop on Oral Medicine*. H Millard and D Mason (eds.), University of Michigan Press, 2000, pp 239-257.
93. Ta LE, Dionne RA, Friction JR, Hodges JS, Kajander KC: SYM-2081, a kainate receptor antagonist, reduces allodynia in a freeze injury model of neuropathic pain. *Brain Res* 2000; 858:106-120.
94. Gordon SM, Dubner R, Dionne RA: Antihyperalgesic effect of the N-methyl-D-aspartate antagonist dextromethorphan in the oral surgery model. *J Clin Pharmacol* 1999; 39:139-146.
95. Dionne RA, Gordon SM, Tahara M, Rowan J, Troullos E: Analgesic efficacy and pharmacokinetics of ketoprofen administered into surgical extraction sites. *J Clin Pharmacol* 1999; 39:131-138.
96. Dionne RA, Cooper SA: Use of ibuprofen in dentistry. In, Rainsford KD (Ed.), *Ibuprofen, A Critical Bibliographic Review*. Taylor & Francis, London, 1999, pp 407-430.
97. Dionne RA: Oral midazolam syrup: A safer alternative for pediatric sedation. *Compendium* 1999; 20:221-230.
98. Dionne RA: Clinical analgesic trials of NK1 antagonists. *Current Opinion in Central and Peripheral Nervous System Drugs* 1999; 1:84-87.
99. Dionne RA: Additive analgesic effects of oxycodone and ibuprofen in the oral surgery model. *J Oral Maxillofac Surg* 1999; 57: 673-678.
100. Dionne RA: COX-2 inhibitors: Better than ibuprofen for dental pain? *Compendium* 1999; 20:518-524.

101. Dionne RA: Central nervous system plasticity and persistent pain (critical commentary). *J Orofac Pain* 1999; 13:164-165.
102. Dionne RA: Evaluation of analgesic mechanisms and NSAIDs in the oral surgery model. In, Rainsford KD & Powanda MD (Eds.), *Safety and Efficacy of Non-Prescription (OTC) Analgesics and NSAIDs*. Kluwer Academic Publishers, London, 1998, pp 105-117.
103. Dionne RA: Oral Sedation. *Compendium* 1998; 19:868-877.
104. Dionne RA, Max MB, Gordon SM, Parada S, Sang C, Gracely R, Sethna N, MacLean DB: The substance P receptor antagonist CP-99,994 reduces acute postoperative pain. *Clin Pharmacol Therap* 1998; 64:562-568.
105. Dionne RA: Lidocaine and Cancer: Risk or Rumor? *Compendium* 1998; 19:1118-1122.
106. Gordon SM, Dionne RA, Snyder J: Dental fear and anxiety as a barrier to accessing oral health care among patients with special health care needs. *Spec Care Dent* 1998; 18:88-92.
107. Dionne RA, Gordon SM, McCullagh LM, Phero JC: Assessment of clinical needs for anesthesia and sedation in the general population. *J Am Dent Assoc* 1998; 129:167-173.
108. DeNucci D, Sobiski C, Dionne RA: Triazolam improves sleep but fails to alter pain in temporomandibular disorder patients. *J Orofac Pain* 1998; 12:116-123.
109. Dionne RA: To tame the pain? *Compendium* 1998; 19:426-431.
110. Dionne RA, McCullough L: Analgesic efficacy of the S(+) isomer of ibuprofen in comparison to racemic ibuprofen. *Clin Pharmacol Therap* 1998; 63:694-701.
111. Ehrich DG, Lundgren JP, Dionne RA, Nicoll BK, Hutter JW: Comparison of oral triazolam, diazepam, and placebo as outpatient premedication for endodontic patients. *J Endodontics* 1997; 23:181-184.
112. Hargreaves KM, Swift JQ, Gordon SM, Dionne RA: Orofacial inflammation and pain. In, *Anesthesia: Biologic Frontiers*, Biebuyck, Lynch, Maxe, Saidman, Yaksh, Zapol (Eds.), Raven Press, New York, 1997.
113. Troullos E, Hargreaves KM, Dionne RA: Ibuprofen elevates immunoreactive beta-endorphin levels in humans during surgical stress. *Clin Pharmacol Therap* 1997; 62:74-81.
114. Singer E, Dionne RA: A controlled evaluation of ibuprofen and diazepam for chronic orofacial muscle pain. *J Orofacial Pain* 1997; 11:139-146.
115. Gordon SM, Dionne RA, Brahim J, Jabir F, Dubner R: Blockade of peripheral neuronal barrage reduces postoperative pain. *Pain* 1997; 70:209-215.
116. Dionne RA: Pharmacologic treatments for temporomandibular disorders. In, Lipton JA and Dionne RA (eds), *Proceedings of the Temporomandibular Disorders Technology Assessment*

- Conference. *Oral Surg, Oral Med, Oral Pathol, Endo* 1997; 83:134-142.
117. Berthold CB, Dionne RA, Corey SE: Comparison of sublingually and orally administered triazolam for premedication prior to oral surgery. *Oral Surg, Oral Med, Oral Pathol, Endo* 1997; 84:119-124.
118. Gordon SM, Dionne RA: Prevention of pain. *Compendium* 1997; 18:239-251.
119. Dionne RA, Berthold CW: Sedation techniques for the general dentist. In, Hardin JF (ed), *Clark's Clinical Dentistry*, Mosby-Year Book Inc., St. Louis, 1997, Chapter 25A, pp 1-9
120. DeNucci DJ, Dionne RA, Dubner R: A neurobiologic basis for drug therapy in TMD. *JADA* 1996; 127:581-593.
121. Dionne RA: Propofol: An alternative general anesthetic for outpatient oral surgery (discussion). *J Oral Maxillofac Surg* 1996; 54:948.
122. Dionne RA: Pharmacologic treatments for temporomandibular disorders. In, BJ Sessle, PS Bryant, RA Dionne (Eds.), *Temporomandibular Disorders and Related Pain Conditions*, IASP Press, Seattle, 1995, pp 363-374.
123. Jacobs MC Goldstein DS, Willemsen JJ, Smits P, Thien T, Dionne RA, Lenders JWM: Neurohumoral antecedents of vasopressor reactions. *Eur J Clin Invest* 1995; 25:754-761.
124. Ship JA, Grushka M, Lipton JA, Mott AE, Sessle BJ, Dionne RA: An update on burning mouth syndrome. *JADA* 1995; 126: 843-853.
125. Dionne RA: Comparison of propofol and methohexital for deep sedation (discussion). *J Oral Maxillofac Surg* 1994; 52:452-453.
126. Dionne RA, Snyder J, Hargreaves KM: Analgesic efficacy of flurbiprofen in comparison to acetaminophen, acetaminophen plus codeine, and placebo in the oral surgery model of acute pain. *J Oral Maxillofac Surg* 1994; 52:919-924.
127. Reid KI, Dionne RA, Sicard-Rosenbaum L, Lord D, Dubner R: Evaluation of iontophoretically applied dexamethasone for painful pathologic temporomandibular joints. *Oral Surg, Oral Med, Oral Pathol*, 1994; 77:605-609.
128. Dionne RA: Pharmacologic management of acute pain. In, Hardin JF (ed), *Clark's Clinical Dentistry*, J.B. Lippincott Co., Philadelphia, 1994, Chapter 26, pp 1-22.
129. Dionne RA, Gordon SM: Nonsteroidal anti-inflammatory drugs for acute pain control. *Dent Clin NA*, 1994; 38:645-667.
130. Kaufman E, Hargreaves KM, Dionne RA: Comparison of oral triazolam and nitrous oxide to placebo and intravenous diazepam for outpatient premedication. *Oral Surg, Oral Med, Oral Pathol*, 1993; 75:156-164.

131. Berthold CW, Dionne RA: Clinical evaluation of H1 receptor and H2 receptor antagonists for acute postoperative pain. *J Clin Pharmacol* 1993; 33:944-948.
132. Berthold CW, Schneider A, Dionne RA: Use of triazolam for dental patients. *J Amer Dent Assoc* 1993; 124:58-64.
133. Dionne RA: New approaches to preventing and treating postoperative pain. *JADA* 1992; 123:27-34.
134. Alling CC, Schwartz E, Campbell RL, Dionne RA et al: Algorithm for diagnostic assessment and surgical treatment of traumatic trigeminal neuropathies and neuralgias. *Oral Maxillofac Surg Clin NA* 1992; 4:555-562.
135. Dionne RA: Scientific basis for the use of anesthesia and sedation in dentistry. *Oral Maxillofac Surg Clin NA* 1992; 4:887-901.
136. Bloom JW, Chernik DA, Davidson AB, Dionne RA, et al: Reversal of central benzodiazepine effects by flumazenil after conscious sedation produced by intravenous diazepam. *Clinical Therapeutics* 1992; 14:895-909.
137. Hargreaves KM, Dionne RA: Evaluating endogenous mediators of pain and analgesia in clinical studies. In, *The Design of Analgesic Trials*; M. Max, R. Portenoy, E. Laska, Eds, New York, Raven Press, 1991, pp 579-598.
138. Kaufman E, Dionne RA: Local anesthesia adjuncts: Periodontal ligament injections, electrical anesthesia, topical anesthesia. In, *Management of Pain and Anxiety in Dental Practice*; RA Dionne and JC Phero, Eds, New York, Elsevier, 1991, pp 135-151.
139. Dionne RA: Analgesics. In *Management of Pain and Anxiety in Dental Practice*; RA Dionne and JC Phero, Eds, New York, Elsevier, 1991, pp 153-180
140. Hargreaves KM, Flores CM, Dionne RA, Mueller GP: The role of pituitary beta-endorphin in mediating CRF-induced antinociception. *Am J Physiol* 1990; 258:E235-242.
141. Troullos ES, Hargreaves KM, Butler DP, Dionne RA: Comparison of non-steroidal anti-inflammatory drugs, ibuprofen and flurbiprofen, to methylprednisolone and placebo for acute pain, swelling, and trismus. *J Oral Maxillofac Surg* 1990; 48:945-952.
142. Lavigne GJ, Hargreaves KM, Schmidt EA, Dionne RA: Proglumide potentiates morphine analgesia for acute post-surgical pain. *Clin Pharmacol Therap* 1989; 45: 666-673.
143. Dionne RA: Pharmacologic considerations in the training of dentists in anesthesia and sedation. *J Dent Educ* 1989; 53: 297-299.
144. Troullos E, Hargreaves KM, Goldstein D, Stull R, Dionne R: Epinephrine suppresses stress-induced increases in plasma immunoreactive beta-endorphin in humans. *J Clin Endocrinol Metab* 1989; 69:546-551.

145. Dionne RA, Gift HC: Survey of techniques and drugs used for parenteral sedation in dental practice. *Anesth Prog* 1988; 35:199-205.
146. Dionne RA and Troullos ES: Pharmacologic control of acute pain; In, *Clark's Clinical Dentistry*, Chapter 26, 1988; pp 1-10.
147. Hargreaves KM, Troullos ES, Dionne RA, Schmidt EA, Schafer SC, Joris JL: Bradykinin is increased during acute and chronic inflammation: *Clin Pharmacol Therap* 1988; 44:613-621.
148. Troullos ES, Goldstein DS, Hargreaves KM, and Dionne RA: Plasma epinephrine levels and cardiovascular response to high administered doses of epinephrine contained in local anesthesia. *Anesth Prog* 1987; 34:10-13.
149. Flath RK, Hicks ML, Dionne RA, and Pelleu GB: Pain suppression after pulpectomy with preoperative flurbiprofen. *J Endo* 1987; 13:339-347.
150. Hargreaves KM, Troullos ES, Dionne RA: Pharmacologic rationale for the treatment of acute pain. *Dent Clin North Amer* 1987; 31:1-20.
151. Hargreaves KM, Mueller GP, Dubner R, Goldstein DS, and Dionne RA: Corticotropin releasing factor (CRF) produces analgesia in humans and rats. *Brain Res* 1987; 422:154-157.
152. Hargreaves KM, Schmidt EA, Mueller GP, and Dionne RA: Dexamethasone alters plasma levels of beta-endorphin and postoperative pain. *Clin Pharmacol Therap* 1987; 42:601-607.
153. Sharav Y, Singer E, Schmidt E, Dionne RA, Dubner R: The analgesic effect of amitriptyline on chronic facial pain. *Pain* 1987; 31:199-209.
154. Dionne RA: Peripheral pain mechanisms: Suppression of post-surgical dental pain with antiinflammatory analgesics. *Anesth Prog* 1987; 34:118-121.
155. Troullos ES, Freeman RD and Dionne RA: The scientific basis for analgesic use in dentistry. *Anesth Prog* 1986; 33:123-138.
156. Freeman RD and Dionne RA: Pain control in dentistry: non-narcotic analgesics. *Compend Cont Educ Dent* 1986; 7:468-476.
157. Hargreaves KM, Dionne RA, Mueller GP, Goldstein DS and Dubner R: Naloxone, fentanyl and diazepam modify beta-endorphin levels during surgery. *Clin Pharmacol Therap* 1986; 40:165-171.
158. Troullos ES and Dionne RA: Pain control in dentistry: opioids and analgesic combinations. *Compend Cont Educ Dent* 1986; 7:746-753.
159. Dionne RA: Suppression of dental pain by the preoperative administration of flurbiprofen. *Amer J Med* 80(Suppl 3A) 1986; :41-49.
160. Dionne RA: Methodological needs and pharmacological research with adult dental patients.

Anesth Prog 1986; 33: 50-5486.

161. Dionne RA: Pain control in dentistry: The basis for rational therapy. *Compend Cont Educ Dent* 1985; 6:15-24.
162. Sisk AL, Dionne RA and Wirdzek PR: Evaluation of etidocaine hydrochloride for local anesthesia and postoperative pain control in oral surgery. *J Oral Maxillofac Surg* 1984; 42:84-88.
163. Dionne RA, Goldstein DG and Wirdzek PR: Effects of diazepam premedication and epinephrine containing local anesthetic on cardiovascular and plasma catecholamine responses to minor surgery. *Anesth Analg* 1984; 63:640-646.
164. Dionne RA: Differential pharmacology of drugs used for intravenous premedication. *J Dent Res* 1984; 63:842-847.
165. Dionne RA, Wirdzek PR, Fox PC and Dubner R: Suppression of postoperative pain by the combination of a non-steroidal anti-inflammatory drug, flurbiprofen, and a long-acting local anesthetic, etidocaine. *J Amer Dent Assoc* 1984; 108:598-601.
166. Dionne RA, Wirdzek PR, Butler DP and Fox PC: Comparison of conorphone, a mixed agonist-antagonist analgesic, and codeine for postoperative dental pain. *Anesth Prog* 1984; 31:77-81.
167. Dionne RA, Mueller GP, Young RF, Greenberg RP, Hargreaves KM, Gracely R and Dubner R: Contrast medium causes the apparent increase in beta-endorphin levels in human cerebrospinal fluid following brain stimulation. *Pain* 1984; 20:313-321.
168. Dionne RA, Campbell RL, Cooper SA, Hall DL and Buckingham B: Suppression of postoperative pain by pre-operative administration of ibuprofen in comparison to placebo, acetaminophen and acetaminophen plus codeine. *J Clin Pharmacol* 1983; 23:37-43.
169. Dionne RA, Sisk AL, Fox PC, Wirdzek PR, Gracely RH and Dubner R: Suppression of postoperative pain by preoperative administration of flurbiprofen in comparison to acetaminophen and oxycodone plus acetaminophen. *Curr Ther Res* 1983; 34:15-29.
170. Dionne RA: Review articles for continuing education in pharmacology. *J Dent Educ* 1983; 47:547-549.
171. Hargreaves KM, Dionne RA and Mueller GP: Plasma beta-endorphin-like immunoreactivity, pain and anxiety following administration of placebo in oral surgery patients. *J Dent Res* 1983; 62:1170-1173.
172. Dionne RA, Driscoll E.J, Butler DP, Wirdzek PR and Sweet JP: Evaluation by thoracic impedance cardiography of diazepam, placebo and two drug combinations for intravenous sedation in dental outpatients. *J Oral Maxillofac Surg* 1983; 41:782-788.

- 173.Hargreaves KM and Dionne RA: Endogenous pain pathways: applications to pain control in dental practice. *Compend Cont Educ Dent* 1982; 3:161-168.
- 174.Dionne RA and Campbell RL: Evaluation of a self-instructional program for continuing education in pharmacology. *Anesth Prog* 1982; 29:108-109.
- 175.Goldstein DS, Dionne RA, Sweet J, Gracely R, Brewer HB, Gregg R and Keiser HR: Circulatory plasma catecholamine,cortisol, lipid and physiological responses to a real-life stress (third molar extractions): effects of diazepam sedation and of inclusion of epinephrine with the local anesthetic. *Psychosom Med* 1982; 44: 259-273.
- 176.Dionne RA, Driscoll EJ, Gelfman SS, Sweet JB, Butler DP and Wirdzek PR: Cardiovascular and respiratory response to intravenous diazepam, fentanyl and methohexital in dental outpatients. *J Oral Surg* 1981; 39:343-349.
- 177.Dionne RA: The pharmacological basis of pain control in dental practice: intravenous premedication. *Compend Cont Educ Dent* 1981; 2:25-32.
- 178.Dionne RA: The pharmacological basis of pain control in dental practice: nitrous oxide. *Compend Cont Educ Dent* 1981; 2:271-276.
- 179.Pert A, Dionne RA, Ng L, Bragin E, Moody TW and Pert CB: Alterations in rat central nervous system endorphins following transauricular electroacupuncture. *Brain Res* 1981; 224:83-93.
- 180.Gelfman SS, Dionne RA, Driscoll EJ: Prospective study of venous complications following intravenous diazepam in outpatients. *Anesth Prog* 1981; 28:126-128.
- 181.Dionne RA: The pharmacological basis of pain control in dental practice: analgesics. *Compend Cont Educ Dent* 1980; 1:191-196.
- 182.Dionne RA: The pharmacological basis of pain control in dental practice: local anesthetics. *Compend Cont Educ Dent* 1980; 1:229-235.
- 183.Campbell RL, Satterfield SD, Dionne RA and Kelly DE: Post anesthetic morbidity following fentanyl, diazepam and methohexital sedation. *Anesth Prog* 1980; 27: 45-48.
- 184.Naber D, Pickar D, Dionne RA, Bowie DL, Ewels BA, Moody TW, Soble MG and Pert CB: Assay of endogenous opiate receptor ligands in human CSF and plasma. *Subst Alcoh Act. /Misuse* 1980; 1:113-118.
- 185.Campbell RL, Dionne RA, Gregg JM and Duncan G: Cardiorespiratory effects of intravenous fentanyl, diazepam and methohexital sedation. *J Oral Surg* 1979; 37:555-561.
- 186.Dionne RA and Campbell RL: Survey of general anesthesia residency training for dentists. *Anesth Prog* 1979; 26:5-8.

187. Dionne RA and Cooper SA: Evaluation of preoperative ibuprofen on postoperative pain after impaction surgery. *Oral Surg, Oral Med, Oral Path* 1978; 45: 851-856.
188. Dionne RA and Campbell RL: Survey of curriculum and instruction: continuing education courses in pain control. *J Dent Educ* 1978; 42:186-191.
189. Baumel IB, Gallagher BB, DiMicco J, and Dionne RA: Metabolism, distribution and anticonvulsant properties of N,N-dimethoxymethyl-phenobarbital in the rat. *J. Pharmacol Exp Ther* 1976; 196:180-187.
190. Dionne RA, Dewey WL and Joy E: A survey of the teaching of pain at the predoctoral level. *Anesth Prog* 1976; 23:152-154.
191. Gillis RA, Dionne RA and Standaert FG: Suppression by clonidine (ST-155) of cardiac arrhythmias-induced by digitalis. *J Pharmacol Exp Ther* 1972; 182:218-226.

Abstracts

1. Gillis RA, Dionne RA and Standaert FG: Suppression by clonidine (ST-155) of digitalis-induced arrhythmias. *The Pharmacologist* 13:225, 1971.
2. Baumel IB, Gallagher BB, Pieres C, Dionne RA and Fales H: Comparison of the metabolism of n-alkoxymethyl substituted hydantoin and barbiturates by rat-liver homogenates. *Fed Proc* 34:785, 1975.
3. Dionne RA, Joy E, and Dewey WL: The results of a survey on teaching of pain and anxiety control in dental schools. *J Dent Educ* 40:46, 1976.
4. Dionne RA and Cooper SA: Evaluation of preoperative ibuprofen for postoperative pain following third molar removal. *J Dent Res* 57:A122, 1978.
5. Dionne RA, Campbell RL, Alexander JM, Mercuri LG and Auerbach S: Development of a model to evaluate anti-anxiety agents in dental outpatients. *J Dent Res* 58:All0, 1979.
6. Dionne RA and Campbell RL: Evaluation of a self-instructional program for continuing education in pharmacology. *J Dent Educ* 43:35, 1979.
7. Dionne RA, Campbell RL, Cooper SA, Hall DL and Buckingham B: Inhibition of postoperative pain by preoperative administration of a non-steroidal anti-inflammatory analgesic, ibuprofen. *Amer Pain Soc Abstracts*, 1979.
8. Ng L, Dionne RA, Bragin E, Pert CB and Pert A: Alterations in rat central nervous system endorphins following trans-auricular electroacupuncture. *Soc Neurosci Abstracts*, 1980.

9. Dionne RA, Goldstein D, Sisk A, Sweet J, Wirdzek PR and Macynski AA: Circulating epinephrine levels following local anesthetic administration. *J Dent Res* 60:A462, 1981.
10. Dionne RA, Fox PC, Gracely RH and Wirdzek PR: Inhibition of postoperative pain by preoperative administration of flurbiprofen. *J Dent Res* 60:A609, 1981.
11. Dionne RA, Sisk AL, Fox PC, Wirdzek PR and Gracely RH: Suppression of postoperative pain by preoperative administration of flurbiprofen in comparison to oxycodone plus acetaminophen. *Pain Suppl* 1:S248, 1981.
12. Sisk AL, Dionne RA and Wirdzek PR: Evaluation of etidocaine HCl for local anesthesia in oral surgery. *J Dent Res* 61:276, 1982.
13. Dionne RA, Wirdzek PR and Gracely RH: Suppression of postoperative pain by flurbiprofen, a non-steroidal anti-inflammatory drug, and etidocaine, a long-acting local anesthetic. *Amer Pain Soc Abstr*, 1982.
14. Dionne RA, Mueller GP, Greenberg RP, Gracely RH and Dubner R: Endorphin levels in human cerebrospinal fluid following surgical stress and deep brain stimulation. *Amer. Pain Soc Abstr*, 1982.
15. Dionne RA: Differential pharmacology of agents used for intravenous sedation. *J Dent Res* 62:166, 1983.
16. Dionne RA, Goldstein DS, Wirdzek PR and Butler DP: Catecholamine response to epinephrine-containing local anesthetics and diazepam sedation. *J Dent Res* 62:213, 1983.
17. Dionne RA, Butler DP, Wirdzek PR and Sisk AL: Effects of flurbiprofen and methylprednisolone on postoperative pain and swelling. *J Dent Res* 62:674, 1983.
18. Dionne RA, Wirdzek PR, Butler DP, Fox PC and Dubner R: Comparison of conorphone, a mixed agonist-antagonist analgesic, to codeine. *Amer Pain Soc Abstr*, 1983.
19. Hargreaves KM, Dionne RA, Maiewski S and Mueller GP: Benzodiazepine inhibition of pituitary beta-endorphin release and anxiety in humans undergoing oral surgery. *Endocrinol (Excerpta Medica)* 652:675, 1984.
20. Mueller GP, Maiewski S, Hargreaves KM, Dionne RA: A benzodiazepine receptor mechanism regulates the release of beta-endorphin in rats. *Endocrinol (Excerpta Medica)* 652:675, 1984.
21. Hargreaves KM, Dionne RA and Mueller GP: Pituitary beta-endorphin release and subjective responses to surgical stress following naloxone, fentanyl or placebo in humans. *Pain Suppl.* 2:S406, 1984.

22. Dionne RA, Wirdzek PR, Butler DP, Hilton EA and Dubner R: Evaluation of the combination of flurbiprofen and etidocaine for the suppression of postoperative dental pain. *Pain, Suppl. 2*:S60, 1984.
23. Hargreaves KM, Mueller G, Dubner R and Dionne R: Analgesic actions of corticotropin releasing factor following oral surgery. *J Dent Res* 65:228, 1986.
24. Dionne RA, Mueller G, Schmidt EA and Hargreaves KM: Effects of dexamethasone (DEX) on post-operative pain and plasma levels of immunoreactive beta-endorphin (iB-END). *Clin Pharmacol Therap* 41:180, 1987.
25. Troullos E, Dionne RA, Brahim J and Hargreaves KM: Pain, swelling and beta-endorphin levels during oral surgery following ibuprofen or methylprednisolone. *J Dent Res* 66:174, 1987.
26. Lavigne G, Hargreaves KM, Mueller GP, Schmidt E, Dionne RA: Potentiation of morphine analgesia by proglumide for acute clinical pain. *Pain (Suppl 4)*:S229, 1987.
27. Singer EJ, Sharav Y, Dubner R, Dionne RA: The efficacy of diazepam and ibuprofen in the treatment of chronic myofascial orofacial pain. *Pain (Suppl 4)*:S83, 1987.
28. Snyder J, Hargreaves KM, Dionne RA: Comparison of flurbiprofen to acetaminophen, acetaminophen plus codeine, and placebo in the oral surgery model. *Clin Pharmacol Therap* 43:141, 1988.
29. Troullos ES, Dionne R, Schmidt ES, Hargreaves KM: Blood levels of immunoreactive bradykinin increase during oral surgery. *J Dent Res* 67 (Special Issue):212, 1988.
30. Dionne RA, Troullos ES, Goldstein DS, Hargreaves KM: Release of beta-endorphin following mild physical stress: administration of local anesthesia. *J Dent Res* 67 (Special Issue):213, 1988.
31. Lavigne GJ, Millington WR, Dionne RA, Mueller GA: The interaction between cholecystokinin and opioid systems in the reaction to thermal stimuli. *J Dent Res* 67 (Special Issue):213, 1988.
32. Schmidt EA, Hargreaves KM, Dionne RA: Surgical trauma and duration as predictors of post-operative pain. *J Dent Res* 67 (Special Issue):212, 1988.
33. Dionne RA, Gift HC: Survey of techniques and drugs used for parenteral sedation in dental practice. *J Dent Res* 67 (Special Issue):298, 1988.
34. Gracely R, Gaughan A, Meister B, Dionne R, Hargreaves KM, Dubner R: Staircase assessment of opiate analgesia time course: effect of infusion rate and naloxone antagonism. *Amer Pain Soc Abstract #SS 5D*, 1988.

35. Dionne RA, Kaufman E, Hargreaves KM: Evaluation of oral triazolam and nitrous oxide for outpatient premedication. *J Dent Res* 69 (Special Issue):277, 1990.
36. Dionne RA, Troullos ES, Hargreaves KM: Ibuprofen elevates immunoreactive beta-endorphin in humans during surgical stress. *Clin Pharmacol Therap* 47(2):147, 1990.
37. Dionne RA: Reversal of diazepam sedation by flumazenil, a benzodiazepine antagonist. *J Dent Res* 70:444, 1991.
38. Dionne RA, Dobbins KR, Hargreaves KM: Evaluation of a kappa opioid agonist, spiradoline, in comparison to morphine and placebo in the oral surgery model. *Clin Pharmacol Therap* 49:183, 1991.
39. Hargreaves KM, Keating K, Cathers SJ, Dionne RA. Analgesic effects of morphine after PDL injection in endodontic patients. *J Dent Res* 70:444, 1991.
40. Dionne RA, Yagiela JA, Moore PA et al: Evaluation of the efficacy and safety of IV premedication for dental outpatients. *Anesth Analg* 74:S68, 1992.
41. Dionne RA: Evaluating the safety and efficacy of parenteral drugs for dental outpatients. *J Dent Res* 71:107, 1992.
42. Dionne RA, Carr DB, Petriccioni JD, Watkins WD: Evaluation of drugs used for anesthesia and pain control. *J Dent Res* 71:107, 1992.
43. Reid KI, Sinnwell TM, Dionne RA, Dubner R, McLaughlin AC, Frank JA, Soueidan S: Magnetic resonance spectroscopy during isometric and isotonic exercise. *J Dent Res* 71:602, 1992.
44. Dionne RA: Additive effects of oxycodone and ibuprofen for postoperative pain. *J Dent Res* 72:186, 1993.
45. Berthold CB, Dubner R, Dionne RA: Clinical evaluation of H1 and H2 receptor antagonists for acute postoperative pain. *J Dent Res* 72:414, 1993.
46. Dionne RA, Tahara MA, Rowan JS: Peripheral administration of low dose ketoprofen is analgesic in the oral surgery model. 7th World Congress on Pain, Paris, 1993.
47. Gilligan DM, Berthold CW, Yamine AR, Dionne RA, Quyyumi AA, Cannon RO: Endorphin release during exercise in patients with chest pain and normal coronary arteries and patients with coronary artery disease. 7th World Congress on Pain, Paris, 1993.
48. Berthold CW, Dionne RA: Comparison of sublingually and orally administered triazolam for premedication prior to oral surgery. *J Dent Res* 73:210, 1994.

49. Gordon SM, Tahara MA, Rowan JS, Dionne RA, Dubner R: Comparative analgesic efficacy of peripherally versus orally administered ketoprofen gel. *J Dent Res* 73:438, 1994.
50. Phero JC, Dionne RA, McCullagh LM, Gordon SM: Assessment of clinical needs for anesthesia and sedation in the general population. *Amer Dent Soc Anesth*, Boston, 1994.
51. Hargreaves K, Lepinski A, Dionne RA: Dose-response evaluation of peripheral morphine in endodontic patients. *Amer Assoc Endo*, Hawaii, 1994.
52. Brahim J, Gordon S, McCullagh L, Jabir F, Dionne RA, Dubner R: Suppression of postoperative pain by presurgical administration of a long-acting local anesthetic. *Amer Assoc Oral Maxillofac Surg*, 1994.
53. Gordon SM, Dionne RA, Brahim J, Dubner R: Blockade of peripheral neuronal barrage reduces postoperative pain. *J Dent Res* 74:178, 1995.
54. Dionne RA, Gordon SM, Rowan JS: Pharmacokinetic comparison of peripherally versus orally administered ketoprofen gel. *J Dent Res* 74:420, 1995.
55. Snyder J, Gordon SM, Dionne RA: Need for anesthesia services in special care patients. Annual meeting of the Amer Assoc Public Health Dent, Las Vegas, 1995.
56. Dionne RA, Gordon SM, Dubner R: Relationship of prostaglandin E2 to acute pain and analgesia. *J Dent Res* 75:137, 1996.
57. Gracely RH, Smith WB, Dionne RA, Max MB: Fentanyl but not the substance P antagonist CP-99,994, reduces A delta and C-fiber mediated heat pain sensations in normal and capsaicin-treated skin. Annual meeting of the American Pain Society, 1996.
58. Dionne RA, Max MB, Parada S, Gordon SM, MacLean DB: Evaluation of a neurokinin1 antagonist, CP-99,994, in comparison to ibuprofen and placebo in the oral surgery model. *Clin Pharmacol Therap* 60:216, 1996.
59. DeNucci DJ, Dionne RA, Graham B, Smoller B, Brodski J, Dubner R: Relationship of sleep disorders to the pathophysiology of chronic orofacial pain. *J Dent Res* 75:433, 1996.
60. Dionne RA: Review of preemptive analgesia for dental pain. *J Dent Res* 75:136, 1996.
61. Reid KI, Dionne RA, DeNucci DJ, Dubner R: Effect of TMJ anesthesia on muscle pain pressure thresholds. *J Dent Res* 75:433, 1996.
62. Ehrich D, Lundgren J, Dionne RA, Nicoll B, Hutter J: Comparison of oral triazolam, diazepam, and placebo as outpatient premedication for endodontic patients. *J Dent Res* 75:267, 1996.

63. Dionne RA, Gordon SM, Brahim J, Dubner R: Evaluation of the NMDA receptor antagonist dextromethorphan in the oral surgery model. 8th World Congress on Pain, Vancouver, 1996.
64. DeNucci DJ, Dionne RA, Chen CC, Meehan SC, Dubner R: Single photon emission computed tomography (SPECT) bone scanning in the diagnosis of chronic idiopathic jaw pain. 8th World Congress on Pain, Vancouver, 1996.
65. Gordon SM, Dionne RA: Oral surgery as a model of central hyperalgesia. *Clin Pharmacol Therap* 61:197 1997.
66. Dionne RA, McCullagh L: Analgesic efficacy of S(+) isomer of ibuprofen in comparison to racemic ibuprofen. *Clin Pharmacol Therap* 61:195 1997.
67. Berthold CW, Corey SE, Dionne RA: Triazolam drug levels following sublingually and orally administered premedication. *J Dent Res* 76 (Special Issue):114, 1997.
68. Gordon SM, Rowan J, Dionne RA: Evaluation of a peripherally-administered opioid in the oral surgery model. *J Dent Res* 76 (Special Issue):154, 1997.
69. Gordon SM, Dionne RA, Brahim JS, Sang CN, Dubner R: Differential effects of local anesthesia on central hyperalgesia. *J Dent Res* 76 (Special Issue):153, 1997.
70. Denucci DJ, Dionne RA, Chen CC, Meehan SE: SPECT bone scanning in the diagnosis of chronic idiopathic jaw pain. *J Dent Res* 76 (Special Issue):237, 1997.
71. Dionne RA, Gordon SM, Brahim JS, Rowan J, Kent AA: Peripheral PGE₂ levels following tissue injury and NSAID analgesia. *Clin Pharmacol Therap* 63:240, 1998.
72. Chin K, Dionne RA: Retrospective evaluation of gender and race on acute pain. *Amer Assoc Dent Res*, Minneapolis, 1998.
73. Gordon SM, Brahim JS, Jaber L, Kent AA, Dionne RA. Additive analgesic effect of an NMDA receptor blocker-opioid combination in the oral surgery model. *Inter Assoc Dent Res*, Nice France 1998.
74. Gordon SM, Chin K, Brahim JS, Dionne RA. Evaluation of the influence of gender on the report of acute postsurgical pain. *Inter Assoc Dent Res*, Nice France, 1998.
75. Jaber L, Swaim WD, Brahim JS, Dionne RA. Immunohistochemical localization of Mu-opioid receptors in human dental pulp. *Inter Assoc Dent Res*, Nice France, 1998.
76. Gordon SM, Brahim J, Kent AA, Dionne RA. Quantifying analgesic onset in the oral surgery model. *Amer Soc Clin Pharmacol Therap*, San Antonio, 1999.

77. Jaber L, Brahim J, Rowan J, Dionne RA. Dose-range evaluation of nitroglycerin for postoperative pain following oral surgery. Inter Assoc Dent Res, Vancouver, 1999.
78. Coghill RC, Dionne RA, Gilron I, Rosier EM, Iadarolo MJ. Somatotopic organization of thermal pain processing in the human brain. Inter Assoc Study Pain, Vienna, 1999.
79. Dionne RA, Gordon SM, Brahim JS, Rowan J, Kent AA: Measurement of inflammatory mediator levels following tissue injury and NSAID analgesia in humans. 8th Inter Conf on In Vivo Methods, Stony Brook, 1999, pp 343-344.
80. Dionne RA, Jaber L, Gilron I, Brahim JS, Rowan JS: Effect of the NK-2 antagonist SR 48968C on acute pain and inflammation.. Amer Soc Clin Pharmacol Therap, Los Angeles.
81. Gilron I, Max MB, Lee G, Booher SL, Dionne RA: Safety and analgesic efficacy of the AMPA/kainate antagonist LY293558 following oral surgery. Amer Soc Clin Pharmacol Therap, Los Angeles.
82. Dionne RA, Brahim JS, Rowan JS, Guivarch PH: Analgesic effect of microencapsulated flurbiprofen in the oral surgery model. Amer Soc Clin Pharmacol Therap, Los Angeles.
83. Kent AA, Brahim JS, Gilron I, Rowan JS, Dionne RA: Effect of dexamethasone on PGE₂ and thromboxane B₂ levels following tissue injury. Amer Soc Clin Pharmacol Therap, Los Angeles.
84. Economou AP, Yang HYT, Iadarola MJ, Dionne RA: Expression of COX-2 in tissue biopsies following oral surgery. Amer Soc Clin Pharmacol Therap, Los Angeles.
85. Gordon SM, Dionne RA: Expanding the Capacity for Training in Clinical Research: Partnering Academic, Industry, and Federal Sectors. Inter Assoc Dent Res, Washington, 2000.
86. Khan AA, Dionne RA, Capra NF: In vivo selectivity of cyclooxygenase-2 inhibitors in the oral surgery model. Society for Neuroscience, New Orleans, 2000, pp-1675.
87. Khan AA, Dionne RA: Analgesic efficacy and selectivity of celecoxib, a selective COX-2 inhibitor. Amer Assoc Oral Med, Montreal, March 2001.
88. Kim H, Neubert J, Iadarola M, Goldman D, Dionne R: Evaluation of single nucleotide polymorphisms in opioid receptor as a candidate gene for the sensitivity to painful thermal stimulations. Amer Assoc Oral Med, Montreal, March 2001.
89. Neubert JK, San Miguel A, Iadarola MJ, Kim H-S, Dionne RA: Use of thermal phenotypes for prediction of dental pain analgesic response. Amer Assoc Oral Med, Montreal, March 2001.
90. Ta LE, Pillemer S, Gordon SM, Phero J, Dionne RA: The association of fibromyalgia, thermal pain sensitivity, and chemical sensitivity in patients with failing temporomandibular joint implants. Amer Assoc Oral Med, Montreal, March 2001.

91. Gordon SM, Banks J, Dionne RA: Incidence of adverse effects in a trial of topical thalidomide for recurrent aphthous ulcers. Amer Assoc Oral Med, Montreal, March 2001.
92. Kim H, Neubert JK, Xu K, Nagarajan S, Myslinski NR, Goldman D, Iadarola MJ, Dionne RA: Evaluation of single nucleotide polymorphisms in delta and mu opioid receptors in human subjects phenotyped for sensitivity to painful thermal stimuli. Society for Neuroscience San Diego, 2001, pp-29.
93. Kim H, Neubert JK, Xu K, Guillot P, Iadarola MJ, Goldman D, Dionne RA: Evaluation of single nucleotide polymorphisms in opioid receptor and vanilloid receptor in human response to painful thermal stimulation. American Society for Clinical Pharmacology and Therapeutics, Atlanta, 2002.
94. Khan AA, Yang H-Y T, Iadarola MJ, Dionne RA: Expression of cyclooxygenase-1 and -2 in acute inflammation following surgical trauma in human subjects. American Society for Clinical Pharmacology and Therapeutics, Atlanta, 2002.
95. Warburton G, Nares S, Brahim J, Wahl SM, Dionne, RA. Transcriptional events associated with pain onset in a clinical model of tissue injury using gene array analysis. American Association for Oral and Maxillofacial Surgery, Toronto, 2003.
96. Kim H-S, Neubert JK, Iadarola MJ, Goldman D, Dionne, RA. Evaluation of single nucleotide polymorphisms in genes related to the vanilloid receptor and cyclooxygenase-2 in human pain sensitivity. American Society for Clinical Pharmacology and Therapeutics, Washington, DC, 2003.
97. Hassan M, Hattery D, Chernomordik V, Toda K, Fukuhara K, Rowan J, Shah J, Gerber L, Dionne RA, Kopin I, Gandjbakhche AH. Infrared thermographic Imaging for the assessment of temperature asymmetries in reflex sympathetic dystrophy: preliminary results. IEEE International Symposium on Biomedical Imaging, Washington, DC, July 7-10, 2002.
98. Kim H, Rowan J, Brahim J, Goldman D, Herscovitch P, Dionne RA. The association between catechol-O-methyltransferase gene (COMT) variation and acute post-surgical pain in humans. Annual Meeting of Society for Neuroscience, November 2003.
99. Krishnaraju RK, Kim H, Neubert JK, Iadarola MJ, Fukuhara K, Goldman D, Dionne RA. Use of classification and regression tree (CART) analysis for study of genetic contributions to experimental pain in humans. Annual Meeting of Society for Neuroscience, November 2003.
100. Krishnaraju RK, Kim H, Goldman D, Dionne RA. The haplotype structure in the gene encoding delta-opioid receptor in humans. Clin Pharmacol Therap, 75: P70, 2004.

101. Kim H, Picco C, Rowan J, Brahim J, Dionne RA. The influence of tumor necrosis factor gene polymorphisms on experimental and clinical pain responses in humans. *Clin Pharmacol and Therap*, 75: P70, 2004.
102. Kim H, Krishnaraju RK, Goldman D, Dionne RA. Association between haplotype structure in the genes encoding thermosensitive channels and experimental pain sensitivity in European Americans. Annual meeting of the American Pain Society, 2004, Vancouver.
103. Lee Y, Rodriguez C, Kim H, Dionne RA. COX-2 gene expression 48 hours following surgery using 18S rRNA as internal standard in human oral mucosa. Annual meeting of the American Pain Society, May, 2004, Vancouver.
104. Lee Y, Kim H, Dionne RA. Expression patterns and genetic polymorphisms of cyclooxygenase (COX) genes in a clinical model of tissue injury. NIH Research Festival, September, 2004.
105. Kim H, Fukuhara K, Goldman D, Dionne RA. Effect of catechol O-methyltransferase gene (*COMT*) polymorphisms on personality trait in humans. Annual meeting of Society for Neuroscience, October 2004.
106. Lee Y, Kim H, Dionne RA. Gene expression patterns of pro-inflammatory genes in a clinical model of tissue injury. Annual meeting of Society for Neuroscience, October 2004.
107. Wang, X.M., Lee, Y.S. Wu, T.X. and Dionne, R.A. Different effects of rofecoxib and ibuprofen on gene expression due to inflammation and pain in a clinical model of tissue injury. The 34th annual meeting of Society for Neuroscience, San Diego, CA, 2004.
108. Kim H, Dionne RA. Haplotype structure in the genes encoding thermosensitive receptors and experimental pain sensitivity in humans. Annual meeting of American Society of Human Genetics, October 2004.
109. Lee Y, Kim H, Rodriguez C, Dionne RA. Effects of a dual COX-1/-2 inhibitor and a selective COX-2 inhibitor on pro-inflammatory gene expression in a clinical model of tissue injury. *Clin Pharmacol Therap*, 77:P9, 2005.
110. Mittal PD, Kim H, Brahim J, Rowan J, Dionne RA. The association between cyclooxygenase gene polymorphisms and acute post-surgical pain in humans. *Clin Pharmacol Therap*, 77:P20, 2005.
111. Kim H, Dionne RA. Haplotype structures of cyclooxygenase genes in human ethnic populations. *Clin Pharmacol Therap*, 77:P64, 2005.
112. Wang, X.M., Wu, T.X., Lee, Y.S. and Dionne, R.A. Gene expression in the arachdonic acid pathway due to tissue injury and inflammation, an NSAID, and coxib in clinical model of pain. *Clin Pharmacol Therap* 77:P8, 2005.

113. Mittal PD, Kim H, Brahim J, Rowan J, Dionne RA. Relationship between Catechol-O-methyltransferase (COMT) gene polymorphisms and acute clinical pain. Annual meeting of the International Association of Dental Research, 2005.
114. Kim H, Dionne RA. Classification and regression tree (CART) analysis of experimental pain sensitivity in humans. Annual meeting of the American Pain Society, April 2005
115. Wang, X.M., Lee, Y.S., Wu, T.X., Nares, S. and Dionne, R.A. Rofecoxib-induced changes in gene expression related to coagulation in a clinical model of tissue injury. The 24th annual meeting of the American Pain Society, Boston, MA, 2005.
116. Lee Y, Kim H, Dionne RA. Genetic polymorphisms and cyclooxygenase (COX) inhibitory drugs alter COX expression patterns in a clinical model of tissue injury. 11th World Congress on Pain, Aug 2005
117. Kim H, Dionne RA. Genetic predictors for acute experimental cold / heat pain sensitivity in humans. 11th World Congress on Pain, Aug 2005
118. Wang, X.M., Wu, T-X and Dionne, R.A. Rofecoxib-induced changes in gene expression in the plasminogen pathway during acute inflammation in humans. The 11th World Congress on Pain, Sydney, Australia, 2005.
119. Wang XM, Imanguli MM, Dionne RA, Pavletic SZ. Identification of differential gene expression in human chronic graft-versus-host disease: A pilot microarray study. Eastern Nursing Research Society, March 2008.
120. Hamza M, Wang X, Adam A, Carmona GN, Dionne RA. Ketorolac does not modulate nitric oxide, Kinin B₁ receptor or its endogenous ligands at the early phase of acute inflammatory pain in the oral surgery model. *Clinical Pharmacol Therap* 2009; 85:542.
121. Hamza M, Wang X, Wu T, Dionne RA. IL-6, IL-8 and CCL2 are correlated to pain intensity but not modulated by Ketorolac in a clinical model of acute inflammatory of pain. *Clin. Pharmacol Therap* 2009; 85:542.
122. Wang XM, Dorsey S, Renn CL, Dionne RA. Paclitaxel regulates clock gene expression of Dbp: Implication for chemotherapy-induced peripheral neuropathy.
123. Wang XM, Wu T, Gordon SM, Dionne RA. Up-regulation of inflammatory gene expression contributes to the cytotoxicity of the long-acting local anesthetic bupivacaine.

PROFESSIONAL SOCIETIES

American Association for Dental Research

Member-at-Large, PTTG, 1989-1990
President-Elect, PTTG, 1991-1992
President, PTTG, 1992-1993

American Society for Clinical Pharmacology and Therapeutics
Member, ASCPT/FDA Analgesic Guidelines Committee, 1989-1992
Vice-Chair, Analgesiology and Headache Section, 2001-2004
Chair, Analgesiology and Headache Section, 2004-2005

American Dental Society of Anesthesiology
Board of Directors, 1983-1990