

# CURRICULUM VITAE

## Education

<u>Institution and Location</u>	<u>Degree</u>	<u>Dates</u>	<u>Field</u>
St. Ambrose University Davenport, IA	B.S.	1980-1984	Biology/Philosophy
University of Iowa Iowa City, IA	M.S.	1987-1989	Plant Biochemistry
University of Iowa Iowa City, IA	Ph.D.	1991-1994	Anatomy and Cell Biology

## Professional Experience

8/2008-	Professor of Cell Biology Missouri State University
7/2006-	Director, Center for Biomedical & Life Sciences Missouri State University
6/2005-7/2008	Associate Professor of Cell Biology Missouri State University (formerly Southwest Missouri State University)
8/2004-6/2006	Executive Director - Center for Applied Science and Engineering Missouri State University
8/2001-5/2005	Assistant Professor of Cell Biology Southwest Missouri State University
4/1998-7/2001	Assistant Research Scientist, Department of Physiology University of Iowa (Dr. Andrew Russo)
1/1995-3/1998	Postdoctoral Fellow, Department of Physiology University of Iowa (Dr. Andrew Russo)
1/1990-7/1991	Research Asst. II, Department of Anatomy University of Iowa (Dr. Jeanne Snyder)
6/1985-12/1986	Research Asst. II, Speech Pathology and Audiology University of Iowa (Dr. Ingo Titze)
7/1984-5/1985	Research Asst. I, Speech Pathology and Audiology University of Iowa (Dr. Adrienne Perlman)

## Teaching Experience (Primary Courses Only)

8/10-12/12	Course Director- MSU	BIO 597/697 Diseases of the Nervous System
8/10-12/12	Course Director- MSU	BIO 320 Molecular Cell Biology (lecture)
1/11-5/12	Course Director- MSU	BIO 597/730 Diabetes
1/11-5/12	Course Director-MSU	BIO 597/697 Advanced Developmental Biology
8/10-12/11	Course Director- MSU	BIO 597/697 Cancer Biology
8/10-12/11	Course Director- MSU	BIO 320 Molecular Cell Biology (lecture)
1/11-5/11	Course Director-MSU	BIO 728 Diseases of the Nervous System
1/11-5/11	Course Director-MSU	BIO 697 Advanced Developmental Biology
8/10-12/10	Course Director- MSU	BIO 597/697 Molecular Cell Biology Techniques (lab)
8/10-12/10	Course Director- MSU	BIO 320 Molecular Cell Biology (lecture)
1/10-5/10	Course Director-MSU	BIO 355/655 Developmental Biology (lecture and lab)
8/09-12/09	Course Director-MSU	BIO 620 Mechanisms of Pain (seminar course)

8/09-12/09	Course Director-MSU	BIO 121 General Biology I (lecture)
1/09-5/09	Course Director-MSU	BIO 355/655 Developmental Biology (lecture and lab)
8/08-12/08	Course Director- MSU	BIO 320 Molecular Cell Biology (lecture)
1/08-5/08	Course Director-MSU	BIO 355/655 Developmental Biology (lecture and lab)
8/07-12/08	Course Director- MSU	BIO 320 Molecular Cell Biology (lecture)
1/07-5/07	Course Director-MSU	BIO 355/655 Developmental Biology (lecture and lab)
8/06-12/06	Course Director- MSU	BIO 320 Molecular Cell Biology (lecture)
1/06-5/06	Course Director-MSU	BIO 355/655 Developmental Biology (lecture and lab)
8/01-12/05	Course Director-MSU	BIO 320 Molecular Cell Biology (lecture and lab)
1/05-5/05	Course Director-SMSU	BIO 355/655 Developmental Biology (lecture and lab)
8/04-12/04	Course Director-SMSU	BIO 597 Neurogenic Inflammation (seminar course)
1/04-5/04	Course Director-SMSU	BIO 630 Neurobiology of Disease (seminar course)
1/02-5/03	Course Director-SMSU	BIO 121 General Biology I (lecture)
1/00-5/00	Lecturer/Lab Instructor	Intermediate Physiology ( <i>pharmacy students</i> )
1/99-7/99	Lab Instructor	Intermediate Physiology ( <i>pharmacy students</i> )
1/99-5/99	Lab Instructor	Intermediate Physiology ( <i>dental students</i> )
9/98-12/98	Lecturer	Systemic Physiology ( <i>for nursing students</i> )
8/93-12/93	Teaching Assistant	Histology ( <i>for medical and dental students</i> )
1/93-5/93	Lecturer	Human Anatomy ( <i>for nursing students</i> )
8/92-12/92	Teaching Assistant	Histology ( <i>for medical and dental students</i> )
8/89-12/89	Teaching Assistant	Introduction to Botany ( <i>for biology majors</i> )
1/89-5/89	Teaching Assistant	Human Biology ( <i>day &amp; night class</i> )
8/88-12/88	Teaching Assistant	Introduction to Biology ( <i>for non-majors</i> )
8/87-12/87	Teaching Assistant	Introduction to Biology ( <i>for non-majors</i> )
8/83-12/84	Teaching Asst.	Introduction to Chemistry ( <i>undergraduate</i> )

### **Honors and Awards**

- Reviewer for NIH Grant Study Section, Special Emphasis Panel ZDE1 JR (15), March 2012
- Selected as Program Committee Member, AAOP 2011 Annual Meeting
- Reviewer for NIH Grant Study Section, NCCAM, RFA-AT-10-002 "Centers of Excellence for Research on CAM (CERC) for Pain (P01), December 2010
- Invited Chair of 2010 Shanghai International Conference on Traditional Chinese Medicine and Natural Medicine, Hangzhou, China, October 2010
- Invitation to participate in NIH-sponsored workshop for development of the second phase of a strategic planning effort for headache research, May 2010
- Chosen as Chair of Scientific Meeting: Fresh Insights into the Pathophysiology of Primary and Secondary Headache Disorders, National Headache Foundation, Chicago, October 2009
- Chosen as Co-Chair of Teaching Course: Fresh Insights into the Pathophysiology of Primary and Secondary Headache Disorders, 14<sup>th</sup> Congress of International Headache Society, Philadelphia, September 2009
- Reviewer for NIH Grant Study Section, Special Emphasis Panel/Scientific Review Group ZRG1 CFS-E(01)S Chronic Fatigue Syndrome, Fibromyalgia Syndrome, and Temporomandibular Disorders, June 2008
- Reviewer for NIH Grant Study Section, Special Emphasis Panel/Scientific Review Group 2007/10 ZNS1 SRB-R (30) Migraine: Neural Mechanisms and Risk Factors for Progression, July 2007
- Foundation Award in Research, Missouri State University, June 2007
- Outstanding Thesis Advisor Award, Missouri State University, May 2007
- Reviewer for NIH Grant Study Section, Special Emphasis Panel/Scientific Review Group 2007/05 ZDE1 YL (41) meeting, March 2007

- Reviewer for NIH Grant Study Section, Special Emphasis Panel/Scientific Review Group 2007/05 ZRG1 CFS-E (01) meeting, March 2007
- Best Poster Presentation at the American Academy of Orofacial Pain Meeting, April 2006
- Reviewer for NIH Grant Study Section, Special Emphasis Panel/Scientific Review Group 2006/05 ZDE1 MK (63) meeting, April 2006
- Reviewer for NIH Grant Study Section, Special Emphasis Panel/Scientific Review Group 2006/05 ZAR1 MLB-G (M1) (1) meeting, March 2006
- Reviewer for NIH Grant Study Section, Special Emphasis Panel/Scientific Review Group 2006/05 ZDE1 RK (41) meeting, March 2006
- Reviewer for NIH Grant Study Section, Special Emphasis Panel/Scientific Review Group 2006/05 ZRG1 IFCN-F (03) meeting, February 2006
- Excellence In Innovation Award from Allergan, 2005
- Nominated by NIH for Presidential Early Career Award for Science and Engineers, 2005
- Reviewer for NIH Grant Study Section, Special Emphasis Panel/Initial Review Group 2005/01 ZRG1 CFS (01) (S) , December 2004
- University Award for Research, Southwest Missouri State University, 2004
- Invited Presentation at NIH workshop on migraine headache, Boston, 2004
- Invited Perspective Article for *New England Journal of Medicine*, 2004
- Content Review Board member for The Professional Television Network - Neurology, 2004
- Invited Review Article for *Current Opinion in Investigational Drugs*, 2004
- Participant in Sinus Headache-A Multidisciplinary Expert Research Panel Review, Dallas, 2003
- SMSU College of Natural and Applied Sciences Excellence in Research Award, 2003
- Southwest Missouri State University Summer Faculty Fellowship, 2002
- Appointment to Graduate Faculty status at Southwest Missouri State University, 2002
- Southwest Missouri State University Faculty Research/University Grant, 2001
- Iowa Microscopy Society Research Excellence Award, 2000
- Invited Review Article for *Pharmacology and Therapeutics*, 2000
- Invited Review Article for *Expert Opinion on Therapeutic Patents*, 2000
- Endocrine Society Travel Award, 1998
- Postdoctoral Fellow Poster Award Winner, U. of Iowa, College of Medicine, 1997
- University of Iowa Cardiovascular Center Fellowship, 1996-1997
- University of Iowa Cardiovascular Center Fellowship, 1995-1996
- Outstanding Teaching Assistants Award at University of Iowa
- Tun-Yang Wing Award for Outstanding First Year Anatomy Student
- University of Iowa Teaching Research Fellowship
- Graduated Cum Laude from St. Ambrose University
- Iowa State University Scholastic Achievement Award
- D.A.R. Award
- American Legion Award

### **Invited Speaker**

American Academy of Orofacial Pain, Orlando, April 2013

MAHAN Conference, New Orleans, March 2013

American Academy of Craniofacial Pain, Sydney, Australia, March 2013

Southern Headache Society, Asheville, NC October 2012

American Chemical Society, San Diego, March 2012

Satellite Meeting – From Electrical Synapses to The Clinics, Bochum, Germany, August 2011

Case Western University, Department of Neurology Grand Rounds, Cleveland, June 2011

American Academy of Orofacial Pain, Las Vegas, April 2011

Eli Lilly, Neurology/Pain Group, Indianapolis, IN, December 2010

University of Kentucky, Chandler Medical Center, May 2010

American Academy of Orofacial Pain, Orlando, FL, April 2010  
 The 23<sup>rd</sup> Annual Practicing Physician's Approach to the Difficult Headache Patient, Scottsdale, Feb 2010  
 Headache Cooperative of the Pacific, 3<sup>rd</sup> Annual Winter Conference, Ojah Valley, Jan 2010  
 14<sup>th</sup> International Headache Congress, Satellite Symposium, Philadelphia, September 2009  
 The 22<sup>nd</sup> Annual Practicing Physician's Approach to the Difficult Headache Patient, Scottsdale, Feb 2009  
 Wake Forest University, Department of Neurology, January, 2009  
 Merck & Co., Inc., Medical Grand Rounds, January, 2009  
 University of Arizona, Pain Center, January 2009  
 50<sup>th</sup> Annual Scientific Meeting of American Headache Society, Boston, June 2008  
 TMJ Association's Fifth Scientific Meeting, Bethesda MD, June 2008  
 American Association of Dental Research Annual Meeting, Dallas, April 2008  
 Harvard University, Beth Israel Medical Center, Department of Anesthesia, November 2007  
 University of Missouri-Columbia, Neuroscience Department, December 2007  
 University of Kansas Medical Center, Anatomy and Cell Biology Department, September 2007  
 49<sup>th</sup> Annual Scientific Meeting of American Headache Society, Chicago, June 2007  
 4<sup>th</sup> Annual Headache Research Summit, Rancho Mirage, CA, February 2007  
 48<sup>th</sup> Annual Scientific Meeting of American Headache Society, Los Angeles, June 2006  
 Society for Neuroscience 35<sup>th</sup> Annual Meeting, Slide Presentation, Washington, DC, Nov, 2005  
 47<sup>th</sup> Annual Scientific Meeting of American Headache Society, Philadelphia, June 2005  
 University of Missouri-Kansas City, Pharmacology Division, Kansas City, MO, April, 2005  
 Washington University, Department of Anesthesiology, School of Medicine, St. Louis, Nov, 2004  
 46<sup>th</sup> Annual Scientific Meeting of American Headache Society, Vancouver, BC, June 2004  
 Saint Louis University, Microbiology and Immunology, School of Medicine, St. Louis, MO, May 2004  
 Kansas State University, Division of Biology, Manhattan, KS, March 2004  
 Sinus Headache-A Multidisciplinary Expert Research Panel Review, Dallas, TX, 2003  
 45<sup>th</sup> Annual Scientific Meeting American Headache Society, Chicago, June 2003  
 Southwest Missouri State University, Biomedical Sciences Department, Springfield, MO, April, 2003  
 Drury University, Pre-Med Society and Integrated Science Program, Springfield, MO, February, 2003  
 44<sup>th</sup> Annual Scientific Meeting American Headache Society, Seattle WA, June 2002  
 Iowa Microscopy Society Meeting, University of Iowa, Iowa City, IA, October, 2000  
 Wartburg College, Biology Department, Waverly, IA, February, 2000  
 International Conference on Migraine (IBC), Philadelphia, April, 1999  
 Hope College, Biology Department, Holland, MI, March 1999  
 Neurology Grand Rounds, University of Iowa, Iowa City, IA, October, 1998  
 International Conference on Migraine (IBC), Philadelphia, April, 1998  
 Harvard Medical School, Migraine Program Project Lecture Series, Boston, February, 1998  
 Society of Neuroscience Meeting, Slide Presentation, New Orleans, October, 1997  
 Coe College, Biology Department, Cedar Rapids, IA, October, 1997  
 Neurology Grand Rounds, University of Iowa, Iowa City, IA, October, 1996

## **Professional Activities**

- Reviewer – *American Journal of Physiology* (1998-present)
- Reviewer – *J. of Orthopaedic and Sports Physical Therapy* (1998-present)
- Reviewer – *European Journal of Neuroscience* (1999-present)
- Reviewer – *Neuroscience Letters* (2000-present)
- Reviewer – The Professional Television Network – Neurology (2004-present)
- Reviewer – *Brain* (2004-present)
- Reviewer – *Brain Research* (2004-present)
- Reviewer – *Medical Science Monitor* (2004-present)

- Reviewer – *Headache* (2005- present)
- Reviewer – *Annals of Neurology* (2005-present)
- Reviewer – *Pain* (2005-present)
- Reviewer – *Cephalalgia* (2005-present)
- Reviewer – *Trends in Pharmacology* (2006-present)
- Reviewer – *Journal of Neurochemistry* (2007-present)
- Reviewer – *Neuroscience* (2007- present)
- Reviewer – *Neuropeptides* (2008- present)
- Reviewer – *FASEB* (2008- present)
- Reviewer – *European Journal of Pain* (2008-present)
- Reviewer – *Journal of Pain* (2008-present)
- Reviewer – *Molecular Pain* (2008-present)
- Reviewer – *Neuron Glia Biology* (2009-present)
- Member – *Complementary and Alternative Medicine Special Interest Section of the American Headache Society*, (2005 – present)
- Editorial Board Member - *Frontiers, Neurology* (2010-present)
- Committee Member – Guidelines Textbook, Education, E-campus for American Academy of Orofacial Pain

### **Professional Organizations**

- Society for Neuroscience
- American Association for the Advancement of Science
- American Headache Society
- Inflammation Research Association
- American Academy of Orofacial Pain
- American Pain Society
- Wound Healing Society

### **Area of Research Interest**

My long-term interest lies in understanding the cellular and molecular mechanisms involved in the synthesis and release of neuropeptides from sensory neurons. A primary goal of my research is to determine the signaling pathways by which inflammatory and anti-inflammatory agents control neuropeptide gene expression in disorders involving the trigeminal nerve. Currently, I am studying the regulation of the neuropeptide calcitonin gene-related peptide gene (CGRP) expression in cultured trigeminal neurons, neuronal-like cell lines, in vivo animal models, and clinical studies. A major focus of my research has been to elucidate the cellular/molecular mechanisms by which antimigraine drugs and inflammatory stimuli that activate MAP kinase pathways regulate CGRP transcription, synthesis, and release from neuronal cells. More recently, I have begun to study the effects of CGRP on glial cells and neuronal-glial cell interactions within the ganglion under normal and inflammatory conditions and have initiated studies to identify novel plant compounds that block trigeminal nerve activation and thus, may be useful in the treatment of diseases involving trigeminal nerves.

## **Peer-reviewed Research Publications**

1. Finkelhor, B.J., Titze, I.R. and **Durham, P.L.** (1987) The Effect of Viscosity Changes in the Vocal Folds on the Range of Oscillation. *J. Voice* 1: 320-325.
2. Alipour-Haghighi, F., Titze, I.R. and **Durham, P.L.** (1987) Twitch Response in the Canine Vocalis Muscle. *J. Speech Hearing Res.* 30: 290-294.
3. **Durham, P.L.** and Poulton, J.E. (1989) Effect of Castanospermine and Related Polyhydroxalkaloids on Purified Myrosinase from *Lepidium sativum* Seedlings. *Plant Physiol.* 90: 48-52.
4. **Durham, P.L.** and Poulton, J.E. (1990) Enzymatic Properties of Purified Myrosinase from *Lepidium sativum* Seedlings. *Z. Naturforsch.* 45c: 173-178.
5. Snyder, J.M., Rodgers, H.F., O'Brien, J.A., Mahli, N., Magliato, S.A. and **Durham, P.L.** (1992) Glucocorticoid Effects on Rabbit Fetal Lung Maturation in vivo: An Ultrastructural Morphometric Study. *Anat. Rec.* 232: 133-140.
6. **Durham, P.L.**, Davis-Nanthakumar, E.K. and Snyder, J.M. (1992) Developmental Regulation of Surfactant-associated Proteins in Rabbit Fetal Lung in vitro. *Exp. Lung Res.* 18: 775-793.
7. Wohlford-Lenane, C.L., **Durham, P.L.** and Snyder, J.M. (1992) Localization of Surfactant-associated Protein C (SP-C) in Fetal Rabbit Tissue by in situ Hybridization. *Am. J. Respir. Cell Mol. Biol.* 6: 225-234.
8. **Durham, P.L.**, Wohlford-Lenane, C.L. and Snyder, J.M. (1993) Glucocorticoid Regulation of Surfactant-Associated Proteins in Rabbit Fetal Lung in vivo. *Anat. Rec.* 237: 365-377.
9. **Durham, P.L.** and Snyder, J.M. (1995) Characterization of  $\alpha$ 1,  $\beta$ 1, and  $\gamma$ 1 Laminin Subunits during Rabbit Fetal Lung Development. *Dev. Dynamics* 203: 408-421.
10. **Durham, P.L.** and Snyder, J.M. (1996) Regulation of Laminin  $\beta$ 2 Subunit Chain during Rabbit Fetal Lung Development. *Differentiation* 60: 229-243.
11. Russo, A.F., Clark, M.S., and **Durham, P.L.** (1996) Thyroid Parafollicular Cells: An Accessible Model for the Study of Serotonergic Neurons. *Mol. Neurobiol.* 13: 257-276.
12. **Durham, P.L.**, Sharma, R.V., and Russo, A.F. (1997) Repression of the Calcitonin Gene-Related Peptide Promoter by 5HT<sub>1</sub> Receptor Activation. *J. Neurosci.* 17: 9545-9553.
13. **Durham, P.L.** and Russo, A.F. (1998) Serotonergic Repression of Mitogen-Activated Protein Kinase Control of the Calcitonin Gene-Related Peptide Enhancer. *Mol. Endocrinol.* 12:1002-1009.
14. **Durham, P.L.** and Russo, A.F. (1999) Regulation of Calcitonin Gene-Related Peptide Secretion by a Serotonergic Antimigraine Drug. *J. Neurosci.* 19: 3423-3429.
15. **Durham, P.L.** and Russo, A.F. (2000) Differential Regulation of Mitogen-Activated Protein Kinase-Responsive Genes by the Duration of a Calcium Signal. *Mol. Endocrinology.* 14: 1570-1582.
16. **Durham, P.L.** and Russo, A.F. (2002) New Insights into the Molecular Actions of Serotonergic anti-migraine Drugs. *Pharmacology & Therapeutics*, 94:77-92.

17. Mora, S., **Durham, P.L.**, Smith, J.R., Russo, A.F., Jeromin, A., and Pessin, J.E. (2002) NCS-1 Inhibits Insulin-stimulated GLUT4 Translocation in 3T3L1 Adipocytes through a Phosphatidylinositol 4-kinase-dependent Pathway. *J. Biol. Chem.* 277:27494-27500.
18. **Durham, P.L.** and Russo, A.F. (2003) Stimulation of the Calcitonin Gene-Related Peptide Enhancer by Mitogen-Activated Protein Kinases and Repression by an Antimigraine Drug in Trigeminal Ganglia Neurons. *J. Neuroscience*, 23:807-815.
19. **Durham, P.L.**, Cady, R., and Cady, R. (2004) Regulation of Calcitonin Gene-Related Peptide Secretion from Trigeminal Nerve Cells by Botulinum Toxin Type A: Implications for Migraine Therapy. *Headache*, 44:35-43.
20. **Durham, P.L.**, Dong, P.X., Belasco, K.T., Kasperski, J., Gierasch, W.W., Edvinsson, L., Heistad, D., Faraci, F.M., and Russo, A.F. (2004) Neuronal expression and regulation of CGRP promoter activity following viral gene transfer into cultured trigeminal ganglia neurons. *Brain Research*, 997:103-110.
21. **Durham, P.L.** (2004) CGRP Receptor Antagonists – A Fresh Approach to Migraine Therapy? *New Engl. J. Med.*, 350:1073-1075.
22. Eddings, D., Barnes, C., Gerasimchuk, N., **Durham, P.**, Domasevich, K. (2004) First Bivalent Palladium and Platinum Cyanoximates: Synthesis, Characterization and Biological Activity. *Inorganic Chemistry*, 43:3894-3909.
23. **Durham P.L.** (2004) CGRP receptor antagonists: A new choice for acute treatment of migraine. *IDrugs?* *Curr Opin Invest Drugs.* 5:731-735.
24. Cady, R.C., Dodick, D.W., Levine, H.L., Schreiber, C.P., Eross, E.J., Setzen, M., Blumenthal, H.J., Lumry, W.R., Berman, G.D., and **Durham, P.L.** (2005) Sinus headache: a neurology and otolaryngology consensus on diagnosis and treatment. *Mayo Clinic Proceedings.* 80:908-916.
25. Bellamy, J., Cady, R. and **Durham, P.L.** (2006) Salivary Levels of CGRP and VIP in Rhinosinusitis and Migraine Patients, *Headache.* 46:24-33.
26. Bowen, E., Schmidt, T., W., Firm, C.S., Russo, A.R., and **Durham, P.L.** (2006) Tumor Necrosis Factor-  $\alpha$  Stimulation of Calcitonin Gene-Related Peptide Expression and Secretion from Rat Trigeminal Ganglion Neurons, *J Neurochem.* 96:65-77.
27. Levine, HL., Setzen, M., Cady, R.K., Dodick, D.W., Schreiber, C.P., Eross, E.J., Blumenthal, H.J., Lumry, W.R., Berman, G.D., and **Durham, P.L.** (2006) An Otolaryngology, Neurology, Allergy, and Primary Care Consensus on Diagnosis and Treatment of Sinus Headache. *Otolaryngol Head Neck Surg.* 134:516-523.
28. Bellamy, J., Bowen, E., Russo, A.F., **Durham, P.L.** (2006) Nitric Oxide Regulation of Calcitonin Gene-Related Peptide Gene Expression in Rat Trigeminal Ganglia Neurons, *Eur J Neurosci.* 23:2057-2066.
29. **Durham, P.L.** (2006) Calcitonin Gene-Related Peptide (CGRP) and Migraine, *Headache.* 46(Suppl 1):S1-S6.
30. **Durham, P.L.** Niemann, C., Cady, R.K. (2006) Repression of Stimulated Calcitonin Gene-Related Peptide Secretion by Topiramate. *Headache*, 46:1291-1295.

31. Thalakoti, S., Patil, V.V., Damodaram, S., Vause, C.V., Langford, L.E., Freeman, S.E., **Durham, P.L.** (2007) Neuron-Glia Signaling in Trigeminal Ganglion: Implications for Migraine Pathology, *Headache*, 47:1008-1023.
32. Vause, C.V., Bowen, E.J., Spierings, E.L.H., and **Durham, P.L.** (2007) Effect of Carbon Dioxide on Calcitonin Gene-Related Peptide Secretion from Trigeminal Ganglia Neurons. *Headache*, 47:1385-1397.
33. Gerasimchuk, N., Maher, T., **Durham, P.**, Domasevitch, K.V., Wilking, J., Mokhir, A. (2007) Tin (IV) Cyanoximates: Synthesis, Characterization and Cytotoxicity. *Inorg Chem*, 46:7268-7284.
34. Abbey, M.J., Patil, V.V., Vause, C.V., **Durham, P.L.** (2008) Repression of Calcitonin Gene-Related Peptide Expression by a *Theobroma cacao* Extract, *J Ethnopharmacol*, 115:238-248.
35. Li, J., Vause, C.V., **Durham, P.L.** (2008) Stimulation of iNOS Expression in Trigeminal Ganglia Satellite Glia Cells by Calcitonin Gene-Related Peptide, *Br Res*, 1196:22-32.
36. Gerasimchuk, N., Goeden, L., **Durham, P.**, Barnes, C., Cannon, J.F., Silchenko, S., Hidalgo, I. (2008) Synthesis and Characterization of Disubstituted Arylcyanoximes and Their Several Metal Complexes. *Inorganica Chimica Acta*, 361:1983–2001.
37. **Durham, P.** (2008) Inhibition of Calcitonin Gene-Related Peptide Function: A Promising Strategy for Treating Migraine. *Headache*, 48:1269-1275.
38. Freeman, S.E., Patil, V.V., **Durham, P.L.** (2008) Stimulation of Trigeminal Neurons by Nitric Oxide Causes Increased MAP Kinase Expression in Neurons and Satellite Glial Cells in Trigeminal Ganglia, *Neuroscience*, 157:542-555.
39. Damodaram, S., Thalakoti, S., Freeman, S.E., Garrett, F.G., **Durham, P.L.** (2009) Tonabersat Inhibits Trigeminal Ganglion Neuronal-Satellite Glial Cell Signaling. *Headache*, 49:5-20.
40. **Durham, P.L.**, Garrett, F.G. (2009) Neurological mechanisms of migraine: potential of the gap-junction modulator tonabersat in prevention of migraine. *Cephalalgia*, Suppl 2:1-6.
41. Vause, C.V., **Durham, P.L.** (2009) CGRP Stimulation of iNOS and NO Release from Trigeminal Ganglion Glial Cells Involves MAP Kinase Pathways, *J Neurochem*, 110:811-821.
42. Cady, R.K., Vause, C. V., Ho, T.W., Bigal, M.E., **Durham, P.L.** (2009) Elevated Saliva Calcitonin Gene-Related Peptide (CGRP) Levels During Acute Migraine Predicts Therapeutic Response to Rizatriptan, *Headache*. 49:1258-66.
43. Garrett, F.G., **Durham, P.L.** (2009) Differential Expression of Connexins in Trigeminal Ganglion Neurons and Satellite Glial Cells in Response to Acute or Chronic Joint Inflammation, *Neuron Glia Biol* 13:1-12.
44. Cady, R. J., **Durham, P.L.** (2010) Cocoa Enriched Diets Enhance Expression of Phosphatases and Decrease Expression of Inflammatory Molecules in Trigeminal Ganglion Neurons, *Brain Res*. 2010 Apr 6;1323:18-32. Epub 2010 Feb 6.
45. **Durham, P.L.**, Garrett, F.G. (2010) Emerging Importance of Neuron-Satellite Glia Interactions within Trigeminal Ganglia in Craniofacial Pain, *The Open Pain Journal* 11:3-13 doi: 10.2174/1876386301003020003

46. **Durham, P.L.**, Vause, C. V. (2010) CGRP Antagonists in the Treatment of Migraine, *CNS Drugs*. Jul 1;24(7):539-48. doi: 10.2165/11534920-000000000-00000
47. Masterson, C.G., **Durham P.L.** (2010) DHE Repression of ATP-Mediated Sensitization of Trigeminal Ganglion Neurons, *Headache*. 2010 Oct;50(9):1424-39. doi: 10.1111/j.1526-4610.2010.01714.x.
48. **Durham, P.L.**, Vause, C.V., Derosier, F., McDonald, S., Cady, R., Martin, V. (2010) Changes in Salivary Prostaglandin Levels During Menstrual Migraine With Associated Dysmenorrhea. *Headache*. 2010 May;50(5):844-51. Epub 2010 Mar 26.
49. Vause, C.V., **Durham, P.L.** (2010) Calcitonin Gene-Related Peptide Differentially Regulates Gene and Protein Expression in Trigeminal Neurons and Glia Cells: Findings from Array Analysis, *Neurosci Lett*. 2010 Apr 12;473(3):163-7. Epub 2010 Feb 4.
50. **Durham, P.L.**, Garrett, F.G. (2010) Development of Functional Units within Trigeminal Ganglia Correlates with Increased Expression of Proteins Involved in Neuron-Glia Interactions, *Neuron Glia Biol*. 2010 Dec 16:1-11. [Epub ahead of print].
51. Cady, R.J., Hirst, J.J., **Durham, P.L.** (2010) Dietary Grape Seed Polyphenols Repress Neuron and Glia Activation in Trigeminal Ganglion and Trigeminal Nucleus Caudalis, *Mol Pain*. Dec 10;6:91.
52. Strider, J.W., Masterson, C.G., **Durham, P.L.** (2011) Treatment of Mast Cells with Carbon Dioxide Suppresses Degranulation via a Novel Mechanism Involving Repression of Increased Intracellular Calcium Levels, *Allergy*. Mar;66(3):341-50. Epub 2010 Sep 7.
53. **Durham, P.L.** and Cady, R. (2011) Insights into the Mechanism of OnabotulinumtoxinA in Chronic Migraine, *Headache*. 51(10):1573-7. doi: 10.1111/j.1526-4610.2011.02022.x.
54. Cady, R.J., Glenn, J.R., Smith K.M., **Durham, P.L.** (2011) Calcitonin gene-related peptide promotes cellular changes in trigeminal neurons and glia implicated in peripheral and central sensitization. *Mol Pain*. Dec 6; 7:94.
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