

CURRICULUM VITAE  
The Johns Hopkins University School of Medicine

Signature\_\_\_\_\_

Date: October 26, 2019

Name: Jennifer Lanier Payne, MD

**DEMOGRAPHIC AND PERSONAL INFORMATION**

**CURRENT APPOINTMENTS**

Johns Hopkins School of Medicine  
Associate Professor of Psychiatry and Behavioral Sciences  
Associate Professor of Gynecology and Obstetrics

Johns Hopkins Medicine  
Director, Adult Mood Disorder Clinical Trials Group, 2004-To Date  
Co-Director, Resident Outpatient Program, 2008-To Date  
Director, Women's Mood Disorders Center, 2009-To Date

**PERSONAL DATA**

Johns Hopkins School of Medicine  
Department of Psychiatry  
550 N. Broadway  
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Baltimore, MD 21205  
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**EDUCATION AND TRAINING**

1986-1990	B.S. in Biology	Davidson College
1992-1997	M.D.	Washington University
1994-1995	Fellowship	Howard Hughes Medical Institute at NIH
1997-1998	Internship	Johns Hopkins Bayview
1998-2000	Resident of Psychiatry	Johns Hopkins Hospital
2000-2001	Chief Resident	Johns Hopkins Hospital
2001-2003	Fellowship in Mood Disorders	National Institute of Mental Health

**PROFESSIONAL EXPERIENCE**

2003-2011	Assistant Professor of Psychiatry, Johns Hopkins School of Medicine
2004-2009	Co-Director, Women's Mood Disorders Center, Johns Hopkins School of Medicine
2004-present	Director, Adult Mood Disorder Clinical Trials Group, Johns Hopkins School of Medicine
2008-present	Co-Director, Resident Outpatient Program, Johns Hopkins School of Medicine
2009-present	Director, Women's Mood Disorders Center, Johns Hopkins School of Medicine
2011-present	Associate Professor of Psychiatry, Johns Hopkins School of Medicine
2017-present	Associate Professor of Gynecology and Obstetrics, Johns Hopkins School of Medicine

**PUBLICATIONS**

**ORIGINAL RESEARCH**

- 1) Etcheberrigaray R, **Payne JL**, Alkon D. Soluble  $\beta$ -amyloid induces Alzheimer's disease features in human fibroblasts and in neuronal tissues. *Life Sciences*. 1996; 59 (5/6): 491-498.
- 2) **Payne JL**, Lyketsos CG, Steele C, Baker L, Galik E, Kopunek S, Steinberg M, Warren A. Relationship of cognitive and functional impairment to depressive features in Alzheimer's disease and other dementias. *Journal of Neuropsychiatry*. 1998;10 (4): 440-446.
- 3) **Payne JL**, Sheppard JE, Steinberg M, Warren A, Baker A, Steele C, Brandt J, Lyketsos CG. Incidence, prevalence and outcomes of depression in residents of a long-term care facility. *International Journal of Geriatric Psychiatry*. 2001; 17(3): 247-253.
- 4) Zarate CA, **Payne JL**, Singh J, Quiroz J, Luckenbaugh D, Denicoff KK, Charney DS, Manji HK. Pramipexole for bipolar II depression: a placebo-controlled proof of concept study. *Biological Psychiatry*. 2004; 56(1): 54-60.
- 5) Zarate CA, **Payne JL**, Quiroz JA, Sporn J, Denicoff KK, Luckenbaugh D, Charney DS, Manji HK. An open-label trial of riluzole in patients with treatment-resistant major depression. *American Journal of Psychiatry*. 2004; 161: 171-174.
- 6) Murphy-Eberenz K, Zandi PP, March D, Crowe RR, Scheftner WA, Alexander M, McInnis MG, Coryell W, Adams P, DePaulo JR, Miller EB, Marta DH, Potash JB, **Payne J**, Levinson DF. Is perinatal depression familial? *Journal of Affective Disorders*. 2006; 90 (1): 49-55.
- 7) **Payne JL**, Roy PS, Murphy-Eberenz K, Weissman MM, Swartz KL, McInnis MG, Nwulia E, Mondimore FM, MacKinnon DF, Miller EB, Nurnberger JI, Levinson DF, DePaulo JR, Potash JB. Reproductive cycle-associated mood symptoms in women with major depression and bipolar I disorder. *Journal of Affective Disorders*. 2007; 99: 221-229.
- 8) **Payne JL**, MacKinnon DF, Mondimore FM, McInnis MG, Schweizer B, McMahon FJ, Nurnberger JI, Rice JP, Scheftner W, Coryell W, Berrettini WH, Kelsoe JR, Byerley W, Murphy DL, Gershon ES, DePaulo JR, Potash JB. Familial aggregation of postpartum mood symptoms in families with bipolar disorder. *Journal of Bipolar Disorders*. 2008; 10 (1): 38-44.
- 9) **Payne JL**, Klein SR, Zamoiski RB, Zandi PP, Bienvenu OJ, MacKinnon DF, Mondimore FM, Schweizer B, Swartz KL, NIMH Genetics Initiative Bipolar Disorder Consortium, Crowe RP, Scheftner WA, Weissman MM, Levinson DF, DePaulo JR, Potash JB. Premenstrual mood symptoms: study of familiarity and personality correlates in mood disorder pedigrees. *Archives of Women's Mental Health*. 2009; 12(1): 27-36.
- 10) Mahon PB, **Payne JL**, MacKinnon DF, Mondimore FM, Schweizer B, Jancic D, NIMH Genetics Initiative Bipolar Disorder Consortium, BiGS Consortium, Crowe RP, Coryell WH, Holmans PA, Knowles JA, Scheftner WA, Weissman MM, Levinson DF, DePaulo JR, Zandi PP, Potash JB. Genome-wide linkage and follow-up association study of postpartum mood symptoms. *American Journal of Psychiatry*. 2009; 166 (11): 1229-1237. \*Shared First authorship
- 11) **Payne JL**, Fields ES, Meuchel JM, Jaffe CJ, Jha M. Post adoption depression: a model for environmental influences of postpartum depression. *Archives of Women's Mental Health*. 2010; 13 (2): 147-151.
- 12) Guintivano J, Arad M, Gould TD, **Payne JL**, Kaminsky Z. Antenatal prediction of postpartum depression with blood DNA methylation biomarkers. *Molecular Psychiatry*. 2013; 19(5):560-7.
- 13) Guintivano J, Brown T, Newcomer A, Jones M, Cox O, Maher BS, Eaton WW, **Payne JL**, Wilcox HC, Kaminsky ZA. Identification and replication of a combined epigenetic and genetic biomarker predicting suicide and suicidal behaviors. *American Journal of Psychiatry*. 2014; 171(12):1287-96.

- 14) Kimmel M, Hess E, Roy PS, Palmer JT, Meltzer-Brody S, Meuchel JM, Bost-Baxter E, **Payne JL**. Family history, not lack of medication use, is associated with the development of postpartum depression in a high risk sample. *Archives of Women's Mental Health*. 2015; 18(1):113-21.
- 15) Mayo-Wilson E, Hutfless S, Li T, Gresham G, Fusco N, Ehmsen J, Heyward J, Vedula S, Lock D, Haythornthwaite J, **Payne JL**, Cowley T, Tolbert E, Rosman L, Twose C, Stuart EA, Hong H, Doshi P, Suarez-Cuervo C, Singh S, Dickersin K. Integrating multiple data sources (MUDS) for meta-analysis to improve patient-centered outcomes research: a protocol for a systematic review. *Systematic Review*. 2015; 2(4):143.
- 16) Osborne L, Clive M, Kimmel M, Gispén F, Guintivano J, Brown T, Cox O, Judy J, Meilman S, Braier A, Beckmann MW, Kornhuber J, Fasching PA, Goes F, **Payne JL**, Binder EB, Kaminsky Z. Replication of epigenetic postpartum depression biomarkers and variation with hormone levels. *Neuropsychopharmacology*. 2015; 41(6):1648-58.
- 17) Postpartum Depression: Action Towards Causes and Treatment (PACT) Consortium: Putnam KT, Robertson-Blackmore E, Sharkey KM, **Payne JL**, Bergink V, Munk-Olsen T, Deligiannidis KM, Altemus M, Newport DJ, Apter G, Devouche E, Viktorin A, Magnusson PK, Lichtenstein P, Penninx BW, Buist A, Bilszta J, O'Hara MW, Stuart S, Brock RL, Roza SJ, Tiemeier H, Guille C, Epperson CN, Kim DR, Schmidt PJ, Martinez P, Wisner KL, Stowe ZN, Jones I, Rubinow DR, Sullivan PF, Meltzer-Brody S. Heterogeneity of postpartum depression: a latent class analysis. *Lancet Psychiatry*. 2015; 2(1):59-67.
- 18) Kimmel M, Clive M, Gispén F, Guintivano J, Brown T, Cox O, Beckmann MW, Kornhuber J, Fasching PA, Osborne LM, Binder E, **Payne JL**, Kaminsky Z. Oxytocin receptor DNA methylation in postpartum depression. *Psychoneuroendocrinology*. 2016; 69: 150-60.
- 19) Clive ML, Boks MP, Vinkers CH, Osborne LM, **Payne JL**, Ressler KJ, Smith AK, Wilcox HC, Kaminsky Z. Discovery and replication of a peripheral tissue DNA methylation biosignature to augment a suicide prediction model. *Clinic Epigenetics*. 2016; 8: 113.
- 20) Kimmel MC, Platt RE, Steinberg DN, Cluxton-Keller F, Osborne LM, Carter T, **Payne JL**, Solomon BS. Integrating maternal mental health care in the pediatric medical home: treatment engagement and child outcomes. *Clin Pediatr*. 2016; epub Nov 20.
- 21) Postpartum Depression: Action Towards Causes and Treatment (PACT) Consortium: DiFlorio A, Putnam K, Altemus M, Apter G, Bergink V, Bilszta J, Brock R, Buist A, Deligiannidis KM, Devouche E, Epperson CN, Guille C, Kim D, Lichtenstein P, Magnusson PK, Martinez P, Munk-Olsen T, Newport J, **Payne J**, Penninx BW, O'Hara M, Robertson-Blackmore E, Roza SJ, Sharkey KM, Stuart S, Tiemeier H, Viktorin A, Schmidt PJ, Sullivan PF, Stowe, ZN, Wisner KL, Jones I, Rubinow DR, Meltzer-Brody S. The impact of education, country, race and ethnicity on the self-report of postpartum depression using the Edinburgh Postnatal Depression Scale. *Psychol Med*. 2016; 2(1):59-67.
- 22) Osborne LM, Gispén F, Sanyal A, Yenokyan G, Meilman S, **Payne JL**. Lower allopregnanolone during pregnancy predicts postpartum depression: An exploratory study. *Psychoneuroendocrinology*. 2017 May; 79:116-121.
- 23) Golden SH, Shah N, Naqubuddin M, **Payne JL**, Hill-Briggs F, Wand GS, Wang NY, Langan S, Lyketsos C. The prevalence and specificity of depression diagnosis in a clinic-based population of adults with type 2 diabetes mellitus. *Psychosomatics*. 2017 Jan - Feb; 58(1):28-37.

- 24) Shin N, Hill-Briggs F, Langan S, **Payne JL**, Lyketsois C, Golden SH. The association of minor and major depression with health problem-solving and diabetes self-care activities in a clinic-based population of adults with type 2 diabetes mellitus. *J Diabetes Complications*. 2017 May;31(5):880-885.
- 25) Postpartum Depression: Action Towards Causes and Treatment (PACT) Consortium: Putnam K, Wilcox M, Robertson-Blackmore E, Sharkey K, , Bergink V, Munk-Olsen T, Deligiannidis K, **Payne J**, Altemus M, Newport J, Apter G, Devouche E, Viktorin A, Magnusson P<sup>13</sup>, Lichtenstein P, Penninx B, Buist A, Bilszta J, O'Hara M, Stuart S, Brock R, Roza S, Tiemeier H, Guille C, Epperson CN, Kim D, Schmidt P, Martinez P, Wisner KL, Stowe Z, Jones I, Sullivan PF, Rubinow D, Wildenhaus K, Meltzer-Brody S.. Clinical phenotypes of perinatal depression are associated with time of symptom onset: Findings from an International Consortium. *Lancet Psychiatry*. 2017; 4(6):477-485.
- 26) Mayo-Wilson E, Li T, Fusco N, Bertizzolo L, Canner J, Cowley T, Doshi P, Ehmsen J, Gresham, G, Guo N, Haythornthwaite JA, Heyward J, Hong H, Lock D, **Payne JL**, Rosman L, Stuart EA, Suarez-Cuervo C, Tolbert E, Twose C, Vedula S, Dickersin K. Cherry-picking by trialists and meta-analysts can drive conclusions about intervention efficacy. *J Clin Epidemiol*. 2017 Nov; 91:95-110.
- 27) Knight AK, Conneely KN, Kilaru V, Cobb D, **Payne JL**, Meilman S, Corwin EJ, Kaminsky ZA, Dunlop AL, Smith AK. *SLC9B1* Methylation Predicts Fetal Intolerance of Labor. *Epigenetics*. 2018; Jan 25:1-7 (epub).
- 28) Mayo-Wilson E, Golozar A, Cowley T, Fusco N, Gresham G, Haythornthwaite J, Tolbert E, **Payne JL**, Rosman L, Hutfless S, Canner JK, Dickersin K. Methods to identify and prioritize patient-centered outcomes for use in comparative effectiveness research. *BMC Pilot and Feasibility Studies*. 2018; 4: 95.
- 29) Osborne LM, Betz JF, Yenokyan G, Standeven LR, **Payne JL**. The role of allopregnanolone in pregnancy in predicting postpartum anxiety symptoms. *Frontiers in Psychology* 2018;10: 1033.
- 30) McEvoy KM, Rayapati D, Washington Cole KO, Erdly C, **Payne JL**, Osborne LM. Poor Postpartum Sleep Quality Predicts Subsequent Postpartum Depressive Symptoms in a High-Risk Sample. *J Clin Sleep Med*. 2019 Sep 15;15(9):1303-1310.
- 31) **Payne JL**, Osborne LM, Cox O, Kelly J, Meilman S, Jones I, Grenier W, Clark K, Ross E, McGinn R, Wadhwa PD, Entringer S, Dunlop AL, Knight AK, Smith AK, Buss C, Kaminsky ZA. DNA methylation biomarkers prospectively predict both antenatal and postpartum depression. In Press.

#### INVITED REVIEWS AND EDITORIALS

- 1) Zarate CA, Quiroz J, **Payne JL**, Manji HK. Modulators of the glutamatergic system: implications for the development of improved therapeutics in mood disorders. *Psychopharmacology Bulletin*. 2002; 36(4): 35-83.
- 2) **Payne JL**, Quiroz AJ, Zarate CA, Manji HK. Timing is everything: does the robust regulation of noradrenergically regulated plasticity genes underlie the rapid antidepressant effects of sleep deprivation? *Biological Psychiatry*. 2002; 52 (10): 921-9261.
- 3) Manji HK, Quiroz JA, Sporn J, **Payne JL**, Denicoff K, Gray N, Chen G, Zarate CA, Charney DS. Enhancing synaptic plasticity and cellular resilience to develop novel, improved therapeutics for difficult to treat depression. *Biological Psychiatry*. 2003; 53: 707-742.
- 4) Manji HK, Quiroz JA, **Payne JL**, Singh J, Lopes BP, Viegas JS, Zarate CA. The underlying neurobiology of bipolar disorder. *World Psychiatry*. 2003; 2(3): 136-146.
- 5) **Payne JL**. The role of estrogen in mood disorders in women. *International Review of Psychiatry*. 2003; 15: 279-289.

- 6) Quiroz J, **Payne JL**, Zarate CA, Jr. A selected review of novel pharmacologic strategies for treatment of acute mania. *Clinical Approaches in Bipolar Disorders*. 2003; 2(1): 13-23.
- 7) **Payne JL**, Potash JB, DePaulo JR. Recent Findings on the genetic basis of bipolar disorder. *Psychiatric Clinics of North America*. 2005; 28 (2):481-498.
- 8) **Payne JL**. Evaluation of outcomes with citalopram for depression using measurement-based care in STAR\*D: implications for clinical practice. Invited Review. *Nature Clinical Practice Neurology*. 2006; 2(10): 2-3.
- 9) **Payne JL**. Antidepressant use in the postpartum period: practical considerations. *American Journal of Psychiatry*. 2007; 164(9):1329-32.
- 10) Meltzer-Brody S, **Payne JL**, Rubinow D. Postpartum depression: evolving etiology and treatment considerations. *Current Psychiatry*. 2008; 7(5): 87.
- 11) **Payne JL**, Teitelbaum-Palmer J, Joffe H. A reproductive subtype of depression: conceptualizing models and moving towards etiology. *Harvard Review of Psychiatry*. 2009; 17(2): 72-86.
- 12) **Payne JL**, Meltzer-Brody S. Antidepressant use during pregnancy: current controversies and treatment strategies. *Clinical Obstetrics and Gynecology*. 2009; 52(3): 469-82.
- 13) **Payne JL**. Editorial: Bipolar disorder in women with premenstrual exacerbation. *American Journal of Psychiatry*. 2011; 168 (4): 344-346.
- 14) **Payne JL**. Depression: is pregnancy protective? Invited Editorial of “Depression and Treatment among U.S. Pregnant and Non-pregnant Women of Reproductive Age, 2005-2009. *J Womens Health*. 2012; 21(8):809-10
- 15) **Payne JL**. Use of antidepressants in the second trimester is associated with reduced pregnancy duration, and third trimester antidepressant use with infant convulsions. *Evid Based Nurs*. 2012; 16 (3) 74-5.
- 16) Richards E, **Payne JL**. Management of depression during pregnancy: alternatives to antidepressants. *CNS Spectrums*. 2013; 18 (5) 261-71.
- 17) Kimmel M, Kaminsky Z, **Payne JL**. Biomarker or pathophysiology? The role of DNA methylation in postpartum depression. *Epigenomics*. 2013, 5(5):473-5.
- 18) Uher R, **Payne JL**, Pavlova B, Perlis RH. Major depressive disorder in DSM-5: implications for clinical practice and research of changes from DSM-IV. *Depression and Anxiety*. 2014; 31(6):459-71.
- 19) Kaminsky Z, **Payne JL**. Seeing the future: epigenetic biomarkers of postpartum depression. *Neuropsychopharmacology*. 2014; 39: 234.
- 20) **Payne JL**. Antidepressant exposure during the first trimester does not increase the risk of cardiac malformations in infants. Invited Commentary on “Antidepressant Use in Pregnancy and the Risk of Cardiac Defects.” *Evidence Based Mental Health*. 2015; 18(2): 48.
- 21) Osborne L, **Payne JL**. Antidepressants, pregnancy, and stigma: how we are failing mothers and babies. *The Journal of Nervous and Mental Disease*. 2015; 203(3): 164-6.
- 22) Chisolm MS, **Payne JL**. Management of psychotropic drugs during pregnancy. *British Medical Journal*. 2016; 20;532:h5918

- 23) **Payne JL.** Recent advances and controversies in peripartum depression. *Current Obstetrics and Gynecology Reports.* 2016; 5:250-56.
- 24) **Payne JL.** Yes or no: prescribing antidepressants to pregnant patients. *Psychiatric News Psychopharmacology.* 2016; 2 (3).
- 25) **Osborne LM, McEvoy K, Payne JL.** Antidepressants in pregnancy: balancing needs and risks in clinical practice. *Psychiatric Times Special Report.* April 27, 2017.
- 26) **Payne JL.** Psychopharmacology in pregnancy and breastfeeding. In: *Women's Mental Health Issue of Psychiatric Clinics of North American* (Edited by Pearlstein). Volume 40, Issue 2, June 2017, Pages 217–238.
- 27) **McEvoy K, Osborne LM, Payne JL.** Reproductive Affective Disorders: A Review of the Genetic Evidence for Premenstrual Dysphoric Disorder and Postpartum Depression, *Current Psychiatry Reports.* 2017; 30;19(12):94.
- 28) **Payne JL.** Book Forum: “The Psychosis of Menstruation and Childbearing.” *American Journal of Psychiatry,* 2018, 175(2), pp. 190–191.
- 29) **Standeven L, Osborne LM, Payne JL.** The Trouble with Don't Ask Don't Tell: Commentary on “Depression Screening During Pregnancy and the Postpartum Period: Enhancing Informed Consent Practices,” *Women's Reproductive Health.* 2018; 5:1, 25-31.
- 30) **McEvoy K, Payne JL, Osborne LM.** Neuroactive steroids and perinatal depression: a review of recent literature. *Current Psychiatry Reports.* 2018; 20 (9), 78.
- 31) **Payne JL, Maguire J.** Pathophysiological mechanisms implicated in postpartum depression, Special Issue: “Parental Brain and Behavior,” *Frontiers in Neuroendocrinology,* 2019.
- 32) **Payne JL.** Reproductive psychiatry: giving birth to a new subspecialty. Editor of “Reproductive Psychiatry,” Special Issue for *International Psychiatry,* 2019; 40(2):217-238.
- 33) **Payne JL.** Psychopharmacology in pregnancy and breastfeeding. *Medical Clinics of North American.* 2019; 40(2):217-238 (Reissue).

#### CASE REPORTS

- 1) **Palmer JT, Payne JL.** Stabilization of hypomania following initiation of tamoxifen. *American Journal of Psychiatry.* 2008; 165(5):650-1.

#### THESIS

- 1) **Payne JL.** The effects of ganglioside treatments after bilateral entorhinal cortex lesions on recovery in the open field and the DRL task. Davidson College Publications. 1990.

#### BOOK CHAPTERS

- 1) **Payne JL, Quiroz J, Gould TD, Zarate CA, Manji HK.** The cellular neurobiology of bipolar disorder. In: *The Neurobiology of Mental Illness* (Edited by Charney, Nestler). Oxford University Press, New York, NY. 2005.
- 2) **Roy P, Payne JL.** The use of psychotropic medications in bipolar disorder during pregnancy. In: *Bipolar Depression: Molecular Neurobiology, Clinical Diagnosis, and Pharmacotherapy* (Edited by Zarate, Manji). Milestones in Drug Therapy Series, (Edited by Parnham, Bruinvels). Birkhäuser Publishing, 2008.

- 3) Rogan SC, **Payne JL**, Meltzer-Brody S. Relationship between depressive mood and maternal obesity: implications for postpartum depression. In: Obesity during Pregnancy in Clinical Practice. Springer, Inc. 2013.
- 4) **Payne JL**, Kornstein SG. Psychiatric conditions during peripartum and perimenopause. In: Psychiatry, 4<sup>th</sup> edition (Edited by Tasman, Lieberman, Kay, First, Riba). John Wiley & Sons, 2015.
- 5) **Payne JL**. The management of bipolar disorder during and after pregnancy. In: Bipolar Depression: Molecular Neurobiology, Clinical Diagnosis and Pharmacotherapy, 2<sup>nd</sup> Edition (Edited by Zarate, Manji). Springer International Publishing, 2016.
- 6) **Payne JL**. Postpartum psychosis: epidemiology, clinical manifestations, assessment and diagnosis. In: UpToDate (www.UpToDate.com) (Edited by Marder, Hermann). Wolters Kluwer, 2017.
- 7) Osborne LM, **Payne JL**. Depression and Anxiety Monograph. In: Clinical Updates in Women's Health Care. American College of Obstetrics and Gynecologists (Edited by Snyder), 2017.
- 8) **Payne JL**. Psychopharmacology in pregnancy and lactation. In: Women's Mental Health – A Clinical and Evidence-Based Guide. (Editors: Rennó Jr, Valadares, Cantilino, Mendes-Ribeiro, Rocha, Geraldo da Silva.) Springer International Publishing, 2018.
- 9) **Payne JL**. Genetic basis for postpartum depression. In: Biomarkers of Postpartum Psychiatric Disorders. Editors **Payne JL** and Osborne LO. Elsevier Publishing. 2019, In press.
- 10) Kaminsky Z, Payne JL. Epigenetic biomarkers of postpartum depression. In: Biomarkers of Postpartum Psychiatric Disorders. Editors **Payne JL** and Osborne LO. Elsevier Publishing. 2019, In press.

## BOOKS

- 1) Biomarkers of Postpartum Psychiatric Disorders. Editors **Payne, JL** and Osborne, LO. Elsevier Publishing. 2019.
- 2) Case Studies in Reproductive Psychiatry. Osborne, LO and Payne, JL. Elsevier Publishing, in press 2020.

## EXTRAMURAL FUNDING:

### CURRENT

R01 MH112704-01 (Payne and Kaminsky)

NIH

Prospective Study of Epigenetic Markers of Postpartum Depression

Role: Co-PI

This study will identify epigenetic markers of postpartum depression in a large sample (300) of pregnant and postpartum women with and without mood disorders.

1R01MH104262-01 (Kaminsky-PI)

NIH

Neuroimaging epigenetics of prospective postpartum depression biomarkers

Role: Co-Investigator

This study examines neuroimaging and epigenetic biomarkers of postpartum depression in women with and without a history of mood disorders.

R01

NIH

Personalized Integrated Chronotherapy for Perinatal Depression

Role: Site PI

This multisite study will examine the efficacy of a personalized chronotherapy intervention in women with perinatal depression and anxiety symptoms.

Venture Discovery Fund

Johns Hopkins Department of Psychiatry

A Pilot Study of the Prophylactic Management of Lamotrigine for Bipolar Disorder in Pregnant Women

Role: PI

This study will collect pilot data testing a prophylactic therapeutic drug monitoring protocol for lamotrigine in pregnant women with bipolar disorder.

#### COMPLETED

The Krieger Fund (PI: Solomon)

Enhancing Mental Health Services for Mothers and Infants at the Harriet Lane Clinic

Role: Co-Investigator (Clinician Supervisor)

The goal of this project is to expand the capacity of our urban primary care clinic to provide additional on-site maternal mental health treatment services, group-based interventions and intensive case management.

SAGE 547-PPD-202

SAGE Therapeutics

A multicenter, randomized, double-blind, parallel-group, placebo-controlled study evaluating the efficacy, safety and pharmacokinetics of SAGE-547 Injection in the treatment of adult female subjects with severe postpartum depression

Role: Site PI

The study investigated the efficacy, safety and pharmacokinetics of allopregnanolone in the treatment of postpartum depression.

PCORI (Dickerson-PI)

Integrating Multiple Data Sources for Meta-Analysis to Improve Patient-Centered Outcomes Research

Role: Co-Investigator

This study explored the reliability and validity of incorporating data from multiple data sources for two specific cases (gabapentin for neuropathic pain and quetiapine for bipolar disorder) in order to produce open access guidance about using multiple data sources.

1 R03 DK088997-01 (Golden- PI)

NIH

Prevalence and Correlates of Minor Depression in Type 2 Diabetes

Role: Co-Investigator

The goal of this study was to test the hypothesis that minor depression among adults with type 2 diabetes (T2D) is prevalent and is associated with poor metabolic control, as is seen in major depressive disorder, and that this association might be explained by behavioral and biological factors associated with these disorders.

Corcept

A Double-Blind, Placebo-Controlled Study of the Efficacy and Safety of CORLUX® (Mifepristone) vs. Placebo in the Treatment of Psychotic Symptoms in Patients with Major Depressive Disorder with Psychotic Features

Role: Site PI

This was a double-blind, placebo controlled trial of mifepristone in the treatment of Major Depression with Psychotic Features.

06TGF-981 (Payne-PI)

04/01/07-04/30/12

Stanley Medical Research Institute

A Double-Blind Placebo-Controlled Trial of Valacyclovir in the Cognitive Impairment of Bipolar Disorder

Role: PI



This study examined the hypothesis that subjects with Bipolar Disorder and cognitive impairment who are HSV-1 positive will experience improved cognitive functioning if randomized to valacyclovir as compared to placebo.

K23 MH074799-01A2 (Payne-PI)

02/01/07-01/31/12

NIH

Genetics of Postpartum Depression in Affective Disorders

Role: PI

This purpose of this mentored K23 career development award was to enable Dr. Payne to develop into an independent investigator in the genetics of affective disorders with an emphasis on hormonally-triggered symptoms in women, particularly postpartum depression.

03T-457 (Payne-PI)

03/01/04-02/01/11

Stanley Medical Research Institute

A Double-Blind, Placebo Controlled Trial of Riluzole in Bipolar Depression

Role: PI

The major goal of this project was to test the hypothesis that riluzole, an antiglutamatergic agent, is more efficacious than placebo in patients with Bipolar I or II disorder who are currently episode depressed.

Repligen

04/01/09-03/31/11

A Phase II Randomized, Double-Blind, Placebo-Controlled, Flexible-Dose Study to Assess the Safety, Tolerability and Efficacy of RG2417 (Uridine) in the Treatment of Bipolar I Depression

Role: PI

This study examined the hypothesis patients with Bipolar I depression will experience improved depressive symptoms if randomized to Uridine, a compound involved in energy metabolism and DNA synthesis, as compared to placebo.

NARSAD Young Investigator (Payne-PI)

07/01/04-06/30/06

An Examination of Genetic Polymorphisms Associated with Hormonally-Induced Mood Changes in Women with Mood Disorders

Role: PI

The major goal of this project was to determine if the trait of mood symptoms which are triggered by hormonal fluctuations such as the menstrual cycle and in the postpartum period exhibits familiarity (runs in some families and not others).

CAGO178A2303 (Mondimore-PI)

04/-1/07-04/01/08

Novartis

Agomelatine in Major Depression

Role: Co-Investigator

This study examined the efficacy of agomelatine in the treatment of Major Depression. It is a double-blind, placebo- and paroxetine-controlled multicenter study. 10 subjects will be recruited and randomized at Johns Hopkins.

## **CLINICAL ACTIVITIES**

### **CLINICAL FOCUS**

I co-founded the Women's Mood Disorders Center in 2004 and I became Director of the Center in 2009. My clinical work has focused on the management of psychiatric disorders, including major depression and bipolar disorder, in pregnancy and the postpartum time period. As a "reproductive psychiatrist" I consult on and manage women with mood disorder prior to, during and after pregnancy and have specialized in designing safe and effective treatment options for women with psychiatric illness during pregnancy. Our clinic also evaluates and treats other types of "reproductive depressions" including Premenstrual Dysphoric Disorder and perimenopausal depression as well as anxiety disorders, bipolar disorder and major depression unrelated to reproductive life events. As part of our clinical services we have a weekly "Resident's Mood Disorders Clinic" in which PGY3 residents rotate for 6 months at time and receive one-on-one clinical teaching regarding managing psychiatric outpatients as well as a didactic case

conference which includes a curriculum teaching issues specific to women's mental health. As the Director of the Women's Mood Disorders Center I have recruited and maintained clinical staff which at this time includes two faculty members, two clinical social workers, a psychiatric nurse practitioner and a women's mental health fellow.

#### CERTIFICATION

- 2000-present Maryland State Board of Physician Quality Assurance
- 2002-present American Board of Psychiatry and Neurology

#### SERVICE RESPONSIBILITIES

- 2003-2008 Inpatient attending on Mood Disorders Unit two months per year
- 2003-present Weekend inpatient attending on General Service unit approximately five to seven weekends per year
- 2003-2007 Mood Disorders Consultation Clinic-performed consults on approximately a weekly basis
- 2004-present Women's Mood Disorders Center consultations- I both conduct and supervise junior faculty and residents in evaluating women with mood disorders performing 1-4 consults weekly
- 2005-2011 Project Connections- provided mental health services on a weekly basis to women participating in the Healthy Start community program. This program is supported by private foundation grants through Johns Hopkins Bayview Community Psychiatry.
- 2012-present Harriet Lane Clinic- provide mental health services on a weekly basis to women whose children are evaluated in the Harriet Lane Pediatric Clinic. I currently supervise our nurse practitioner on her clinical care of this population. This program is supported by private foundation grants.
- 2003-present Outpatient Clinic- long-term follow-up of approximately 80 outpatients
- 2008-present Resident's Mood Disorders Clinic-Supervise residents in the evaluation and follow-up care of patients with mood disorders on a weekly basis. Provides two-three consults/intakes and 14-16 follow-ups per week.
- 2011-present Inpatient attending on the Mood Disorders Unit and/or Chronic Pain service, 2-3 months per year.

#### CLINICAL PROGRAM BUILDING/LEADERSHIP:

- 2004-present Women's Mood Disorders Center, Director
- 2008-present Residents Mood Disorders Clinic, Director
- 2008-present Outpatient Residency Program, Co-Director

#### EDUCATIONAL ACTIVITIES

##### EDUCATIONAL FOCUS

My educational activities have focused on two areas: psychiatric outpatient clinical care and the management of mood and anxiety disorders during and after pregnancy. I co-direct the psychiatric residency outpatient educational program, including organizing the PGY2 lecture series, clinical supervision, and clinical experiences. The majority of my educational activities, however, reflect my clinical expertise in the management of psychiatric illness during and after pregnancy. These include lectures in the Psychiatry Department's Grand Rounds, PGY 2 and PGY 3 lecture series, and weekly teaching in the Resident's Clinic Didactic and Case Conference Series. As part of our weekly Resident's Clinic, Dr. Osborne and I have developed a regular series of lectures on Reproductive Psychiatry including journal article discussion, formal lectures and case discussions.

##### TEACHING

###### Classroom Instruction

###### *Course Director*

- 2008-present Clinical Case Conference and Journal Club, Residents Mood Disorders Clinic (weekly)

- 2008-present PGY2 Practice of Outpatient Psychiatry and Psychotherapy Lecture Series (weekly)  
 2013-present Obstetrics and Gynecology Selective in Women's Mood Disorders (2 weeks per term)

### *Current Regular Lectures*

- Grand Rounds, Department of Psychiatry, Johns Hopkins, approximately yearly or bi-yearly
- Research Conference, Department of Psychiatry, Johns Hopkins, every other year
- PGY2 Lecture Series (Bipolar Disorders) yearly
- PGY4 Lecture Series (NIH Fellowships) yearly
- PRECEDE Module for Ob-Gyn rotation, Medical School, Workshop on Postpartum Depression (4 times yearly)
- "Perinatal Mood Disorders: Outcomes for Mothers and Babies" for Intersection of Physical and Mental Health course in Bloomberg School of Public Health yearly

### *Past Lectures*

- 1<sup>st</sup> year of Medical School Small Group Interviewing Instructor and Tutorial in Psychiatry
- 2<sup>nd</sup> year of Medical School Pharmacology Lecture Series (Antidepressants)
- 2<sup>nd</sup> year Genes to Society Lecture Series (Postpartum Depression, Premenstrual Mood Disorders, Ob-Gyn Section)
- 4<sup>th</sup> year of Medical School Psychiatry Rotation Lecture Series (Mood Disorders)

### *Clinical Instruction*

- 2003-present PGY 2 Inpatient Rotation Supervisory. Provides daily clinical supervision of resident inpatient cases for 2-3 months per year.
- 2004-present Outpatient Supervisor. Provides weekly clinical supervision of resident outpatient cases. Supervisors rotate every 6 months.
- 2008-present Director, Residents Mood Disorders Clinic. Provides weekly hands-on clinical supervision for 6-7 PGY3 residents in the evaluation and follow-up care of patients with mood disorders.
- 2013-present Obstetrics and Gynecology Selective in Women's Mood Disorders. Two weeks (4 times yearly) of individual clinical supervision in the evaluation and management of women with mood disorders for a medical student rotating on Obstetrics and Gynecology.

### *Conference Organization Committees*

- 2012-2015 Department of Psychiatry Research Conference Committee

### *CME ACTIVITIES*

- 2008 Course Director and Participant for "The Hidden Peril of Mixed Bipolar Episodes in Primary Care," DVD.
- 2008 Faculty Reviewer of "Differential Diagnosis and Management of Bipolar II Disorder," Monograph.
- 2010 Course Director and Participant for "Improving Bipolar Disorder Health Outcomes Through Integrated Care," online interactive CME presentation and case review
- 2012 Author of CME content for "The management of major depression in pregnancy" In: Cyberounds ([www.Cyberounds.com](http://www.Cyberounds.com)).
- 2013 Faculty Speaker for "Optimizing Assessment and Management of Patients with Depression: A Case-based Virtual CME Summit Series," live video telecast of lecture and questions and answers from online audience.
- 2013 Faculty Speaker for "A Close Look at Treatment-Resistant Depression," live video telecast of lecture and questions and answers from online audience.

- 2016 Appointed to the Johns Hopkins CME Advisory Committee
- 2018 Author of CME content for “Evaluation and Treatment of Premenstrual Mood Disorders,” In: American Physician Institute for Advanced Professional Studies (API) CMEtoGO Audio Series.
- 2018 Author of CME content for “Peripartum Depression: Update on Assessment and Management,” In: American Physician Institute for Advanced Professional Studies (API) CMEtoGO Audio Series.
- 2019 Author of CME content for “Management of Bipolar Disorder during and after Pregnancy,” In: American Physician Institute for Advanced Professional Studies (API) CMEtoGO Audio Series.
- 2019 Author of CME content for “Myths and Realities of Antidepressant Use in Pregnancy,” In: American Physician Institute for Advanced Professional Studies (API) CMEtoGO Audio Series.
- 2019 Author of CME content for “Management of Bipolar Disorder in Pregnancy and Postpartum,” In: American Psychiatric Association CME modules, in press.
- 2019 Medscape Video Curbside Consult: "Three Steps for Effective Diagnosis of Postpartum Depression." Developed content and participated in videotaping.

## MENTORING

- 2004-2007 Eve Fields, M.D. I served as the mentor for Dr. Fields during her residency and oversaw a clinical research project that she conducted on depressive symptoms in adoptive mothers. This work has been published.
- 2004-2012 Patricia Roy, M.D., Instructor of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine. Dr. Roy completed a post-doctoral year (2004-2005) under my supervision and continued working with me during residency. I successfully recruited Dr. Roy to join my group in 2008 as a junior faculty. She left in 2012 to become the director of a psychiatric unit at Virginia Hospital Center and is currently working at the College of William and Mary as a clinical psychiatrist. We published 2 original research papers and one book chapter together.
- 2007-2016 Jennifer Teitelbaum-Palmer, M.D. Dr. Palmer completed a fellowship year with me post-residency during which she focused on specialized training in mood disorders and clinical trial work. We have published one original research article, one case report and one invited review together. Dr. Palmer continued to work with me part-time in the Women’s Center on a weekly basis until the end of 2016 when she began practicing in private practice full time. She has served as the President of the Maryland Psychiatric Society and has been named an APA Distinguished fellow.
- 2007-2009 Emily Bost, M.D. Dr. Bost completed a fellowship year with me post-residency during which she focused on specialized training in mood disorders and clinical trial work. During the last year of her residency training I oversaw a chart review project on Bipolar Disorder and ECT that Dr. Bost designed.
- 2007-2012 Jennifer Meuchel, M.D. Dr. Meuchel is currently a clinical associate in the Community Psychiatry Program here at Hopkins. I supervised her conducting clinical consultation in the Women’s Mood Disorders Center as well as clinical research interviews and follow-up appointments.
- 2013-present Society of Biological Psychiatry Mentor. I serve as a mentor to a junior investigator attending the Annual SOBP meeting on an approximately yearly basis.
- 2012-2014 Mary Kimmel, MD. I served as a mentor for Dr. Kimmel during her fellowship in mood disorders with an emphasis on mood disorders in women. She published a first- author clinical research publication during her

fellowship and helped start a successful embedded psychiatry clinic in the Harriet Lane Pediatric Clinic dedicated to treating mothers of pediatric patients. In total we have published 4 original research articles and one invited review together. Dr. Kimmel was successfully recruited to UNC as a Clinical Assistant Professor and serves as the Medical Director of the Perinatal Psychiatry Inpatient Unit, a one-of-a-kind psychiatry unit dedicated to psychiatric care of women during and after pregnancy. She has received her K award, “The Microbiota-Gut-Brain Axis and Postpartum Depression (MH110660-01) and contributed a chapter to the book “Biomarkers of Postpartum Psychiatric Disorders” which I am editing. We have also given several lectures together as part of symposium at major conferences such as Society for Biological Psychiatry.

2014-present Lauren Osborne, MD. Dr. Osborne joined my group as junior faculty in 2014 as an Assistant Professor of Psychiatry and the Assistant Director of the Women’s Mood Disorders Center. She completed clinical and research training in women’s mental health at Columbia and specializes in the management of mood and anxiety disorders in women. She has successfully obtained NARSAD funding, funding from the NIH loan repayment program and has successfully obtained her K award entitled “Biological Mechanisms of Perinatal Anxiety” in June 2017. We have co-authored a number of papers, developed an education program for residents and fellows and frequently present together at conferences. Most recently we co-edited a book together: Biomarkers of Postpartum Psychiatric Disorders to be published by Elsevier later this year.

2016-2018 Katherine McEvoy, MD. Dr. McEvoy was the first “Reproductive Psychiatry Fellow” for the Women’s Mood Disorders Center and began her fellowship in July of 2016. She completed two years of intensive clinical and research training through the WMDC in Reproductive Psychiatry. She returned to her native Ireland last year and will be conducting clinical work focused on women with psychiatric disorders in Galway, Ireland.

2018-present Lindsay Standeven, MD. Dr. Standeven is the second “Reproductive Psychiatry Fellow” for the Women’s Mood Disorders Center and will began her fellowship in July of 2018. She will complete two years of intensive clinical and research training through the WMDC in Reproductive Psychiatry. She is currently conducting a research project on the influence of hormonal contraceptive-based methods on mood and anxiety symptoms. We have published several research and review articles together and she’s written a chapter for our book: Biomarkers of Postpartum Psychiatric Disorders.

#### APA Resident Fellow Member (RFM) Mentorship Program

2018-2019 Sarah Kaughman, MD: PGY4 and Women’s Mental Health Fellow at Columbia University

#### International Marcé Society for Perinatal Mental Health Mentorship Program

2019-2020 Lucy Barker, MD, FRCPC: Psychiatrist, Reproductive Life Stages Program, Women's College Hospital, Fellow, Women's College Research Institute, PhD Candidate, Institute for Health Policy, Management and Evaluation, University of Toronto

#### Undergraduate Medical Tutorials

2006 Balasonova Alekseyevna

2007 Shira Yun; Yoni Lax

#### Medical Student Summer Tutorials and Electives

2006 Rush Chewning (Johns Hopkins)

2007 Magdalena Szkudlinska (University of Maryland)

2013 Laura Kaplan and Andrew Halls (Johns Hopkins)

2014 Amanda Sun

2019 Sonal Chaudhay

#### Medical Humanities Scholarly Concentration Mentor

2012-2013 Veronica Hocker

#### Mentor for Masters of Medical Science Thesis

2014-2015 Demetra Schermerhorn

Mentor BIRCWH Scholar Award

2017-2018 Janiece Walker, Assistant Professor, Johns Hopkins School of Nursing

Resident Elective Rotations

2004-2005 Phillip Kronstein; Jess Fiedorowicz

2005-2006 Eve Fields

2006-2007 Terri Crimmins-Tubb; Emily Bost, Jennifer Teitelbaum-Palmer

2007-2008 Patricia Roy; Jennifer Meuchel

2008-2009 Amanda Dorn; Pamela Horn; Crystal Clark; Mary Kimmel

2010-2011 Daniel Mathews

2011-2012 Mary Kimmel; Erica Richards

2012-2013 Yuval Asner

2013-2014 Joanna Pearson

2014-2015 Yelena Gimelshteyn

2015-2016 Michael Brown; Zina Meriden

2016-2017 Nicole Lestikow; Cindy Huang; Nadimire Jules-Dole; Margaret Heine

2017-2018 Lindsay Standeven

2018-2019 Heather Bellis-Jones; Prashant Sharma

2019-2020 Julie Brownley, Julia Riddle; Sasha Blaes

## RESEARCH ACTIVITIES

### RESEARCH FOCUS

My research work through the Women's Mood Disorders Center has focused on the biological, genetic and environmental risk factors for postpartum depression and, more recently, establishing evidence for best psychiatric medication management practices during pregnancy. We have identified two epigenetic biomarkers of postpartum depression and have since confirmed our findings in several outside samples. We are working on replicating this work with NIH funding. I also direct the Mood Disorders Clinical Trials group, which has the goal of developing novel therapeutic treatments for mood disorders. Most recently we are focusing on novel treatments for postpartum depression, including allopregnanolone funded by SAGE therapeutics, and testing clinical protocols for the management of mood disorders during pregnancy. As Director of the Women's Mood Disorders Center, I have recruited a number of research staff all of whom are supported by grant funding. These currently include a Research Program Manager and three research assistants and we currently have plans to hire another research assistant and a data analyst in the next few months.

### RESEARCH PROGRAM BUILDING/LEADERSHIP

2004-present Adult Mood Disorder Clinical Trials Group, Director. I founded the group in 2004 and have successfully recruited both senior and junior faculty as members who have provided effort towards the clinical trial grants that we have obtained. The Clinical Trials Group has completed four clinical trials, two of which were funded by the Stanley Medical Research Institute. For these studies we successfully recruited and randomized 150 subjects with bipolar disorder as single-site studies. Most recently we have been funded by SAGE Therapeutics as part of a multi-site trial using allopregnanolone for postpartum depression and we are expanding our work into testing specific protocols in order to improve outcomes for pregnant women with mood disorders.

2004- present Women's Mood Disorders Center, Director. Founded in 2004 initially as a clinical enterprise, beginning in 2006 I expanded the Center's goals to include establishing a research program specifically geared towards gaining a better understanding of mood disorders in women and designing improved treatment strategies, particularly during pregnancy. All women seen clinically through the Center have an opportunity to participate in research. Our work through the Center has identified 2 epigenetic biomarkers of postpartum depression that we are hoping to develop into a test and we now have NIH funding to replicate our findings in a larger sample of pregnant women both with and without pre-existing mood disorders. We collaborate with outside investigators including David

Rubinow, Samantha Meltzer-Brody, Katherine Sharkey and Kristina Deligiannidis, all considered research leaders within “Reproductive Psychiatry.”

#### PATENTS

Patent number 13851897.2-1403 PCT/US2013068241 “DNA Methylation Biomarkers of Postpartum Depression Risk.”

#### TECHNOLOGY TRANSFER ACTIVITIES

2018 Appointed CMO of Methyx, LLC, founded by Dr. Zachary Kaminsky to further develop epigenetic biomarkers of postpartum depression and suicide risk for clinical use.

#### SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

Not Applicable

#### ORGANIZATIONAL ACTIVITIES

#### INSTITUTIONAL ADMINISTRATIVE APPOINTMENTS

2013	Obstetrics and Gynecology Department Chair Search Committee
2013-2015	Member, Psychiatry Department Research Conference Planning Committee
2014-present	Department Liaison and Case Supervisor to Faculty and Staff Assistance Program (FASAP)
2014-present	Member, Professional Advisory Committee (PAC)
2014-present	Member, Task Force on Women Faculty
2015-2016	Appointed by Johns Hopkins and the Maryland governor to serve on the Maryland State Maternal Mental Health Task Force
2016	Testified to the State of Maryland Congress regarding the recommendations of the Maryland State Maternal Health Task Force
2016	Appointed to the Johns Hopkins CME Advisory Committee
2018	Internal reviewer for the Johns Hopkins Department of Gynecology and Obstetrics

#### EDITORIAL BOARD APPOINTMENTS

2007-2009	Editorial Board, American Psychiatry News
2012-present	Editorial Board, Depression and Anxiety
2018-present	Editorial Board, Brazilian Journal of Psychiatry

#### JOURNAL PEER REVIEW ACTIVITIES

Ad hoc reviewer for:

- American Journal of Obstetrics and Gynecology
- American Journal of Psychiatry
- Archives of General Psychiatry
- Archives of Women’s Mental Health
- Australian and New Zealand Journal of Psychiatry
- Biological Psychiatry
- Biological Psychology
- Bipolar Disorders
- Birth Defects Research
- Brazilian Journal of Psychiatry
- BMC Health Services Research
- BMC Pregnancy and Childbirth
- BMC Psychiatry

British Medical Journal  
 British Journal of Psychiatry  
 Clinical Epidemiology  
 Depression and Anxiety  
 Depression Research and Treatment  
 European Psychiatry  
 Expert Opinion on Drug Safety  
 Expert Opinion on Pharmacotherapy  
 Expert Review of Neurotherapeutics  
 Genes, Brain and Behavior  
 Harvard Review of Psychiatry  
 Journal of American Medical Association  
 Journal of Affective Disorders  
 Journal of Clinical Psychiatry  
 Journal of Clinical Psychopharmacology  
 Journal of Psychiatric Research  
 Journal of Psychosomatic Research  
 Journal of Women's Health  
 Molecular Psychiatry  
 Neuromolecular Medicine  
 Neuropsychopharmacology  
 Neurotherapeutics  
 Nutrition Research  
 Pharmacology and Therapeutics  
 Psychoneuroendocrinology  
 Revista Brasileira de Psiquiatria, Brazilian Journal of Psychiatry

#### ADVISORY COMMITTEES, REVIEW GROUPS/STUDY SECTIONS

2005	The Myositis Association, Ad Hoc Grant Reviewer
2005	The Wellcome Trust, Ad Hoc Grant Reviewer
2005-2008	BBBP Biobehavioral and Behavioral Processes, Small Business Activities Panel (8 cycles)
2005-2006	ZMH1 ERB-W, ASCEND Review Panel, "Antidepressant Sequences/Combinations to Enhance Depression Treatment" (2 cycles)
2007	ZMH1-ERB, Special Emphasis Panel, NRSA Institutional Research Training Grants
2009	Accelerated Translational Incubator Program for the Institute for Clinical and Translational Research, Ad Hoc Grant Reviewer
2009	BBBP, Biobehavioral and Behavioral Processes IRG, Challenge Grant Reviewer
2009	Foundation for Polish Science, Welcome Program, Ad Hoc Grant Reviewer
2010	Special Emphasis Panel/Scientific Review Group 2010/08 ZRG1 PSE-K (55) R meeting
2010	Special Emphasis Panel/Scientific Review Group 2011/01 ZRG1 BBBP-T (10) B meeting
2009-2012	Translational Research Center in Behavioral Sciences (TRCBS) at Emory University, DSMB Panel for the grant "Stress in Pregnancy"
2015	NIMH K99 Review Committee
2016	Stroum Fellowship for the University of Washington's Diabetes Research Center, Ad Hoc Grant Reviewer
2016	Departmental Reviewer for Venture Discovery Fund
2016	SAMHSA Clinical Treatment Options, Expert Panels Conference Participant
2016	DHHS Office of Women's Health Maternal Depression Advisory Meeting, Invited subject matter expert participant
2016	Johns Hopkins Psychiatry Department Reviewer for Venture Discovery Fund
2017	Reviewer for NIH Review for Social Epigenomics Research Focused on Minority Health and Health Disparities



- 2017 Appointed to the Steering Committee for the National Academy of Sciences, Engineering, and Medicine Workshop “Women’s Mental Health Across the Life Course Through a Sex-Gender Lens.”
- 2017 Reviewer for NIH Review ZRG1 BBBP-T (55) for the Program Announcements “Human-Animal Interaction (HAI) Research”
- 2018 Reviewer for NIH Review ZRG1 BBBP-T (55) for the Program Announcements “Human-Animal Interaction (HAI) Research”
- 2018-present Scientific Advisory Board, The Royal Institute of Mental Health Research (IMHR), University of Ottawa, Canada
- 2018-2019 Scientific Advisory Board for the Marcé of North America (MONA) 2019 meeting
- 2018-2020 Scientific Advisory Board for North American Society for Psychosocial Obstetrics and Gynecology (NASPOG) 2020 meeting
- 2019 Reviewer for Adult Psychopathology and Disorders of Aging (APDA) study section, San Francisco, CA
- 2019 Appointed to the “Pay for Metrics Workgroup” of the Healthy Brains Financing Initiative which seeks to “Establish a set of new global financing instruments that will measurably reduce the global burden of mental health, delivering fiscal returns to governments/sovereigns, sharing these with impact investors, and delivering human impact returns to individuals and societies” via a collaboration between One Mind and the National Academy of Medicine.
- 2019 National Academy of Sciences, Engineering and Medicine Workshop on Women’s Mental Health, invited subject matter expert participant.
- 2019-present Appointed to the Advisory Board of the “Mind the Gap” Taskforce which is a Collective Impact Initiative led by Postpartum Support International (PSI), The Reilly Group, and other stakeholders, to set a strategic course to ensure perinatal mental health is a national priority.

**PROFESSIONAL SOCIETIES:**

**American Psychiatric Association**

My recent work in the APA has focused on building the knowledge, emphasis and structure for women’s mental health issues within the APA. I was initially appointed as the Deputy Representative from the Women’s Caucus in 2017 and then elected to the position in 2018. In that position I have been able help develop an APA position statement on screening for mood and anxiety disorders during and after pregnancy and have begun work on developing CME modules for the APA on management of psychiatric disorders during pregnancy and lactation. In this position, I was also able to help develop and support an Action Paper that was passed by the Assembly directing the APA to form a new Council on Women’s Mental Health. Most recently I was appointed to a Workgroup that was asked to make final recommendations regarding a Council on Women’s Mental Health. The workgroup recommended proceeding and the Board of Trustees has established a Committee on Women’s Mental Health under the Council of Children, Adolescents and their Families. I have since been appointed as the Chair of that Committee. Through my work at the APA I am trying to establish Women’s Mental Health as a national priority for the APA and will continue developing educational programs and appropriate position statements within the APA structure.

- 1998-present Member
- 2017-2018 Appointed as the Deputy Representative from the Women’s Caucus to the American Psychiatric Association Assembly
- 2017 Appointed to the APA Assembly Reference Committee, “Advancing Psychiatric Knowledge and Research.”
- 2017 Appointed by the APA Council on Research to the “Working Group on the Position statement on MH Screening in Pregnancy and Postpartum” which produced a position statement
- 2018-present Elected as the Deputy Representative from the Women’s Caucus to the American Psychiatric Association Assembly

2019 American Psychiatric Association Assembly Resident-Fellow Member (RFM)  
Mentor award

2019 Appointed to the APA Workgroup on Women’s Mental Health

2019 Appointed to the APA Assembly Committee on Procedures

2019 Appointed to the APA Reference Committee, “Membership and Organization.”

2019 Appointed as Chair, Committee on Women’s Mental Health under the Council on Children, Adolescents and their Families

**Maryland Psychiatric Society (MPS)**

1998-2001, 2004-present Member

2014-present MPS Distinguished Fellows Committee

1998-1999 MPS Residents and Fellows Committee

1999-2001 MPS Residents and Fellows Committee, Chair

2007-2009 Elected MPS Early Career Councilor

2018-2019 Appointed by the Area 3 Representative to serve on the Workgroup on Finance and Management for Area 3

**Washington Psychiatric Society**

2001-2004 Member

**Society of Biological Psychiatry**

2005-present Member

2007-2012 Society of Biological Psychiatry Membership Committee, Chair

2014-2015 Society of Biological Psychiatry Ziskind-Somerfield Research Award Committee

2016 Chair, Society of Biological Psychiatry Ziskind-Somerfield Research Award Committee

**International Marcé Society for Perinatal Mental Health**

2016-present Member

2018-present Elected to the International Marcé Society for Perinatal Mental Health Board of Directors

**Marcé of North America (MONA) (formed in 2018)**

2018-present Member

2018-2019 Appointed to the Scientific Advisory Board for the Marcé of North America (MONA) for 2019 meeting

2019 Elected as President Elect for MONA. Will serve as president from 2021-2023 and on the Board as President Elect from 2019-2021.

**North American Society for Psychosocial Obstetrics and Gynecology (NASPOG)**

2016-present Member

2018-2020 Appointed to the Scientific Advisory Board for North American Society for Psychosocial Obstetrics and Gynecology (NASPOG) 2020 meeting

**Postpartum Support International**

2016-present Member

2018-present Member of Postpartum Support International Consultation Line- Volunteer one hour a week to provide consultations to providers across the nation who are managing pregnant or postpartum women with psychiatric disorders.

**RECOGNITION**

## AWARDS, HONORS

1986-1987	Samuel H. Bell Honor Scholarship, Davidson College
1987-1990	Charles A. Dana Honor Scholarship, Davidson College
1989-1990	Merck Scholar, Davidson College
1990	NIH and Howard Hughes Grant, Conference on Undergraduate Research, Davidson College
1990	Phi Beta Kappa
1990	Graduated cum laude with High Honors in Biology, Davidson College
1992-1997	Spencer T. Olin Fellowship (full tuition support) Washington University School of Medicine
1994-1995	Howard Hughes Research Scholar, National Institutes of Health
1997	Richard S. Brookings Medical School Award for Research
1999	National Institute of Mental Health Outstanding Resident Award
2000-2001	Chief Resident, Psychiatry, Johns Hopkins School of Medicine
2001	Laughlin Fellow, American College of Psychiatrists
2001	APA/Lilly Resident Research Award
2002	NIMH Award for “Excellence in Care and Management of Patients in Clinical Research.”
2003	NCDEU (New Clinical Drug Evaluation Unit) New Investigator Award
2005, 2006	Passano Physician-Scientist Award (Johns Hopkins Clinician Scientist Award)
2006-2009	NIH Loan Repayment Awards
2012	American Psychiatric Association Distinguished Fellow
2015	Participant, Johns Hopkins Economics of Clinical Operations Course (Departmental Nomination)
2016-2017	Johns Hopkins Medicine Leadership Development Program (Departmental Nomination)
2015-2016	Appointed by Johns Hopkins and the Maryland governor to serve on the Maryland State Maternal Mental Health Task Force. Testified to the Maryland State Legislature twice which resulting in the passing of two bills dealing with perinatal mental health at the state level.
2016	DHHS Office of Women’s Health Maternal Depression Advisory Meeting Participant
2017	Appointed to the Steering Committee for the National Academy of Sciences, Engineering, and Medicine Workshop “Women’s Mental Health Across the Life Course Through a Sex-Gender Lens.”
2017	Appointed as the Deputy Representative of the Women’s Caucus to the American Psychiatric Association
2017	Appointed by the APA Council on Research to the “Working Group on the Position statement on MH Screening in Pregnancy and Postpartum” which produced a position statement
2018	Elected as the Deputy Representative of the Women’s Caucus to the American Psychiatric Association
2018	Elected to the International Marcé Society for Perinatal Mental Health Board of Directors
2018	Appointed to Scientific Advisory Board, The Royal Institute of Mental Health Research (IMHR), University of Ottawa, Canada
2018	Appointed to the Scientific Board for the Marcé of North America (MONA) 2019 meeting
2018	Appointed to the Scientific Advisory Board for North American Society for Psychosocial Obstetrics and Gynecology (NASPOG) 2020 meeting
2019	American Psychiatric Association Assembly Resident-Fellow Member (RFM) Mentor award

- 2019-2020 Mary Elizabeth Garret Executive Women's Leadership Program Participant (Departmental Nomination)
- 2019 Appointed to the DSM-5-TR Revision Subcommittee on Gender-Related Diagnostic Issues
- 2019 Co-Host International Initiative for Mental Health Leadership (IIMHL) Infant and Perinatal Mental Health Workshop, Washington, DC
- 2019 Elected as Marcé of North America (MONA) President Elect

#### INVITED LECTURES-NATIONAL

- 2004 "Clinical Research in Mood Disorders," Department of Social Work, Baltimore, MD
- 2004 "Postpartum Mood Symptoms in Women with Affective Disorders," Johns Hopkins Department of Psychiatry Grand Rounds, Baltimore, MD
- 2005 "Hormonal Influences on Mood in Women with Affective Disorders", Penn Foundation, Sellersville, PA
- 2005 "The Interplay Between Hormones and Mood," A Woman's Journey Conference, Baltimore, MD
- 2006 "Depression and Heart Disease in Women," Sister to Sister National Woman's Heart Day Health Fair, Baltimore, MD
- 2006 "Bipolar Depression: Treatment Issues and New Directions" Johns Hopkins Department of Psychiatry Grand Rounds, Baltimore, MD
- 2006 "Hormonal Influences on Mood," University of Maryland Grand Rounds, Baltimore, MD
- 2006 "Hormonal Influences on Mood in Women with Affective Disorders" and "Genetics of Postpartum Depression" (2 lectures), Sacred Heart Annual Psychiatry Conference, Allentown, PA
- 2006 "Mood Disorders in Women," Y-ME National Breast Cancer Organization Telephone Conference
- 2006 "Women's Mood Disorders and Depression," Women's Health Conference, Doctor's Community Hospital, Lanham MD
- 2007 "Postpartum Depression," The MidAtlantic Regional Conference for Nurse Practitioners, College Park, MD
- 2007 "Genetics of Peripartum Depression," Jennifer Mudd Houghtaling Perinatal Depression Conference, Chicago, IL
- 2008 "What does Adoption have to do with Postpartum Depression?" The 22<sup>nd</sup> Annual Mood Disorders Symposium, Johns Hopkins School of Medicine, Baltimore, MD
- 2008 "Bipolar Cases & Conversations Workshop," The American Conference on Psychiatric Disorders, New York, NY
- 2008 "Postpartum and Postadoption Depression: Genetics versus the Environment," Johns Hopkins Department of Psychiatry Grand Rounds, Baltimore, MD
- 2008 "Treatment Approaches for Reproductive Depression," Psychosomatic Medicine Conference, Miami, FL
- 2009 "Clinical Care of Mood Disorders During and After Pregnancy," Johns Hopkins Department of Psychiatry Grand Rounds, Baltimore, MD
- 2009 "Clinical Care of Mood Disorders During and After Pregnancy," Delaware Healthy Mothers and Infant Consortium, Committee on Systems of Care, Dover, DE
- 2009 "Management of Mood Disorders During Pregnancy," Child Psychiatry Conference, Johns Hopkins Child Psychiatry Department, Baltimore, MD
- 2010 "Perinatal Mood Disorders," Delaware healthy Mother and Infant Consortium, 5<sup>th</sup> Annual Summit on Maternal and Child Health, Wilmington, DE
- 2010 "Management of Mood Disorders During and After Pregnancy," High Risk Obstetrical Conference, Johns Hopkins Obstetrics and Gynecology Department, Baltimore, MD
- 2011 "Depression During the Reproductive Years," Hope for Depression Research Foundation Conference, Palm Beach, FL
- 2011 "Treatment of Depression During Pregnancy," Medicine for the Public Lecture Series, Suburban Hospital/NIH, Bethesda, MD
- 2011 "Identification and Treatment of Premenstrual Mood Disorders," Brookhaven Retreat Comprehensive Recovery Program for Women, Seymour, TN
- 2011 "Major Depression and Pregnancy: Clinical Care and Lessons from Research," Psychiatric Clinic of the University of Chile, Santiago, Chile

- 2012 “Antidepressant Use During Pregnancy,” NAMI, Rockville, MD
- 2012 “Adolescent Pregnancy and Psychotropic Medication Use,” Adolescent Medicine Grand Rounds, Johns Hopkins School of Medicine, Baltimore, MD
- 2012 “Management of Mood Disorders in Pregnancy,” Department of Psychiatry Grand Rounds, Georgetown University School of Medicine, Washington, DC
- 2012 “Diagnosis and Management of Postpartum Depression,” Department of Obstetrics and Gynecology Grand Rounds, St. Joe’s Hospital, Baltimore, MD
- 2013 “The Management of Mood Disorders in Pregnancy,” and “The Management of Bipolar Disorder in Women” Keynote address, Tidewater Perinatal Mental Health Conference, Hampton, VA
- 2013 “The Management of Mood Disorders in Pregnancy” at The Healthy Woman: Mind, Body, Spirit” Symposium, Saint Francis Hospital, Wilmington, DE.
- 2013 “Perinatal Mood and Anxiety Disorders: Debunking Myths and Advances in Treatment Options.” Washington Psychiatric Society, Washington, DC.
- 2013 “Life After Fellowship.” NIMH Clinical Fellow Seminar, NIH, Rockville, MD.
- 2013 “Postpartum Depression: A Model for Elucidating the Etiology of Depression,” Grand Rounds, Department of Psychiatry, Brigham and Women’s Hospital, Boston, MA.
- 2014 “DSM-5- Why Peripartum Depression is a Scientific Mistake,” Grand Rounds, University of Massachusetts Medical School, Boston, MA.
- 2014 “DSM-5: They Say “Peripartum,” I Say “Postpartum”- Let’s Call the Whole Thing Off!” Grand Rounds, Johns Hopkins Department of Psychiatry, Baltimore, MD
- 2015 “Management of Mood Disorders During Pregnancy,” Maryland Psychiatric Society CME Activity, Women’s Mental Health: Trauma, Mood Disorders and Resilience, Baltimore, MD.
- 2015 “Management of Mood Disorders During Pregnancy,” and “DSM-5: Why Peripartum Depression is a Scientific Mistake.” Residency Lecture and Grand Rounds, Penn State, Hershey, PA
- 2015 “Antidepressant Use in Pregnancy: The Myths, the Realities, the Stigma.” Fetal Infant Mortality Review, Maternal and Child Health, Baltimore City Health Department, Mercy Medical Center, Baltimore, MD
- 2015 “Antidepressant Use in Pregnancy: The Myths, the Realities, the Stigma,” Grand Rounds, Johns Hopkins Department of Psychiatry, Baltimore, MD
- 2016 “The Management of Mood Disorders in Pregnancy,” Southern Psychiatric Association and Maryland Psychiatric Society Annual Conference, Baltimore,
- 2016 “Epigenetic Biomarkers of Postpartum Depression,” FDA, Silver Spring, MD
- 2016 “Management of Mood Disorders during Pregnancy,” Grand Rounds, Obstetrics-Gynecology Department, University of Maryland, Baltimore, MD
- 2016 “Focus on Medication Management of Psychiatric Disorders during Pregnancy,” Grand Rounds, Psychiatry Department, West Virginia University, Morgantown, WV
- 2016 “Stress and Anxiety,” for *A Woman’s Journey: Ladies Night Out*, Baltimore, MD
- 2016 “Evidence-Based Approaches to Psychiatric Care during Pregnancy in the Age of Sensationalized Media,” “Medication for Women in the Perinatal Timeframe: Safe and Effective Pharmacology,” and “Advanced Perinatal Pharmacology,” for *Update on Maternal Mental Health* (sponsored by Postpartum Support Virginia), Williamsburg, VA
- 2017 “Evidence-Based Approaches to Psychiatric Care during Pregnancy in the Age of Sensationalized Media,” “Medication for Women in the Perinatal Timeframe: Safe and Effective Pharmacology,” and “Advanced Perinatal Pharmacology,” Alaska Psychiatric Association Conference, Anchorage, AK
- 2017 “Evidence-Based Approaches to Psychiatric Care during Pregnancy in the Age of Sensationalized Media,” Maryland Maternal Mortality Review Summit, Maryland Medical Society (MedChi), Baltimore, MD
- 2018 “Management of Bipolar Disorder in Pregnancy and Postpartum,” Grand Rounds, Psychiatry Department Annual Bipolar Disorder Research Lecture, Case Western Reserve University School of Medicine, Cleveland, OH
- 2018 “Antidepressant Use in Pregnancy: The Myths, the Realities, the Stigma” Johns Hopkins Department of Psychiatry Grand Rounds, Baltimore, MD
- 2018 “Fireside Chat: Gender and Mental Health: How Bias Affects Women’s Mental Health and Treatment,” Women’s Health Empowerment Summit, by the Coalition for Women’s Health Equity, Washington, DC

- 2018 “Evidence-Based Approaches to Psychiatric Care during Pregnancy in the Age of Sensationalized Media,” Grand Rounds, The 20th Annual Rachel Gundry Lecture, Psychiatry Department, University of Maryland, Baltimore, MD
- 2018 “What is Psychosis?” for the Gregory Paul Friedman (GPF) Foundation, Chicago, IL.
- 2018 “Mood Disorders in Pregnancy,” for Johns Hopkins Community Physicians 19<sup>th</sup> Annual Provider Retreat, Baltimore, MD.
- 2019 “Management of Psychiatric Medications in Pregnancy,” Obstetrics and Gynecology Grand Rounds, Stony Brook Medicine, Stony Brook, NY.
- 2019 “Treatment and Prevention of Peripartum Depression,” Washington Psychiatric Society Fall CME Symposium, Washington, DC
- 2019 “Identifying Major Depression in the Medically Ill Population,” Johns Hopkins Bayview Scleroderma Clinic, Baltimore, MD
- 2019 “Management of Perinatal Depression,” Johns Hopkins Department of Psychiatry Grand Rounds, Baltimore, MD
- 2020 “Psychopharmacology for Perinatal Depression,” Medical Grand Rounds, Abington-Jefferson Health, Abingdon, PA

#### INVITED PRESENTATIONS AT SCIENTIFIC CONFERENCES- NATIONAL

- 2007 “Familiality of Reproductive Cycle Associated Mood Symptoms in Families with Major Depression and Bipolar Disorder,” Biological Psychiatry Annual Meeting, San Diego, CA
- 2010 “Post Adoption Depression,” Marcé Society Meeting, Pittsburgh, PA
- 2011 “A Double-Blind, Placebo-Controlled Trial of Riluzole in Bipolar Depression,” Biological Psychiatry Annual Meeting, San Francisco, CA
- 2013 “A Double-Blind, Placebo Controlled Trial of Valacyclovir in Cognitive Impairment Associated with Bipolar Disorder and HSV-1,” Biological Psychiatry Annual Meeting, San Francisco, CA
- 2013 “A Double-Blind, Placebo Controlled Trial of Valacyclovir in Cognitive Impairment Associated with Bipolar Disorder and HSV-1,” NCDEU Annual Meeting, Hollywood, FL
- 2013 “Antenatal prediction of postpartum depression with blood DNA methylation biomarkers” as part of the Symposium: “Evidence of the Puerperal Trigger in Perinatal Psychiatric Illness—What Do We Know Now?” Perinatal Mental Health Meeting, Chicago, IL
- 2016 Chair, Symposium “Advances in Identifying Biomarkers of Postpartum Mood Disorders,” and individual talk “Identification and Validation of Epigenetic Biomarkers of Postpartum Depression,” Biological Psychiatry Annual Meeting, Atlanta, GA
- 2016 “Replication of Epigenetic Biomarkers of Postpartum Depression,” North American Society for Psychosocial Obstetrics and Gynecology (NASPOG) Biennial Meeting, New York, NY
- 2017 “Replication of Epigenetic Biomarkers of Postpartum Depression” and “The “Reproductive” Subtype of Depression,” Perinatal Mental Health Meeting, Chicago, IL
- 2018 “Timing Is Everything: A Review of The Genetics of Postpartum Depression,” North American Society for Psychosocial Obstetrics and Gynecology (NASPOG) Biennial Meeting, Philadelphia, PA
- 2018 Chair (Invited) Forum: “Fact or Fiction? Antidepressants Aren’t Safe in Pregnancy,” American Psychiatric Association Annual Meeting, New York, NY
- 2018 “Evidence-Based Approaches to Psychiatric Care during Pregnancy,” Presidential Symposium (Invited Speaker), American Psychiatric Association Annual Meeting, New York, NY
- 2018 “Update on the Genetic Basis for Postpartum Depression,” Women’s Mental Health across the Lifespan: Knowledge Gained and Evidence Gaps Workshop (Invited Speaker), American Society of Clinical Psychopharmacology Annual Meeting, Miami, Florida
- 2019 Chair “Gut and Brain in Motherhood: Perinatal Distress and Neuroimmune, Neuroendocrine and Microbiota Alterations” Symposium, Society for Biological Psychiatry Annual Meeting, Chicago, IL.
- 2019 “General Treatment Strategies for the Management of Psychiatric Illness during Pregnancy and Lactation ”” in the “Management of Psychiatric Illness During Pregnancy and Postpartum: What Every Psychiatrist Needs to Know” Workshop, American Psychiatric Association Annual Meeting, San Francisco, CA

- 2019 “Psychopharmacology of Perinatal Depression,” American Society of Clinical Psychopharmacology, Scottsdale, AZ
- 2019 “Genetic Association Studies of *HMCN1* and *ESRI* in Postpartum Depression,” Marcé of North America (MONA) Conference, Chapel Hill, NC
- 2019 “Maternal Mental Health and Preterm Birth,” Keynote speaker for March of Dimes Prematurity Summit, Providence, RI

#### INTERNATIONAL INVITED PRESENTATIONS

- 2009 “Genome-Wide Linkage and Follow-up Association Study of Postpartum Mood Symptoms,” Biological Psychiatry Annual Meeting, Vancouver, Canada
- 2011 “Depression, Pregnancy, and Child Development,” 10<sup>th</sup> World Congress of the World Federation of Biological Psychiatry, Prague, Czech Republic
- 2014 “Antenatal Prediction of Postpartum Depression with Blood DNA Methylation Biomarkers,” World Psychiatric Association, Madrid, Spain.
- 2014 “Smooth Sailing Through the Stresses of the Sandwich Generation,” Women’s Health Forum, MedCan Clinic, Toronto Canada.
- 2016 “Replication of Epigenetic Biomarkers of Postpartum Depression,” The Marcé Society for Perinatal Mental Health meeting, Melbourne, Australia. Note: given by Dr. L. Osborne in my absence due to daughter’s illness
- 2017 “Stress and Anxiety” for *A Woman’s Journey Saudi Arabia*, Dhahran, Saudi Arabia.
- 2018 “Genetic Basis and Epigenetic Biomarkers of Postpartum Depression,” 1<sup>st</sup> International Congress on Perinatal TOTAL Health, Sinaia, Romania
- 2018 “Masterclass: The International Network on Phenomics & Genomics of Perinatal Health: from Vision to Realization,” 1<sup>st</sup> International Congress on Perinatal TOTAL Health, Sinaia, Romania
- 2018 Visiting Professor, Department of Psychiatry at Fundacion Santa Fe de Bogota (FSFB), Bogota, Columbia. “Postpartum Depression,” “Management of Bipolar Disorder in Pregnancy and Postpartum,” “Antidepressant Use in Pregnancy: The Myths, The Realities, The Stigma.”
- 2018 “The Genetic Basis for Postpartum Depression,” The International *Marcé* Society for Perinatal Mental Health Conference, Bangalore, India
- 2018 “Update on Epigenetic Biomarkers of Postpartum Depression,” The International *Marcé* Society for Perinatal Mental Health Conference, Bangalore, India
- 2019 “Update on the Genetic Basis of Postpartum Depression,” International Association of Women’s Mental Health, Paris, France
- 2019 “Women’s Mental Health,” 2<sup>nd</sup> International Forum on Women’s Brain and Mental Health, Zurich Switzerland