

Curriculum Vitae
Melissa A. Farmer, Ph.D.

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Northwestern University
Feinberg School of Medicine
Department of Physiology
Tarry 7-707
303 East Chicago Avenue
Chicago, IL 60611

Office: (312) 503-2562
Cell: (312) 919-2325
Fax: (312) 503-5101
Email: melissa-farmer@northwestern.edu
Skype: melissa.a.farmer

PERSONAL INFORMATION

Born: Austin, Texas, USA
Citizenship: American
Languages: English, French

EDUCATION

2004 – 2011 Ph.D. in Clinical Psychology, McGill University, Montréal, Québec, Canada
1999 – 2004 B.A. in Plan II & Psychology Honors, University of Texas at Austin, Texas

EMPLOYMENT

2015 – Present Research Assistant Professor, Department of Physiology, Northwestern Feinberg School of Medicine, Chicago, IL
2013 – 2015 Research Associate, Department of Physiology, Northwestern Feinberg School of Medicine, Chicago, IL
2011 – 2013 Postdoctoral Fellow, Department of Physiology, Northwestern Feinberg School of Medicine, Chicago, IL

PROFESSIONAL MEMBERSHIPS

2001 – present Member, American Psychological Association
2004 – present Member, International Academy of Sex Research
2008 – present Member, International Association for the Study of Pain
2004 – present Board Member and Co-Chair of Scientific Programming, International Society for the Study of Women's Sexual Health
2004 – present Member, Canadian Psychological Association
2004 – 2011 Member, McGill Centre for Research on Pain
2006 – 2011 Member, Québec Network of Junior Pain Investigators
2008 – present Member, Society for Neuroscience
2011 – present Member and Research Committee, International Pelvic Pain Society
2015 – present Full Member, International Society of Sexual Medicine
2015 – present Basic Science Committee Member, Sexual Medicine Society of North America

EDITORIAL BOARD

2009 – present Archives of Sexual Behavior

AD HOC REVIEWER

British Medical Journal
Journal of Pain
Journal of Rheumatology
Journal of Sexual Medicine
Journal of Sex and Marital Therapy
Pain
PLOS ONE
Sex and Relationship Therapy

AWARDS, HONORS, & DISTINCTIONS

2010 New Investigator Award for Basic Science, International Society for the Study of Women's Sexual Health

2010 Travel Award, Institute of Gender and Health, Canadian Institutes of Health Research

2008, 2009, 2010 Trainee Travel Awards, Réseau Québécois de Recherche sur la Douleur

2006 – 2009 Pre-doctoral Merit Scholarship Program for Foreign Students
Le Fonds Québécois de la Recherche sur la Nature et les Technologies

2006, 2007, 2009 Alma Mater Travel Grant, McGill University, Montréal, QC

2004 – 2006 Tomlinson Masters of Science Fellowship, McGill Univ., Montréal, QC

2004 – 2006 McGill Graduate Studies Fellowship, McGill Univ., Montréal, QC

2002 – 2004 Undergraduate Research Fellowship, University of Texas at Austin

2002 Hibbs Scholarship, Department of Psychology, University of Texas at Austin

2001 – 2003 Dean's Honor List (Cum Laude 2001 – 2002, Magna Cum Laude 2003)

2000 – 2003 University of Texas Collegiate Scholar, University of Texas at Austin

1999 – 2003 Terry Foundation Scholarship, University of Texas at Austin

1999 – 2003 Robert C. Byrd Scholarship, University of Texas at Austin

1999 Temple-Inland Scholarship

1999 Valedictorian of High School class

RESEARCH GRANTS

- 2008 – 2019 2U01 Co-Investigator, NIH/NIDDK U01DK082342
Multidisciplinary Approach to the Study of Chronic Pelvic Pain (MAPP)
- 2014 – 2016 Principal Investigator, National Vulvodynia Association
Longitudinal assessment of subacute vulvodynia
- 2013 – 2015 L30 Principal Investigator, NIH/NICHD L30HD077854
Biomarkers of Pelvic Pain Comorbidity
- 2011 – 2013 Co-Investigator, National Vulvodynia Association (Binik, PI)
Central representation of sensory and subjective perception of pain in vulvodynia
- 2008 – 2011 F31 Principal Investigator, NIH/NINDS F31NS062611
National Service Research Award (NRSA)
Mouse model of vestibulodynia using recurrent vulvovaginal candidiasis
- 2007 – 2009 Co-Investigator, National Vulvodynia Association (Binik, PI)
Mouse model of vulvar vestibulitis syndrome using recurrent vulvovaginal candidiasis.
- 2007 – 2009 Principal Investigator, G.W. Stairs Memorial Fund
McGill University, Montréal, QC

RESEARCH AREAS OF INTEREST

Neuroplasticity of chronic pain; multi-method assessment of sensory distortion in chronic pain; multi-modal neuroimaging in urological and visceral pain populations; reward valuation and decision making; sex differences in pain perception; clinical relevance of patient reported outcomes; clinically-guided development of animal pain models; human sexuality and sexual dysfunction; philosophy of science; the interface of clinical and basic science research.

PEER-REVIEWED PUBLICATIONS

23. Huang L, Kutch JJ, Ellingson BM, Martucci KT, Harris RE, Clauw DJ, Mackey S, Mayer EA, Schaeffer AJ, Apkarian AV, & **Farmer MA**. Brain white matter changes associated with urological chronic pelvic pain syndrome: Multi-site neuroimaging from a MAPP case-control study. Forthcoming in *Pain*.
22. Alger JR, Ellingson BM, Ashe-McNalley C, Woodworth DC, **Farmer MA**, Glover G, Bammer R, Parrish T, den Hollander J, Chenevert T, Apkarian AV, Meyer EA, and the MAPP Investigators. (2016). Multisite, multimodal neuroimaging of chronic urological pelvic pain: Methodology of the MAPP research network. *NeuroImage: Clinical*, doi: 10.1016/j.nicl.2015.12.009

21. Vachon-Preseu E, Centeno MV, Ren W, Berger SE, Tetrault P, Ghantous M, Baria A, **Farmer MA**, Baliki M, Schnitzer TJ, & Apkarian AV. (2016). The emotional brain as a predictor and amplifier of chronic pain. *J Dental Res*, doi: 10.1177/0022034516638027
20. Woodworth D, Mayer E, Leu K, Ashe-McNalley C, Naliboff BD, Labus JS, Tillisch K, Kutch JJ, **Farmer MA**, Apkarian AV, Johnson KA, Mackey SC, Ness TJ, Landis JR, Deutsch G, Harris RE, Clauw DJ, Mullins C, Ellingson BM, & MAPP Research Network. (2015). Unique microstructural changes in the brain associated with urological chronic pelvic pain syndrome (UCPPS) revealed by diffusion tensor MRI, super-resolution track density imaging, and statistical parameter mapping: A MAPP Network neuroimaging study. *PLOS ONE*, 10(10):e0140250. PMID: 26460744
19. **Farmer MA**, Huang L, Martucci KT, Labus J, Harris RE, Clauw DJ, Deutsch G, Ness TJ, Yang CC, Maravilla KR, Mackey SC, Ellingson B, Mayer EA, Schaeffer AJ & Apkarian AV. Brain white matter abnormalities in female interstitial cystitis/bladder pain syndrome: A MAPP Network neuroimaging study. *J Urol*, 194(1):118-26. PMID: 25711200
18. Martucci, KT, Shirer WR, Bagarinao E, Johnson KA, **Farmer MA**, Labus JS, Apkarian AV, Deutsch G, Harris RE, Mayer EA, Clauw DJ, Greicius MD, Mackey S. (2015). The posterior medial cortex in urologic chronic pelvic pain syndrome: Detachment from default mode network: A resting-state study from the MAPP Research Network. *Pain*, 156(9):1755-64. PMID: PMC4545714
17. Kutch JJ, Yani MS, Asavasopon S, Kirages DJ, Rana M, Cosand L, Labus JS, Kilpatrick LA, Ashe-McNalley C, **Farmer MA**, Johnson KA, Ness TJ, Deutsch G, Harris RE, Apkarian AV, Clauw DJ, Mackey SC, Mullins C, Mayer EA. (2015). Altered resting state neuromotor connectivity in men with chronic prostatitis/chronic pelvic pain syndrome: A MAPP Research network neuroimaging study. *Neuroimage Clin*, 8:493-502. PMID: PMC4474411
16. Kairys AE, Schmidt-Wilcke T, Puiu T, Ischesco E, Labus JS, Martucci K, **Farmer MA**, Ness TJ, Deutsch G, Mayer EA, Mackey S, Apkarian AV, Maravilla K, Clauw DJ, Harris RE. (2015). Increased brain gray matter in the primary somatosensory cortex is associated with increased pain and mood disturbance in interstitial cystitis/painful bladder syndrome patients. *J Urol*, 193(1): 131-7. PMID: PMC4435781
15. Martucci K, Bagarinao E, Johnson K, Ichescio E, **Farmer MA**, Labus J, Ness T, Harris R, Deutsch G, Apkarian A, Mayer E, Clauw D, Mackey S. (2014). Regional gray matter density differences predict classification of chronic pelvic pain and fibromyalgia: Findings from the MAPP Research Network. *J Pain*, 15(4):S55.
14. Bagarinao E, Johnson KA, Martucci KT, Ischesco E, **Farmer MA**, Labus J, Ness TJ, Harris R, Deutsch G, Apkarian AV, Mayer EA, Clauw DJ, Mackey S. (2014). Preliminary structural MRI based brain classification of chronic pelvic pain: A MAPP Network study. *Pain*, 155(12):2502-9. PMID: PMC4504202

13. Kilpatrick LA, Kutch JJ, Tillisch K, Naliboff B, Labus J, Jiang Z, **Farmer MA**, Apkarian AV, Mackey S, Martucci KT, Clauw DJ, Harris RE, Deutsch G, Ness TJ, Yang CC, Maravilla K, Mullins C, & Mayer EA. (2014). Alterations in resting state oscillations and connectivity in sensory and motor networks in women with interstitial cystitis/painful bladder syndrome. *J Urol*, 192(3):947-55. PMCID: PMC4432915
12. **Farmer MA**, Leja A, Foxen-Craft E, Chan L, MacIntyre LC, Niaki T, Chen M, Mapplebeck JCS, Tabry V, Topham L, Sukosd M, Binik YM, Pfaus JG, & Mogil JM. (2014). Pain reduces sexual motivation in female but not male mice. *J Neurosci*, 34(17):5747-5753. PMCID: PMC3996207
11. Mansour AR, **Farmer MA**, Baliki MN, & Apkarian AV. (2014). Chronic pain: The role of learning and brain plasticity. *Restor Neurol and Neurosci*, 32(1):129-39. PMID: 23603439
10. **Farmer MA**, Maykut CA, Huberman JS, Huang L, Khalife S, Binik YM, Apkarian AV, & Schweinhardt, P. (2013). Psychophysical properties of female genital sensation. *Pain*, 154(11):2277-86. **Post-publication peer reviewed by Faculty of 1000.** PMID: 23707679
9. Apkarian AV, Baliki MN, & **Farmer MA**. (2013). Predicting transition to chronic pain. *Curr Opin Neurol*, 26(4), 360-7. PMID: 23823463
8. **Farmer MA**, Baliki MN, & Apkarian AV. (2012). A dynamic network perspective of chronic pain. *Neurosci Lett*, 520(2):197-203. PMCID: PMC3377811
7. **Farmer MA**, Taylor AM, Bailey AL, MacIntyre LC, Milagrosa ZE, Crissman H, Tuttle A, Bennett GJ, Ribeiro-da-Silva A, Binik YM, & Mogil JS. (2011). Repeated vulvovaginal fungal infections cause persistent pain in a mouse model of vulvodynia. *Sci Transl Med*, 3(101):101ra91. **Post-publication peer reviewed by Faculty of 1000.** PMCID: PMC3243907
6. **Farmer MA**, Chanda ML, Parks EL, Baliki MN, Apkarian AV, Schaeffer AJ. (2011). Brain functional and anatomical changes related to chronic prostatitis pain. *J Urol*, 186(1):117-124. **Post-publication peer reviewed by Faculty of 1000.** PMID: 21571326
5. Ahrold TK, **Farmer MA**, Trapnell PD, & Meston CM. (2011). The relationship among sexual attitudes, sexual fantasy, and religiosity. *Arch Sex Behav*, 40(3):619-630. PMID: 20364304
4. **Farmer MA**, Trapnell PD, & Meston CM. (2009). The relation between sexual behavior and religiosity subtypes. *Arch Sex Behav*, 38(5):852-865. PMID: 18839301
3. **Farmer MA** & Meston CM. (2007). Predictors of genital pain in young women. *Arch Sex Behav*, 36(6):831-843. PMCID: PMC2857760
2. **Farmer MA** & Meston CM. (2006). Predictors of condom use self-efficacy in an ethnically diverse university sample. *Arch Sex Behav*, 35(3):313-326. PMCID: PMC2859307 **Post-publication peer reviewed by Faculty of 1000 as "Recommended".**
1. **Farmer MA** & Binik YM. (2005). Psychology is from Mars, Sexology is from Venus: Can they meet on Earth? *Canadian Psychol*, 46:46-51.

MANUSCRIPTS IN PRESS

Farmer MA, Yoon H, & Goldstein I. Future targets for female sexual dysfunction. (*Journal of Sexual Medicine*)

MANUSCRIPTS SUBMITTED

Farmer MA, Baria AT, Maykut CA, Huang L, Khalife S, Binik YM, Schweinhardt, P, & Apkarian AV. Brain network connectivity differentiates vulvar touch versus pain perception. (Submitted, *Pain*)

Martucci KT, Bagarinao E, Johnson KA, Ichesco E, **Farmer MA**, Labus JS, Ness TJ, Harris RE, Deutsch G, Apkarian AV, Mayer EA, Clauw DJ, Mackey SC. Structural MRI Based Brain Classification of Urologic Chronic Pelvic Pain Syndrome and Fibromyalgia: A MAPP Research Network Study. (Submitted, *Pain*)

Farmer MA. Learning mechanisms underlying brain reorganization with pelvic pain.
(Invited review submitted to *Sexual Medicine Reviews*)

Farmer MA. Brain reorganization with abdomino-pelvic pain.
(Invited review submitted to *Sexual Medicine Reviews*)

MANUSCRIPTS IN PREPARATION

Maykut CA, Huang L, Apkarian AV, Schweinhardt P, **Farmer MA**. Impact of oral contraceptive use on central representation of vulvovaginal sensation. (To be submitted to *Journal of Sexual Medicine*)

Farmer MA, Huang L, Harris RE, Deutsch G, Labus J, Martucci KT, Maravilla K, Mackey S, Clauw DJ, Mayer EA, & Apkarian AV. Cluster-based clinical phenotyping of urological chronic pelvic pain syndrome: A MAPP neuroimaging study. (To be submitted to *Human Brain Mapping*)

Kutch JJ, Ichesco E, Hampson J, **Farmer MA**, Martucci KT, Ness TJ, Deutsch G, Apkarian AV, Mackey SC, Mullins C, Landis JR, Clemens JQ, Mayer EA, Clauw DJ, Harris RE. Functional impact and neurologic signature of centralized pain. (To be submitted, *New England Journal of Medicine*).

Huang L, Maykut CA, , Khalife S, Binik YM, Apkarian AV, & **Farmer MA**. Limbic reorganization in women with provoked vestibulodynia. (To be submitted to *Neuroimage: Clinical*).

Huang L, Maykut CA, Binik YM, Baliki MN, Apkarian AV, & **Farmer MA**. Central representation of female genital visceral pain perception. (To be submitted to *Pain*).

INVITED COMMENTARY

Farmer, MA. (2015). What is special about the vulvar vestibule? *Pain*, 156(3):359-60.

PMCID: PMC4335348

BOOK CHAPTERS

- 10 **Farmer, MA.** (In Preparation). Neuroscience of vulvar pain perception. In S Van Reisyk, *Phenomenology of Pain*. Springer.
- 9 **Farmer, MA.** (2015). In search of pelvic pain. In AV Apkarian (Ed.), *The brain adapting with pain: Contribution of neuroimaging technology to pain mechanisms*. Seattle, USA: IASP Press, pp. 321-30.
- 8 **Farmer, MA,** Davis SN, & Binik YM. (2015). Sexual pain disorders. In KR Wylie (Ed.), *ABC of Sexual Health*, 3rd ed. Wiley-Blackwell.
- 7 **Farmer, MA.** (2014). Neuromodulation of chronic abdomino-pelvic pain. In B Messelink, A Baranowski, & J Hughes (Eds.), *Abdomino-pelvic pain: From definition to best practice*. Seattle, USA: IASP Press, pp. 247-255.
- 6 **Farmer, MA.** (2014). Sex research methods. In C Pukall (Ed.), *Human sexuality: A contemporary introduction*. Oxford University Press.
- 5 Wesselmann U & **Farmer MA.** (2013). Vulvodynia. In RF Schmidt & GF Gebhart (Eds.), *The Encyclopedia of Pain* (pp. 4245-4248). Springer Berlin Heidelberg.
- 4 Rellini AH, **Farmer MA,** & Golden GH. (2011). Hypoactive sexual desire disorder. In J. Mulhall, L. Incrocci, I. Goldstein, & R. Rosen (Eds.), *Cancer and sexual health*. Boston: Humana Press, pp. 105-123.
- 3 **Farmer MA,** Kao A, & Binik YM. (2009). Management of dyspareunia and vaginismus. In R Balon & T Segreaves (Eds.), *Clinical manual of sexual disorders*. Washington, D.C.: American Psychiatric Publishing, pp. 305–334.
- 2 **Farmer MA,** Binik YM, & Mogil JS. (2009). Animal models of dyspareunia. In AT Goldstein, CF Pukall & I Goldstein (Eds.), *Female sexual pain disorders: Evaluation and management*. Wiley-Blackwell: Oxford, UK, pp. 199-207.
- 1 **Farmer MA,** Kukkonen T, & Binik YM. (2008). Female genital pain disorders. In DL Rowland & L Incrocci (Eds.), *Handbook of sexual and gender identity disorders*. John Wiley and Sons, Inc: Hoboken, New Jersey, pp. 220-250.

INVITED TALKS

Upcoming

31. ***Sex differences in visceral nociception and perception.*** Invited plenary lecture to be presented at the International Pelvic Pain Society (IPPS) meeting in Washington, D.C. (October, 2017).
30. ***Birth and death of the pain engram.*** Invited podium to be presented at the San Diego Pain Summit in San Diego, CA (February, 2017).
29. ***A heretic's guide to neural substrates of sexual dysfunction.*** Invited podium to be presented at the Sexual Medicine Society of North America meeting in Scottsdale, AR (November, 2016)
28. ***Turn On, Tune In: Merging Mind and Body in Female Sexual Dysfunction.*** Invited podium to be presented at the Sexual Medicine Society of North America meeting in Scottsdale, AR (November, 2016)
27. ***Deciphering chronic genital pain.*** Invited podium to be presented at the American Urological Association (AUA) annual meeting (sponsored by the Sexual Medicine Society of North America) in San Diego, CA (May, 2016).
26. ***Visceral pain: Molecular mechanisms and beyond.*** Invited podium presented at the Society for Reproductive Investigation annual meeting in Montréal, Québec (March, 2016).

2015 Talks

25. ***The (mal)adapting brain: Temporal dynamics of chronic bladder pain.*** Invited talk presented at the International Continence Society meeting in Montréal, Québec (October, 2015).
24. ***Neuroscience of libido.*** Invited talk at Contraceptive conundrum: A bioethics symposium, held at Georgetown University, Washington, D.C. (August, 2015).
23. ***Pelvic pain: From perception to pathophysiology.*** Invited podium presented at 2nd World Congress on Pelvic Pain, Nice, France (June, 2015).
22. ***Yes, sex therapy can help your pelvic pain patient.*** Invited Grand Rounds at NorthShore Department of OB/GYN, Chicago, IL (April, 2015).
21. ***Brain global and local network properties differentiate naturalistic vulvovaginal distension from vulvar pressure: A fMRI study of women with provoked vestibulodynia.*** Invited podium presented at the International Society for the Study of Women's Sexual Health, Austin, Texas (February, 2015).

2014 and Prior

20. *Cortical mechanisms of nociception and pain: Forward and reverse translational analyses.* Invited Topical Workshop speaker at the 15th World Congress of Pain, Buenos Aires, Argentina (October, 2014).
19. *Unravelling the circuitry and neurophysiology of osteoarthritis pain.* Invited Topical Workshop speaker at the 15th World Congress of Pain, Buenos Aires, Argentina (October 2014).
18. *Neuromodulation of abdomino-pelvic pain.* Invited podium presented at the 1st World Congress on Pelvic Pain, Amsterdam, Netherlands (June, 2013).
17. *Somatic mechanisms of chronic pelvic pain.* Invited podium presented at the Pain of Urogenital Origin Symposium (Satellite Symposium of the 14th World Congress on Pain), Milano, Italy (August, 2012).
16. *Pelvic pain in the brain: Central and cognitive characteristics of men with Chronic Prostatitis/Chronic Pelvic Pain Syndrome (CP/CPPS).* Invited podium presented at the Society for Sex Therapy and Research, Chicago, Illinois (March, 2012).
15. *From mice to women: Urogenital models of pain following inflammation.* Invited podium presented at the 3rd annual Rehabilitation Institute of Chicago Women's Health Rehabilitation Symposium, Chicago, Illinois (May, 2011).
14. *Dyspareunia and so-called sexual pain.* Invited podium presented at the 13th World Congress on Pain, Montréal, Québec (August, 2010).
13. *Causes and consequences of urogenital pain following inflammation.* Invited talk presented at the Chronic Pain Rounds at the Massachusetts General Hospital, Boston, Massachusetts (July, 2010).
12. *Recurrent vulvovaginal Candida albicans infection causes persistent post-infection vulvar pain and altered vulvar innervation.* Podium presented at the annual meeting of the International Society for the Study of Women's Sexual Health, St. Petersburg, Florida (February, 2010).
Recipient of New Investigator Award for Basic Science.
11. *A potential etiology for provoked vestibulodynia: Repeated vulvovaginal Candida albicans infection causes persistent vulvar pain.* Invited podium presented at the annual meeting of the International Academy of Sex Research, San Juan, Puerto Rico (August, 2009).
10. *Behavioral and histological characterization of a mouse model of provoked vestibulodynia following recurrent vulvovaginal candidiasis.* Podium presented at the Canadian Sex Research Forum, Montréal, Québec (October, 2008).
Recipient of 2008 CSRF Best Student Presentation Award.
9. *So-called sexual pain.* Invited podium presented at the Pain of Urogenital Origin Symposium (Satellite Symposium of the 12th World Congress on Pain), Glasgow, Scotland (August, 2008).

8. *From mice to women: Impact of acute and inflammatory pain on sexual motivation and pain behavior in mouse models of genital pain.* Invited talk presented at the Montréal General Hospital Chronic Pain Centre, Montréal, Québec (June, 2008).
7. *Of mice and women: A mouse model of vestibulodynia following recurrent vulvovaginal candidiasis.* Podium presented at International Society for the Study of Women's Sexual Health, San Diego, California (February, 2008).
6. *Not tonight dear, I have a vulvache: Evidence for reduced sexual receptivity with vulvar and hindpaw zymosan using paced mating in the mouse.* Podium presented at International Society for the Study of Women's Sexual Health, San Diego, California (February, 2008).
5. *Mouse model of vulvar vestibulitis following a single Candida albicans infection.* Podium presented at International Society for the Study of Women's Sexual Health, Orlando, Florida (February, 2007).
4. *Reduced vulvar pain threshold in a mouse model of vulvar pain following vulvovaginal Candida albicans infection.* Podium presented at the McGill Center for Research on Pain-Astra Zenaca Scientific Meeting, Montréal, Canada (December, 2006).
3. *Psychosexual profiles of young adult women with a continuum of genital pain.* Podium at International Society for the Study of Women's Sexual Health, Lisboa, Portugal (March, 2006).
2. *Impact of religiosity on sexual function: Implications for sex therapy.* Podium presented at International Society for the Study of Women's Sexual Health, Las Vegas, Nevada (October, 2005).
1. *Predictors of condom use self-efficacy: An integration of past research.* Podium presented at International Society for the Study of Women's Sexual Health, Atlanta, Georgia (October, 2004).

CONFERENCE PRESENTATIONS

33. **Farmer MA**, Davis D, Arroyo C, Schnitzer TJ, Apkarian AV, Schaeffer AJ. (November, 2015). Impact of treatment success on variability of pelvic pain intensity in men with urologic chronic pelvic pain syndrome (UCPPS). Poster presented at Sexual Medicine Society of North America annual meeting, Las Vegas, NV.
32. **Farmer MA**, Arroyo C, Davis D, Schnitzer TJ, Schaeffer AJ, Apkarian AV. (October, 2015). Temporal variability of male pelvic pain intensity. Poster presented at the International Pelvic Pain Society annual meeting, San Diego, CA.
31. **Farmer MA**, Davis D, Arroyo C, Schnitzer TJ, Schaeffer AJ, Apkarian AV. (October, 2015). Fluctuations of pelvic pain intensity in men with urologic chronic pelvic pain syndrome (UCPPS) are modulated with successful treatment. Poster presented at Society for Neuroscience annual meeting, Chicago, IL.

30. **Farmer MA**, Huang L, Martucci K, Labus J, Clauw DJ, Harris RE, Mackey S, Mayer EA, Schaeffer J, Apkarian AV. (October, 2014). Brain white matter abnormalities in women with urological chronic pelvic pain syndrome: A MAPP neuroimaging study. Poster presented at the 15th World Congress of the International Association for the Study of Pain, Buenos Aires, Argentina.
29. **Farmer MA**, Baria AT, Huang L, Binik YM, Schweinhardt P, Apkarian AV. (November, 2013). Network- but not task-related activity differentiates vulvar touch versus pain. Poster presented at Society for Neuroscience annual meeting, San Diego, CA.
28. **Farmer MA**, Baria AT, Schweinhardt P, Apkarian AV. (June, 2013). The vulvosensation matrix. Poster presented at the Organization for Human Brain Mapping annual meeting, Seattle, WA.
27. **Farmer MA**, Maykut CA, Binik YM, & Schweinhardt P. (August, 2012). Dissociating nonpainful and painful vulvar mechanical pressure: An examination of psychophysical properties. Poster presented at the 14th World Congress of the International Association for the Study of Pain, Milano, Italy.
26. **Farmer MA**, Chanda ML, Parks EL, Baliki MN, Apkarian AV, & Schaeffer AJ. (November, 2011). Brain functional and anatomical changes in Chronic Prostatitis / Chronic Pelvic Pain Syndrome. Poster presented at Society for Neuroscience annual meeting, Washington, D.C.
25. **Farmer MA**, Leja A, Binik YM, Pfaus JG, & Mogil JS. (November, 2010). Female sexual motivation in the mouse is impaired by chronic pain. Poster presented at the Society for Neuroscience annual meeting, San Diego, California.
24. **Farmer MA**, Foxen-Craft E, Chan LJ, Becher J, Binik YM, Pfaus JG, & Mogil JS. (January, 2010). Acute versus chronic pain: Sex differences in decreased sexual behavior during genital and non-genital pain. Poster presented at McGill University's 2010 Pain Day, Montréal, Canada.
23. **Farmer MA**, Foxen-Craft E, Chan LJ, Becher J, Binik YM, Pfaus JG, & Mogil JS. (October, 2009). "Not tonight, dear": Sex differences in decreased sexual behavior during genital and non-genital pain. Poster presented at the Society for Neuroscience annual meeting, Chicago, Illinois.
22. **Farmer MA**, L. J. Chan, E. Foxen-Craft, J. Becher, Binik YM, Pfaus JG & Mogil JS (August, 2009). "*Not tonight, dear*": Sex differences in decreased sexual behavior during genital and non-genital pain. Poster presented at the International Academy of Sex Research (IASR) annual meeting, San Juan, Puerto Rico. **Recipient of 2009 IASR Student Poster Award.**
21. **Farmer MA**, E. Foxen-Craft, L. C. Chan, J. M. Becher, Binik YM, Pfaus JG & Mogil JS (June, 2009). *Sex differences in the impact of pain on sexual motivation in the mouse*. Poster presented at the Quebec Network of Junior Pain Investigators annual meeting, Montréal, Canada.
20. **Farmer MA**, Taylor AM, MacIntyre LC, Bennett GJ, Ribeiro-da-Silva A, Binik YM, & Mogil JS (January, 2009). *A mouse model of provoked vestibulodynia: Vulvar hypersensitivity and altered vulvar innervation following repeated vulvovaginal candidiasis*. Poster presented at McGill University's 2009 Pain Day, Montréal, Canada.

19. **Farmer MA**, Binik YM, MacIntyre LC, Bennett GJ, & Mogil JS (August, 2008). *Of mice and women: A mouse model of vestibulodynia following recurrent vulvovaginal candidiasis*. Poster presented at 12th World Congress of the International Association for the Study of Pain, Glasgow, Scotland.
18. **Farmer MA**, Binik YM, MacIntyre LC, Bennett GJ, & Mogil JS (June, 2008). *Histological characterization of hypersensitive vulvar tissue in a mouse model of vestibulodynia*. Poster presented at the Quebec Network of Junior Pain Investigators annual meeting, Sherbrooke, Québec.
17. **Farmer MA**, Binik YM, MacIntyre LC, & Mogil JS (March, 2008). *Development of an animal model of vestibulodynia following recurrent vulvovaginal candidiasis*. Poster presented at the Society for Sex Therapy and Research annual meeting, Chicago, Illinois.
Recipient of 2008 SSTAR Student Poster Award.
16. **Farmer MA**, Binik YM, MacIntyre LC, Pfaus JG, & Mogil JS (March, 2008). *Reduced sexual proceptivity and receptivity with vulvar pain using paced mating in the mouse*. Poster presented at Society for Sex Therapy and Research, Chicago, Illinois.
15. **Farmer MA**, Binik YM, MacIntyre LC, Bennett GJ, & Mogil JS (January, 2008). *A mouse model of vestibulodynia following recurrent vulvovaginal candidiasis*. Poster presented at McGill University's 2008 Pain Day, Montréal, Canada.
14. **Farmer MA**, Binik YM, MacIntyre LC, Pfaus JG, & Mogil JS (January, 2008). *Reduced sexual receptivity with vulvar and hindpaw zymosan-induced tonic pain*. Poster presented at McGill University's 2008 Pain Day, Montréal, Canada.
13. **Farmer MA**, Binik YM, Bennett GJ & Mogil JS (August, 2007). *Altered vulvar mechanical sensitivity in a mouse model of vulvar vestibulitis syndrome using *Candida albicans* infection*. Poster presented at International Academy of Sex Research annual meeting, Vancouver, Canada.
12. **Farmer MA**, Binik YM, & Mogil JS (January, 2007). *Vulvar mechanical sensitivity in a mouse model of vulvar vestibulitis syndrome*. Poster presented at McGill University's 2007 Pain Day, Montréal, Canada. **Recipient of McGill Pain Day Best Basic Science Poster Award.**
11. **Farmer MA & Meston CM** (October, 2005). *Genital pain as a continuum of sexual functioning*. Poster presented at International Society for the Study of Women's Sexual Health annual meeting, Las Vegas, Nevada.
10. **Farmer MA & Meston CM**. (July, 2005). *Condom use self-efficacy in a sexually active university sample*. Poster presented at International Academy of Sex Research annual meeting, Ottawa, Ontario.
9. **Farmer MA & Meston CM**. (July, 2005). *Religiosity and sexuality in monotheists and atheists*. Poster presented at International Academy of Sex Research annual meeting, Ottawa, Ontario.
8. McCall KM, Rellini AH, **Farmer MA**, Bradford A, Seal B, & Meston CM. (October, 2004). *Predictors of desire for sexual activity in women*. Poster presented at International Society for

the Study of Women's Sexual Health annual meeting, Atlanta, Georgia.

7. Seal B, Rellini AH, **Farmer MA**, McCall KM, & Meston CM. (October, 2004). *Effects of personality and religiosity on sexual satisfaction among oral contraceptive users*. Poster presented at International Society for the Study of Women's Sexual Health annual meeting, Atlanta, Georgia.
6. McCall KM, Rellini AH, **Farmer MA**, A. Bradford, B. Seal, & Meston CM. (July, 2004). *Factor analysis of predictors of sexual desire*. Poster presented at International Academy of Sex Research annual meeting, Helsinki, Finland.
5. B. Seal, Rellini AH, **Farmer MA**, McCall KM, & Meston CM. (July, 2004). *Sexual satisfaction among oral contraceptive users versus non-users*. Poster presented at International Academy of Sex Research annual meeting, Helsinki, Finland.
4. **Farmer MA**, Ferguson J, & Meston CM. (April, 2004). *Sexual predictors of condom use*. Poster presented at the Western Region Meeting of the Society for the Scientific Study of Sexuality, San Diego, California.
3. **Farmer MA**, Rellini AH, & Meston CM. (November, 2003). *The relationship between autonomic arousability and female sexual desire*. Poster presented at Society for the Scientific Study of Sexuality, San Antonio, Texas.
2. **Farmer MA**, Rellini AH, & Meston CM. (July, 2003). *Autonomic arousability and female sexual function*. Poster presented at International Academy of Sex Research, Bloomington, Indiana.
1. Rellini AH, Meston CM, Delville Y, **Farmer MA**, & Ferguson J. (October, 2002). *The relationship between cortisol and sexual arousal in women with a history of childhood sexual abuse*. Poster presented International Society for the Study of Women's Sexual Health annual meeting, Vancouver, Canada.

CLINICAL EXPERIENCE (>2700 clinical hours)

Theoretical Orientations: Cognitive-behavioral, Emotion-focused, Mindfulness/Existential

Clinical Research-Based Assessment

04/2011 – present Co-Investigator, clinical assessments for the Multidisciplinary Approach to the Study of Chronic Pelvic Pain (MAPP) Research Network, Northwestern University Discovery Site, Chicago, IL, USA.

09/2013 – present Project Leader for the clinical trial, “Brain imaging based strategies for treatment of urological chronic pelvic pain syndrome pain,” Northwestern University, Chicago, IL, USA.

Pre-doctoral Internships and Practicums

09/2009 – 08/2010 Clinical Internship at the Chronic Pain Centre at the Montréal General Hospital, Montréal, Canada. Supervised by Ann Gamsa, Ph.D.

Assessment and treatment of chronic pain cognitive behavioral therapy, mindfulness, and emotion-focused psychotherapies. Populations included chronic back pain, post-surgical chronic pain, chronic regional pain syndrome, phantom pain, postherpetic neuralgia, chronic visceral pain, and irritable bowel syndrome.

12/2006 – 08/2009 Post-practicum and Clinical Internship at the Sex and Couple Therapy Service at the Royal Victoria Hospital, Montréal, Canada. Supervised by Dennis Kalogeropoulos, Ph.D. and Gerry Wiviott, M.D.

Psychosexual assessment and treatment of female and male sexual dysfunction and couple therapy, including the following diagnoses: Dyspareunia, Vaginismus, Female Sexual Desire Disorder, Female Sexual Arousal Disorder, Female Orgasmic Disorder, Premature Ejaculation, and Erectile Dysfunction.

05/2005 – 08/2006 Practicum at the Chronic Pain Centre at the Montréal General Hospital, Montréal, Canada. Supervised by Ann Gamsa, Ph.D.

REFERENCES

Apkar Vania Apkarian

Professor
Northwestern University
Feinberg School of Medicine
310 E. Superior St.
Chicago, IL 60611
(312) 636-4456
a-apkarian@northwestern.edu

Jeffrey S. Mogil

Professor
McGill University Department
of Psychology 1205 Dr.
Penfield Avenue
Montréal, Québec
(514) 398-6085
jeffrey.mogil@mcgill.ca

Irv Binik

Professor
McGill University Department
of Psychology 1205 Dr.
Penfield Avenue Montréal,
Québec
(514) 398-6095
irv.binik@gmail.com