

CURRICULUM VITAE

Christopher Engeland, Ph.D.

Associate Professor (Tenured)

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Research Overview: Broadly, I am interested in how stress, age, gender, and hormones affect immunity, inflammation, and health; also, the feasibility of diverse biomarkers for predicting health outcomes.

Research i) Effects of stress, age, sex & hormones on inflammation and wound healing (human, animal)

Interests: ii) Stress, inflammation, cognitive aging, and dementia risk (human)

iii) Inflammation and mental health (e.g., depression, bipolar) (human)

iv) Inflammatory biomarkers and stress as predictors of preterm birth (human)

v) Salivary diagnostics and immunity (human)

vi) Effects of chronic stress and oxytocin on wound healing (animal)

ACADEMIC POSITIONS

Associate Professor (tenured)	Biobehavioral Health (PSU)	2017 - Present
Joint Faculty Member	College of Nursing (PSU)	2013 - Present
Adjunct Faculty Member	Graduate Program for Neuroscience (PSU)	2013 - Present
Affiliate Faculty Member	Social Behavioral Neuroscience (PSU)	2019 - Present
Affiliate Faculty Member	Center of Geriatric Nursing Excellence (PSU)	2018 – Present
Affiliate Faculty Member	Center for Healthy Aging (PSU)	2016 - Present
Affiliate Faculty Member	Center for Wound Healing (UIC)	2008 - Present

Past Positions:

Assistant Professor	Biobehavioral Health (PSU)	2013 - 2017
Assistant Professor	Periodontics (UIC)	2008 - 2014
Assistant Professor (Joint)	Women, Child, Family Health Science (UIC)	2012 - 2013
Assistant Professor (Adjunct)	Neuroscience Program (UIC)	2009 - 2013
Research Assistant Professor	Periodontics (UIC)	2005 - 2008

ACADEMIC HISTORY

Post-Doctoral Fellow, *University of Illinois at Chicago (UIC)* 2003-2005, *The Ohio State University (OSU)* 2002-2003, Advisor: Phillip Marucha, Ph.D., D.M.D.

Doctor of Philosophy, Neuroscience (2002)

University of Western Ontario (UWO) - London, Ontario, Canada

Advisors: Klaus-Peter Ossenkopp Ph.D., Martin Kavaliers Ph.D.

Thesis: Factors which modulate sickness expression and tolerance development following bacterial infection in rodents

Master of Science, Specialization in Neuroscience (1997)

Carleton University - Ottawa, Ontario, Canada; Advisor: Verner Knott Ph.D.

Thesis: Nicotine and the mismatch negativity in Alzheimer's disease

Bachelor of Science, High Honours in Psychology (1994)

Carleton University - Ottawa, Ontario, Canada; Advisor: Shelley Parlow Ph.D.

Thesis: A subclassification of left-handers into consistent and inconsistent classes and an analysis of performance on a 2:1 tapping apparatus

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ACTIVE RESEARCH GRANTS (Direct costs shown)

NIH 2 P01 AG003949 (Derby) 04/01/2022 – 03/31/2027 \$24,150,895
Einstein Aging Study - Renewal proposal for currently funded P01 (see Project & Core below)

1) P01 - Project Leader (Engeland, Graham-Engeland) \$2,536,683

Depression, inflammation, biological age, and cognitive function

This longitudinal study (5 annual data waves) will examine how depression, inflammation, and biological aging (telomere length, DNA methylation) interact to predict cognitive decline, mild cognitive impairment, and dementia (e.g., Alzheimer's disease) in 767 participants 60+ years of age in the Bronx, NY.

Role: Project Leader (Multiple), 25% effort

2) P01 - Core Leader (Engeland, Pavlovic) \$1,719,450

Biomarker Core

This core for the above P01 renewal oversees the following measures, analyses, and interpretation: plasma-based neurodegenerative biomarkers, blood autophagy, blood chemistry, genetics, and MRI.

Role: Core Leader (Multiple), 20% effort

NIH RF1 AG056487-01A1 07/01/2018 – 03/31/2023 \$2,650,961

(Engeland, Graham-Engeland)

Integrative biobehavioral and psychosocial risk for cognitive decline in the elderly

This longitudinal study (4 annual data waves) examines how inflammation, lipid signaling, and neurodegenerative biomarkers predict cognitive decline, mild cognitive impairment, and ultimately dementia (e.g., Alzheimer's disease) in 500 participants 70-90 years of age in the Bronx, NY.

Role: PI (Multiple), 30% effort

NIH R21 AG066140-01 (Knight, Engeland) 09/15/2019 – 05/31/2022 NCE \$275,000

Sex hormones, inflammation, and cognitive decline in older men and women

This addition to an ongoing longitudinal study examines, across 3 annual data waves, how sex hormones in the elderly (testosterone, estrogen, estrone) relate to inflammation and predict cognitive decline, mild cognitive impairment, and ultimately dementia (e.g., Alzheimer's disease) in 600 participants 70-90 years of age in the Bronx, NY.

Role: PI (Multiple), 5% effort

NIH R01 MD011575-01A1 (Giurgescu) 01/06/2017 – 07/31/2022 NCE \$2,498,120

Social stressors and inflammation: A mixed methods approach to preterm birth

This mixed method, longitudinal study will be the first to prospectively examine five interrelated factors (social stressors, personal resources, emotional stress, cortisol, and inflammation) that have been related to preterm birth. The study will be conducted with 1500 African American women.

Role: Co-I (PI at Penn State), 10-15% effort

NIH R01 HL153377-01 (Zilioli) 04/01/2021 – 03/31/2026 \$2,619,373

Stress, racism, and cardiovascular risk among urban African American adults: A multilevel, mixed methods approach

Using a mixed methods approach, this study will identify the psychosocial stressors most salient to 500 middle-aged and older African Americans. We will model the daily psychological, behavioral and biological pathways through which stress can exacerbate cardiovascular disease (CVD) risk in this population.

Role: Co-I (PI at Penn State), 10-15% effort

NIH UF1 AG072619-01 (Gamaldo) 08/15/2021 – 07/31/2024 \$1,719,387

Psychosocial and neighborhood mechanisms and consequences of Black-White sleep disparities on cognition

This longitudinal study (6 biannual data waves) will model racial differences in the associations between sleep and cognitive functioning, while accounting for factors such as cumulative/life stress and inflammation. Risk for cognitive decline will be determined.

Role: Co-I, 15% effort

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NIH U01 AG062370-01 (Sliwinski) 09/30/2018 – 05/31/2021 NCE \$1,380,573
Elucidating the necessary components and mechanisms of cognitive training (ENACT)

This study will use two forms of cognitive training to examine how cognitive and psychosocial factors account for the transfer of such training to everyday function in adults aged 45-90. Lifestyle behaviors, biomarkers and neural mechanisms (fMRI) will also be explored.

Role: Co-I, 5% effort

NIH R44 AG056250-03A1 (Gartenberg) 06/01/2020 – 05/31/2022 \$2,478,346
A non-pharmacological multi-modal therapy to improve sleep and cognition and reduce mild cognitive impairment risk

The overall objective of this research is to develop a non-pharmacological means to address sleep deficiencies and well-being in older adults.

Role: Co-I, 5% effort

Proactive Life Inc. (Buxton) 04/01/2020 – 05/31/2022 \$482,877
A non-pharmacological multi-modal therapy to improve sleep and cognition and reduce mild cognitive impairment risk

In conjunction with NIH grant AG056250-03A1 (above), the overall objective of this research is to develop a non-pharmacological means to address sleep deficiencies and well-being in older adults.

Role: Co-I

NIH UL1 TR002014 Penn State CTSI (Mukherjee) 09/01/2019 – 08/31/2021 NCE \$47,300
Neural, Inflammatory and Behavioral Markers of Anhedonia in Treatment Resistant Depression
This study examines the unique and interactive associations between measures of fMRI, MRI, and inflammation with components of depressed mood (e.g., anhedonia) in patients who are non-responsive to antidepressants.

Role: Co-I

PA Tobacco Settlement Fund (TSF)
Junior Faculty Research Scholar Award: Commonwealth Universal Research Enhancement (CURE) Program (Mukherjee) 06/01/2020 – 06/30/2023 \$200,000
A neurobiological model of anticipatory anhedonia: The association of inflammation and reward circuitry dysfunction in treatment resistant depression

This study examines the unique and interactive associations between measures of inflammation (blood) and reward (fMRI) with anticipatory anhedonia in patients who are non-responsive to antidepressants.

Role: Faculty Mentor / Co-I

NIH R03 DK13295951 (Kovacic) 06/01/2022 – 05/31/2024 \$150,000
Brain-gut-genome profiling in connective tissue disorder-related gastrointestinal dysfunction
Pilot study of brain-gut signaling, immune function and transcriptomics in a cohort of adolescents with connective tissue disorders and functional gastrointestinal complaints. Study includes detailed characterization of autonomic function and inflammatory profiles along with gastric motility using a novel gastric MRI protocol.

Role: Consultant

ACTIVE TRAINING AND CONSORTIUM GRANTS

NIH T32 AG049676-01 (Martire, Almeida) 2015 - Present
Psychosocial determinants and biological pathways to healthy aging
Role: Co-I; Faculty Mentor

NIH R25 HL147668-01 (Wray, Kitko) 2019 - Present
Improving access through research and training (IMPACT)
Role: Co-I; Faculty Mentor
<https://impactprogram.psu.edu/>

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NIH T32 HD101390-01 (Noll, Jackson) 05/11/2020 – 04/30/2025
Creating the next generation of scholars in child maltreatment science
Role: Co-I; Faculty Mentor

Penn State University Science Council
Health Challenge (Sliwinski) 02/25/2022 – 02/24/2025 \$600,000
The Geroscience and Dementia Prevention Consortium (GDPC)
Role: Co-I; Faculty Member

GRANTS PENDING REVIEW (Direct costs shown)

NIH U01 DE031647-01 (Fredman) 09/01/2021 – 08/31/2026 \$6,703,890
A couple-based approach to the treatment of posttraumatic stress disorder in Black Americans.
This will be the first study to utilize cognitive-behavioral conjoint therapy (CBCT) for the treatment of PTSD in Black adult couples; this will be done while accounting for relevant socio-cultural risk (e.g., discrimination) and protective factors (e.g., racial identity, spirituality, community ties).
Role: Co-I, 15% effort
Impact Score 56

NIH NIA R03 (E Harrington) 12/01/2022 – 11/30/2024 \$200,000
Prospective memory in everyday life: Lapses and decline in relation to inflammatory and neurodegenerative biomarkers in older adults
This project will extend the ongoing Einstein Aging Study (EAS) P01 to examine prospective memory lapses in association with biomarkers of inflammation and neurodegeneration, and the moderating role of gender.
Role: Co-I, 8% effort

NIH NIA R03 (K Harrington) 12/01/2022 – 11/30/2024 \$100,000
The role of loneliness in cognitive decline and risk for dementia
This project will extend the ongoing Einstein Aging Study (EAS) P01 to examine how self-reported loneliness, via both retrospective report and ecological momentary assessment (EMA), relate to cognitive function and decline in older adults at cross-section and longitudinally.
Role: Co-I, 5% effort

PAST GRANT FUNDING (Direct costs shown)

NIH U01 AG062370-02 (Ross) 07/15/2019 – 05/31/2020 \$250,000
Elucidating the necessary components and mechanisms of cognitive training
This administrative supplement provides funds for additional blood-based biomarkers to be assessed that pertain to brain health, neurodegeneration, and Alzheimer's Disease. Additional funds will cover mobile plans for cell phones and other related costs.
Role: Co-I

NIH R01 AG042595-01A1 (Engeland, Graham) 09/30/2012 – 05/31/2019 \$1,363,648
Inflammatory mediators of stress and cognitive aging
This longitudinal study incorporates blood and saliva sampling and a battery of psychosocial questionnaires (4 annual data waves) into an ongoing prospective study that examines cognitive aging in 320 individuals 25-65 years of age in the Bronx, NY.
Role: PI (Multiple)

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BBH Research Initiative Award (Murdock) 11/05/2018 – 06/30/2019 \$9,185
Cognitive performance and inflammation: Evaluating the role of circulating and stimulated cytokines

This study will provide pilot data on basal and lipopolysaccharide-induced cytokines in *ex vivo* human blood samples, to examine how cognitive abilities, stress, health behaviors and inflammation relate to metabolic syndrome.

Role: Co-I

BBH Research Initiative Award (Murdock) 04/20/2018 – 08/31/2018 \$3,400
Cognitive profiles and metabolic syndrome: Biobehavioral mechanisms explaining increased risk and progression

This study will provide pilot data on mitochondrial dysfunction for a future R01 grant application examining how cognitive abilities, stress, health behaviors and critical biomarkers relate to metabolic syndrome.

Role: Co-I

CTSI Bridges to Translation Award (Engeland) 11/01/2015 – 06/30/2017 \$45,980
Penn State University – NIH UL1 TR002014

Hyperglycemia and impaired healing in medically complex surgical patients

This clinical pilot study examines hyperglycemia development and surgical outcomes in hernia repair patients, with a focus on lipidomics and proteomics aimed at factors critical for tissue repair that are assessed from blood and directly in the wound site (i.e., wound drainage).

Role: PI

University of Sydney 01/01/2015 – 12/31/2016 \$19,541
International Program Development Fund (Edwards)

Healthy aging in a changing climate: Heat wave survival, critical biomarkers and interventions
This pilot project examines the efficacy of lowcost, energy efficient interventions (e.g. electric fans) on mitigating cardiovascular and thermal strain, which lead to a heightened risk of cardiac events in at-risk individuals during heat waves.

Role: Co-I

Social Science Research Institute – CYFC (Noll) 03/01/2014 – 02/28/2016 \$43,000
Penn State University

Daily Stress and Premature Cognitive Aging as Long-term Sequelae of Childhood Sexual Abuse

This grant examined resilience in the face of daily stressors and the extent to which daily stressors exacerbate the impact of an already-compromised Hypothalamic Pituitary Adrenal (HPA) axis.

Role: Consultant

UIC Midwest Roybal Center 10/01/2014 – 09/30/2015 \$50,000
for Health Promotion and Translation (Ezenwa)

Feasibility of a Stress Reduction Intervention Study in Sickle Cell Disease

This clinical pilot study assessed the effects that stress reduction has on pain perception, cortisol levels and cardiovascular function in patients with sickle cell disease. **Role: Co-I**

Wayne State University (Giurgescu) 04/01/2013 – 03/31/2015 \$5,000
College of Nursing

Social stressors, inflammation, and preterm birth in African American women: A pilot

This study examined the role of social stressors and inflammation on preterm birth for African American women in Detroit.

Role: Co-I

College of Nursing Internal Research (Ezenwa) 02/01/2013-01/31/2014 \$10,000
The Feasibility of a Stress Reduction Intervention Study in Sickle Cell Disease

Pilot study that assessed the effects that a guided imagery intervention has on perceived stress, pain perception, and cortisol levels in patients with sickle cell disease.

Role: Co-I

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- UIC Campus Research Board (Ezenwa)** 01/01/2014-12/31/2014 \$20,000
Feasibility of a Stress Reduction Intervention Study in Sickle Cell Disease
This clinical pilot study assessed the effects that stress reduction has on pain perception, cortisol levels and cardiovascular function in patients with sickle cell disease.
Role: Co-I
- Marie Curie Funding Scheme fp7 (Lord)** 11/01/2009–10/31/2013 €3,100,000
European Research Council
Neuroendocrine Networks in Aging – Stress, Immunity, and Mental Health
Study aims: 1) to investigate the associations between lifestyle, psychosocial factors, and markers of immunosenescence in pre-senescent adults (18-65 yrs); 2) to investigate the potential mediating roles of neuroendocrine activity and latent viral infection in these associations.
Role: Consultant
- Social Science Research Institute (Graham)** 10/05/2011–10/04/2013 \$24,748
Penn State University
Inflammatory Mediators of Psychological Stress and Cognitive Aging
This pilot funding enabled sample collection over the first year, and also the analysis of inflammatory biomarkers collected during the first 6 months, in an ongoing longitudinal study of stress and cognitive aging in the Bronx, NY. This ensured that physiological data was not lost prior to R01 funding (see above).
Role: Co-I
- Social Science Research Institute (Graham)** 08/01/2012–07/31/2013 \$4,940
Penn State University
Validation of Salivary to Blood-based Inflammatory Markers and Associations with Psychosocial and Immune Health Indicators
This pilot study will validate various inflammatory biomarkers in saliva to previously obtained values in blood, and also relate them to tissue inflammation during wound healing.
Role: Co-I
- UIC CCTS Pilot Grant 2011 (White-Traut)** 08/01/2011–07/31/2013 \$60,000
Pathways to Preterm Birth: Stress, Inflammation, & Cervical Remodelling
This pilot project has provided additional preliminary data to enhance this group's P01 application for 09/2013 (see above).
Role: Co-I
- NIH R01 DE017686-01 (Marucha)** 03/01/2008–02/28/2013 \$1,250,000
Stress-Impaired Microbial Clearance
This program will study the effects of stress on the immune system, and the role of oxygen on stress-impaired microbial clearance, during wound healing.
Role: Co-I
- NIH R03 NR010608-01 (Giurgescu)** 07/01/2008–06/30/2011 \$100,000
Race-related Stressors and Preterm Birth in African-American Women
This program will examine the relations between psychological and physiological stressors, immune responses and the incidence of preterm birth in low income African-American women.
Role: Co-I
- UIC Wach Fund (Fischer)** 06/01/2009–12/31/2010 \$14,788
Application of Salivary Diagnostics in Patients With and Without Intraoral Lesions
This study will evaluate saliva as a diagnostic tool in assessing oral health in patients near the end of life.
Role: Co-I

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NIH R21 DE018161-01 (Engeland) 05/01/2008–04/30/2010 \$275,000

Clinical Corticosteroid Therapy: Impact on Oral Mucosal Wound Healing

This program seeks to determine the effects of corticosteroid administration upon tissue inflammation and the healing of standardized oral mucosal wounds, and to assess the interactive effects of circulating sex and stress hormones on these healing parameters. These results should have a direct impact upon the prevalence of corticosteroid use in dental surgery.

Role: PI

NIH R21 DE018161-02S1 (Engeland) 06/02/2009–04/30/2010 \$8,600

Administrative Supplements Providing Summer Research Experiences

This application will fund two undergraduate research students for the summer to work on my NIH funded R21 grant. It also provides \$2000 for research supplies.

Role: PI

PUBLICATIONS

* Mentored trainee ** Corresponding author † Co-first author

h-Index = 28 [Google Scholar]

- 1) Harrington E*, Graham-Engeland JE, Sliwinski MJ, Van Bogart K, Mogle JA, Katz MJ, Lipton RB, **Engeland CG** (Preprint). Prospective memory lapses in older adults' daily lives: Connections to inflammation and gender. <https://doi.org/10.31234/osf.io/2cng3>
- 2) Song S, DeMeo NN, Almeida DM, Majd M, **Engeland CG**, Graham-Engeland JE. (In Press) The longitudinal connection between depressive symptoms and inflammation: Mediation by sleep quality. [PLOS One](#).
- 3) Murdock KW, Stowe RP, **Engeland CG**. (In Press) Diminished cellular immunity is associated with executive functioning among middle-aged and elderly adults. [Psychosomatic Medicine](#). PMID: 35420592
- 4) Saadat N, Zhang L, Hyer S, Padmanabhan V, Woo J, **Engeland CG**, Misra D, Giurgescu C. (2022) Psychosocial and behavioral factors affecting systemic inflammation among pregnant African American women. [Brain, Behavior, & Immunity - Health](#). doi: 10.1016/j.bbih.2022.100452 (9 pages). PMID: 35403067
- 5) Graham-Engeland JE, DeMeo N, Jones DR, Mathur A, Smyth JM, Sliwinski MJ, McGrady ME, Lipton RB, Katz MJ, **Engeland CG**. (2022) Individuals with both higher recent negative affect and physical pain have higher levels of C-reactive protein. [Brain, Behavior, & Immunity - Health](#). doi: 10.1016/j.bbih.2022.100431 (9 pages). PMID: 35243409
- 6) Van Bogart K, **Engeland CG**, Sliwinski MJ, Harrington K, Knight EL, Graham-Engeland JE. (2022) The association between loneliness and inflammation: Findings from an older adult sample. [Frontiers in Behavioral Neuroscience](#). doi: 10.3389/fnbehav.2021.801746 (12 pages). PMID: 35087386
- 7) Knight EL*, Majd M, Graham-Engeland JE, Smyth M, Sliwinski MJ, **Engeland CG****. (2022) Depressive symptoms and other negative psychological states relate to *ex vivo* inflammatory responses differently for men and women: Cross-sectional and longitudinal evidence. [Physiology and Behavior](#). 244:113656. doi: 10.1016/j.physbeh.2021.113656 (9 pages). PMID: 34838823
- 8) Giurgescu C, Misra D, Slaughter-Acey J, Gillespie S, Nowak Alexandra, Dove-Medows E, **Engeland CG**, Zenk S, Lydic T, Sealy-Jefferson S, Ford J, Drury S, Stemmer P. (2021) Neighborhoods, racism, stress and preterm birth among African American women: A review. [Western Journal of Nursing Research](#). doi.org/10.1177/01939459211041165 (10 pages).
- 9) Vervoordt SM, Arnett P, **Engeland CG**, Rabinowitz AR, Hillary FG. (2021) Depression associated

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- with APOE status and hippocampal volume but not cognitive decline in older adults aging with traumatic brain injury. Neuropsychology. doi:10.1037/neu0000750 (13 pages). PMID: 34570541
- 10) Knight EL, Rodriguex-Stanley J, Jiang Y, Almeida DM, **Engeland CG**, Zilioli S. (2021) Perceived stress is linked to heightened biomarkers of inflammation via diurnal cortisol in a national sample of adults. Brain, Behavior, and Immunity. 93:206-213. PMID: 33515741
Invited commentary. PMID: 33831472
 - 11) Davis KM, **Engeland CG**, Murdock KW. (2020) Ex vivo LPS-stimulated cytokine production is associated with cortisol curves in response to acute psychosocial stress. Psychoneuroendocrinology. 121:104863 (8 pages). PMID: 32950932
 - 12) Giurgescu C, Zhang L, Price M, Dailey R, Frey H, Walker D, Zenk SN, **Engeland CG**, Anderson CM, Misra DP. (2020) Prenatal cigarette smoking as a mediator between racism and depressive symptoms: The biosocial impact on black births study. Public Health Nursing. 37(5):740-749. PMID: 32734603
 - 13) Woo J, Koenig MD, **Engeland CG**, Kominiarek M, White-Traut R, Yeatts P, Giurgescu C. (2020) Neighborhood disorder predicts lower serum vitamin D levels in pregnant African American women: A pilot study. Journal of Steroid Biochemistry and Molecular Biology. doi: 10.1016/j.jsbmb.2020.105648 (5 pages). PMID: 32142935
 - 14) Jones DR, Smyth JM, **Engeland CG**, Sliwinski MJ, Russell R, Sin NL, Almeida D, Graham-Engeland JE. (2020) Affect variability and inflammatory markers in midlife adults. Health Psychology. 39(8):655-666. PMID: 32324001
 - 15) Yang H*, **Engeland CG**, King TS, Sawyer AM. (2020) The relationship between diurnal variation of cytokines and symptom expression in mild obstructive sleep apnea. Journal of Clinical Sleep Medicine. 16(5):715-723. PMID: 32029067
 - 16) Majd M*, Saunders E, **Engeland CG****. (2020) Inflammation and the dimensions of depression: A review. Frontiers in Neuroendocrinology. doi: 10.1016/j.yfrne.2019.100800 (21 pages). PMID: 31654681
 - 17) **Engeland CG****. (2020) Wound healing. In: Gellman MD, Turner JR (Eds.), Encyclopedia of Behavioral Medicine, 2nd edition. New York: Springer. pp. 2360-2366. ISBN: 978-3030399016 doi:10.1007/987-1-4614-6439-6_502-2
 - 18) Lee S, Stone KL, **Engeland CG**, Lane NE, Buxton OM. (2020) Arthritis, sleep health, and systemic inflammation in older men. Arthritis Care and Research. 72(7):965-973. PMID: 31074577
 - 19) Knight EL*, Majd M*, Graham-Engeland JE, Smyth JM, Sliwinski MJ, **Engeland CG****. (2020) Gender differences in the link between depressive symptoms and *ex vivo* inflammatory responses are associated with markers of endotoxemia. Brain, Behavior, & Immunity - Health. doi: 10.1016/j.bbih.2019.100013 (22 pages). PMID: 34258602
 - 20) Slavish DC, Jones DR, Smyth JM, **Engeland CG**, Song S, McCormack N, Graham-Engeland JE. (2020) Positive and negative affect and salivary markers of inflammation among young adults. International Journal of Behavioral Medicine. 27(3):282-293. PMID: 31222631
 - 21) **Engeland CG****, Bosch JA, Rohleder N. (2019) Salivary biomarkers in psychoneuroimmunology. Current Opinion in Behavioral Sciences. 28:58-65. PMID: 32215283
 - 22) Slavish DC, Graham-Engeland JE, **Engeland CG**, Taylor DJ, Buxton OM. (2018) Insomnia symptoms are associated with elevated C-reactive protein in young adults. Psychology and Health. 33(11):1396-1415. PMID: 30358412

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- 23) Graham-Engeland JE, Sin NL*, Smyth JM, Jones DR, Knight EL*, Sliwinski MJ, Almeida DM, Katz MJ, Lipton RB, **Engeland CG**. (2018) Negative and positive affect as predictors of inflammation: Timing matters. Brain, Behavior, and Immunity. 74:222-230. PMID: 30217538
- 24) Majd M*, Graham-Engeland JE, Smyth JM, Sliwinski MJ, Lipton RB, Katz MJ, **Engeland CG****. (2018) Distinct inflammatory response patterns are evident among men and women with higher depressive symptoms. Physiology and Behavior. 184:108-115. PMID: 29133231
- 25) Pyter LM*, McKim DB, Husain Y, Calero H, Godbout JP, Sheridan JF, Marucha PT, **Engeland CG**. (2018) Effects of dermal wounding on distal primary tumor immunobiology in mice. Journal of Surgical Research. 221:328-335. PMID: 29229147
- 26) Welke L, Thomson J, Koenig MD, Nemeth E, White-Traut R, McFarlin B, Giurgescu C, **Engeland CG**, Kominiarek M, Tussing-Humphreys L. (2017) Iron metabolism in African American women in the second and third trimesters of high-risk pregnancies. Journal of Obstetric, Gynecologic, and Neonatal Nursing. 46(1):148-158. PMID: 27836659
- 27) Giurgescu C, Zenk SN, Templin TN, **Engeland CG**, Kavanaugh K, Misra DP. (2017) The impact of neighborhood conditions and psychological distress on preterm birth in African-American women. Public Health Nursing. 34(3):256-266. PMID: 27891658
- 28) Koenig, MD, McFarlin B, Steffen A, Tussing-Humphreys L, Giurgescu C, **Engeland CG**, Kominiarek M, Strom B, Cieczczak C, O'Brien WD, Norr K, White-Traut R. (2017) Decreased nutrient intake is associated with premature cervical remodeling. Journal of Obstetric, Gynecologic, and Neonatal Nursing. 46(1):123-134. PMID: 27836660
- 29) Gajendrareddy PK, Junges R*, Cygan G, Zhao Y, Marucha PT, **Engeland CG**. (2017) Increased oxygen exposure alters collagen expression and tissue architecture during ligature-induced periodontitis. Journal of Periodontal Research. 52(3):644-649. PMID: 27573480
- 30) Giurgescu C, Zenk SN, **Engeland CG**, Garfield L, Templin TN. (2017) Racial discrimination and psychological wellbeing of pregnant women. The American Journal of Maternal/Child Nursing. 42(1): 8-13. PMID: 27749288
- 31) Pyter LM*, Husain Y, Calero H, McKim DB, Lin H-Y, Godbout JP, Sheridan JF, **Engeland CG**, Marucha PT. (2016) Tumors alter inflammation and impair dermal wound healing in female mice. PLoS ONE. 11(8):e0161537 (1-16). PMID: 27548621
- 32) Giurgescu C, **Engeland CG**, Templin TN, Zenk SN, Koenig MD, Garfield L. (2016) Racial discrimination predicts greater systemic inflammation in pregnant African American women. Applied Nursing Research. 32:98-103. PMID: 27969060
- 33) Dorn LD, Gayles JG, **Engeland CG**, Houts R, Cizza G, Denson LA. (2016) Cytokine patterns in healthy adolescent girls: Heterogeneity captured by variable and person-centered statistical strategies. Psychosomatic Medicine. 78(6):646-656. PMID: 27187849
Invited Commentary. PMID: 27057818
- 34) Ezenwa MO, Yao Y, **Engeland CG**, Molokie RE, Wang ZJ, Suarez ML, Wilkie DJ. (2016) A randomized controlled pilot study feasibility of a tablet-based guided audio-visual relaxation intervention for reducing stress and pain in adults with sickle cell disease. Journal of Advanced Nursing. 72(6):1452-1463. PMID: 26768753
- 35) **Engeland CG*****, Hugo FN†, Hilgert JB, Nascimento GG*, Junges R*, Lim H-J, Marucha PT, Bosch JA. (2016) Psychological distress and salivary secretory immunity. Brain, Behavior, and Immunity. 52(2): 11-17. PMID: 26318411
Invited Commentary. PMID: 26518297

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- 36) Giurgescu C, **Engeland CG**, Templin TN. (2015) Symptoms of depression predict negative birth outcomes in African American women: A pilot study. Journal of Midwifery and Women's Health. 60(5):570-577. PMID: 26461192
Best Research Article of the Year Award 2016 - Journal of Midwifery & Women's Health
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Harrington EE, Graham-Engeland JE, Sliwinski MJ, Van Bogart K, Mogle JA, Katz MJ, Lipton RB, **Engeland CG**. Prospective memory lapses in older adults' daily lives: Connections to inflammation and gender. Psychology of Aging.

Harrington EE, Gamaldo AA, Sliwinski MJ, Hakun JG, Buxton O, Katz MJ, Derby CA, Foor K, Engeland CG, Graham-Engeland JE. Characteristics of perceived discrimination and everyday cognitive performance among older adults. The Gerontologist.

National / International Conferences (* Presenter)

- 1) Wright MA*, Giurgescu C, Misra DP, **Engeland CG**. (2022) Neighborhood racial composition: Associations with macrophage migration inhibitory factor (MIF) and interferon-gamma (IFN- γ) among pregnant African American women. (Psychoneuroimmunology Research Society [PNIRS], Zurich Switzerland)
- 2) Harrington EE*, Graham-Engeland JE, Sliwinski MJ, Katz MJ, Van Bogart K, Mogle J, Lipton RB, **Engeland CG**. (2022) Everyday prospective memory lapses and inflammation in older adults. (The Gerontological Society of America [GSA], Indianapolis IN)
- 3) **Engeland CG***, Katz MJ, Qin J, Wang C, Ashton NJ, Blennow K, Zetterberg H, Graham-Engeland JE, Pavlovic J, Derby CA, Lipton RB. (2022) Blood-based biomarkers for neurodegeneration in non-Hispanic Black and White older adults: Results from the Einstein Aging Study (EAS). (Alzheimer's Association International Conference [AAIC], San Diego CA)
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- 5) Harrington EE*, Gamaldo AA, Sliwinski MJ, Hakun JG, Katz MJ, Derby CA, **Engeland CG**, Graham-Engeland JE. (2022) Characteristics of discrimination and associations with cognition among Black and White older adults. (Cognitive Aging Conference [CAC], Atlanta GA)
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 - 10) Vervoordt S*, Arnett P, **Engeland CG**, Hillary F. (2021) Examining depression as a marker for decline in older adults with a history of moderate to severe traumatic brain injury: Genetic risk, cognitive deficits, and hippocampal volumetric changes. (The International Neuropsychology Society [INS], Virtual Meeting - February 2021)
 - 11) Saadat N*, Zhang L, Padmanabhan V, **Engeland CG**, Misra D, Giurgescu C. (2021) Systemic inflammation among pregnant African American women is related to depressive symptoms and intimate partner violence. (Endocrine Society, Virtual Meeting - March 2021)
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 - 13) Knight EL*, Majd M, Graham-Engeland JE, **Engeland CG**. (2020) Depressive symptoms and other negative psychological states predict *ex vivo* inflammatory responses over time: The role of gender. (APS, Virtual meeting – December 2020)
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 - 14) Mattern BC*, Marucha PT, **Engeland CG**. (2020) Fear of medical procedures speeds mucosal wound closure. (APS, Long Beach CA)
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 - 18) Woo J*, Giurgescu C, Koenig MD, **Engeland CG**, Kominiarek MA, White-Traut R. (2019) Neighborhood disorder predicts lower serum vitamin D levels in pregnant African American women. (International Scientific Conference on Vitamin D, New York City NY)
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- 23) Slavish DC, Graham-Engeland JE, **Engeland CG**, Taylor DJ, Buxton OM. (2018) Insomnia symptoms and stress-related vulnerability to sleep disturbance are associated with elevated inflammation. (APS, Louisville Kentucky)
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- 26) Majd M*, Greaney JL, Saunders EF, **Engeland CG**. (2018) Inflammatory correlates of specific symptoms of depression. (ASCP, Miami FL)
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- 44) Manos MP*, Monestero AP, da Rocha JM, Gajendrareddy PK, **Engeland CG**. (2015) Oral mucosal healing and inflammation in patients with periodontal disease. (International Association for Dental Research [IADR], Boston MA)
- National Finalist for DENTSPLY/Caulk Student Clinician Research Award
- 45) **Engeland CG***, Monestero AP, da Rocha JM, Manos MA, Gajendrareddy PK. (2014) Inflammation, wound healing, and periodontal disease. Brain, Behavior, and Immunity, 40 S: e6-e7. (PNIRS, Philadelphia PA)
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- 48) Qi S*, Munoz E, Graham-Engeland, JE, **Engeland CG**, Smyth JM, Sciegaj M, Sliwinski MJ. (2014) The association between social isolation and chronic disease burden. (Gerontological Society of

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- 60) Yang L*, Marucha PT, **Engeland CG**. (2011) Isolating mice slows wound healing. Brain, Behavior, and Immunity, 25 S2: s192. (PNIRS, Chicago IL)
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- 62) Giurgescu C*, **Engeland CG**, Zenk SN, Dancy BL (2011) Race-related stressors, inflammation and preterm birth in African American women. (COGI, Paris France)
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- 68) **Engeland CG***, Marucha PT. (2010) Corticosteroid modulation of oral mucosal wound healing. Psychosomatic Medicine, 72(3): A54. (APS, Portland OR)
- 69) **Engeland CG***, Diab H, Marucha PT. (2009) Older individuals exhibit altered gene expression in wounded mucosa: A mechanism for age-impaired healing? Brain, Behavior, and Immunity, 23 S2: s35. (PNIRS, Breckenridge CO)
- 70) **Engeland CG***, Fang Z, Marucha PT. (2009) Examination stress causes hyper-inflammation of the oral mucosa and slows healing. Psychosomatic Medicine, 71(3): A114. (APS, Chicago IL)
- APS Press Release
- 71) Edwards KM*, Bosch JA, **Engeland CG**, Cacioppo JT, Marucha PT. (2009) Elevated macrophage migration inhibitory factor (MIF) and flattened diurnal cortisol in individuals reporting high levels of depressive symptoms. Psychosomatic Medicine, 71(3): A134. (APS, Chicago IL)
- 72) Marucha PT*, Crosby TR, Bosch JA, **Engeland CG**. (2009) Salivary growth factors and risk factors for impaired mucosal healing. Psychosomatic Medicine, 71(3): A47. (APS, Chicago IL)
- 73) **Engeland CG***, Fang Z, Marucha PT. (2009) Students during examinations exhibit hyper-inflammation and slower healing of mucosal tissues. (Gordon Conference: Tissue Repair and Regeneration, New London NH)
- 74) Swayamprakasam, L*, Marucha PT, **Engeland CG**. (2009) Oral mucosal wound healing: Effect of psychological stress on gene expression for angiogenic factors. (Volpe Prize Competition, Columbus OH)
- National Finalist for Best Clinical Research in Periodontology
- 75) Diab H*, Marucha PT, **Engeland CG**. (2009) Older individuals exhibit early delays in gene expression in wounded oral mucosal tissue: A possible mechanism for age-impaired healing (ADA, Honolulu HI).
- National Finalist for DENTSPLY/Caulk Student Clinician Research Award
- 76) **Engeland CG***, Fang Z, Marucha PT. (2008) University examinations cause hyper-inflammation of mucosal tissues. Brain, Behavior, and Immunity, 22(4) S1: s28 (PNIRS, Madison WI)
- 77) Zyaei B*, **Engeland CG**, Marucha PT. (2008) Mucosal wound healing: The relationship with human sex hormones. Brain, Behavior, and Immunity, 22(4) S1: s29 (PNIRS, Madison WI)
- 78) Marucha PT*, Crosby TR, Bosch JA, **Engeland CG**. (2008) Gender, aging, stress, and salivary growth factors in mucosal wound healing. Brain, Behavior, and Immunity, 22(4) S1: s44 (PNIRS, Madison WI)
- 79) Marucha PT*, Fang Z, **Engeland CG**. (2008) Stress dysregulates plasma and tissue cytokines during human mucosal healing. Wound Repair and Regeneration, 16 (2): A49. (Wound Healing Society [WHS], San Diego CA)
- 80) **Engeland CG***, Fang Z, Marucha PT. (2008) The effects of stress on inflammation may be tissue specific. (International Society for Neuroimmunomodulation, Rio de Janeiro, Brazil)

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- 81) Marucha PT*, Fang Z, **Engeland CG**. (2008) Stress dysregulates plasma cytokines during human mucosal healing. (IADR, Dallas TX)
- 82) **Engeland CG***, Fang Z, Marucha PT. (2007) Examination stress leads to hyper-inflammation of tissue and slower wound healing. Society for Neuroscience (SFN) Abstracts, 33: Program No. 733.16 (SFN, San Diego CA)
- 83) **Engeland CG***, Marucha PT. (2007) Biomarkers in blood predict wound healing rates. Brain, Behavior, and Immunity, 21(4) S1: (PNIRS, Arcachon France)
- 84) Burke JJ*, **Engeland CG**, Fang Z, Marucha PT. (2007) Age and gender effects on expression of angiogenic factors in human oral wound healing. (Volpe Prize Competition, Columbus OH)
- National Runner-up for Best Clinical Research in Periodontology
- 85) Rivera DS*, Fang Z, **Engeland CG**, Bosch JA, Marucha PT. (2007) Dysphoric females overexpress chemokines and adhesion molecules during wound healing. (IADR, New Orleans LA)
- 86) **Engeland CG***, Fang Z, Marucha PT. (2006) Examination stress relates to higher inflammatory cytokine expression and larger wound sizes in the oral mucosa. Brain, Behavior, and Immunity, 20(3) S1: s19-20 (PNIRS, Miami FL)
- 87) Friedstat JS, Marucha PT, Weber RJ, **Engeland CG***. (2006) Morphine delays wound healing in restraint stressed mice. Brain, Behavior, and Immunity, 20(3) S1: s22 (PNIRS, Miami FL)
- 88) Marucha PT*, Fang Z, **Engeland CG**. (2006) Stress-impaired mucosal wound healing in humans involves an early overexpression of chemokines and E-selectin. Brain, Behavior, and Immunity, 20(3) S1: s46 (PNIRS, Miami FL)
- 89) **Engeland CG***, Bosch JA, Cacioppo JT, Marucha PT. (2005) Age, gender and cortisol: Modulating effects on mucosal wound healing. SFN Abstracts, 31: Program No. 303.7 (SFN, Washington DC)
- SFN Press Release
- 90) Marucha PT*, **Engeland CG**, Shelton SE, Haraldsson HM, Quan N, Kalin NH. (2005) Amygdala lesions increase, while stress decreases, chemokine gene expression in the wound tissue of rhesus monkeys. SFN Abstracts, 31: Program No. 184.8 (SFN, Washington DC)
- 91) **Engeland CG***, Kalin NH, Shelton SE, Haraldsson MH, Marucha PT. (2005) Amygdala lesions increase IL-8 and MIP-1 α gene expression in dermal wound tissue. Wound Repair and Regeneration, 13(2): A44. (WHS, Chicago IL)
- 92) Sharma R*, **Engeland CG**, Fang Z, Marucha PT. (2005) Early pro-inflammatory cytokine expression during mucosal wound healing. Wound Repair and Regeneration, 13(2): A10. (WHS, Chicago IL)
- Award Finalist for best graduate research
- 93) Crosby TR*, **Engeland CG**, Bosch JA, Marucha PT. (2005) Depressed and lonely individuals express lower EGF and VEGF in saliva. Wound Repair and Regeneration, 13(2): A42. (WHS, Chicago IL)
- 94) **Engeland CG***, Kalin NH, Shelton SE, Haraldsson HM, Marucha PT. (2005) Amygdala lesions increase IL-8 and MIP-1 α gene expression during tissue healing in primates. Brain, Behavior, and Immunity, 19(4) S1: e18-e19. (PNIRS, Denver CO)
- 95) Regis LA*, **Engeland CG**, Bosch JA, Cacioppo JT, Marucha PT. (2005) Depression symptom scores predict altered pro-inflammatory cytokine release and glucocorticoid resistance in non-depressed individuals. Brain, Behavior, and Immunity, 19(4) S1: e60-e61 (PNIRS, Denver CO)
- 96) Sharma R, **Engeland CG**, Fang Z, Marucha PT*. (2005) Excessive inflammation in females and older

ENGELAND, CG

- adults: relationship to delayed mucosal wound healing. Brain, Behavior, and Immunity, 19(4) S1: e64 (PNIRS, Denver CO)
- 97) Regis L*, **Engeland C**, Bosch J, Cacioppo J, Marucha P. (2005) Glucocorticoid resistance: A potential mechanism for impaired oral wound healing. (International Academy of Periodontology, Salvador Brazil)
- 98) **Engeland CG***, Cacioppo JT, Marucha PT. (2004) Stress hormones modulate the healing rates of oral wounds. Brain, Behavior, and Immunity, 18(3) S1: (PNIRS, Titisee Germany)
- 99) Marucha P*, **Engeland C**, Bosch J, Chou J, Cacioppo J. (2004) Adults with depressive symptoms have delayed healing and impaired angiogenic growth factor expression. Brain, Behavior, and Immunity, 18(3) S1: (PNIRS, Titisee Germany)
- 100) Marucha PT*, **Engeland CG**, Cacioppo JT. (2004) Wound healing is delayed in women and in the aged: A potential role for the HPA axis. Wound Repair and Regeneration, 12(2): A21. (WHS, Atlanta GA)
- 101) **Engeland CG***, Cacioppo JT, Marucha PT. (2004) Modulation of oral wound healing: A role for HPA activity. (International Behavioral Neuroscience Society [IBNS], Key West FL)
- 102) **Engeland CG***, Cacioppo JT, Marucha PT. (2004) Oral wound healing is impeded in women and in the aged: A potential role for stress hormones. (Midwest Regional Student Dental Research Conference, Iowa City IA)
- 103) **Engeland CG***, Cacioppo JT, Bosch JA, Marucha PT. (2003) Oral wound healing is delayed in the aged and in women. Brain, Behavior, and Immunity, 17(3): 173. (PNIRS, Amelia Island FL)
- 104) **Engeland CG***, Saber AJ, Ossenkopp K-P, Kavaliers M, Cain DP. (2002) Chronic icv infusion of lipopolysaccharide (LPS) elicits partial tolerance to peripheral LPS but does not alter water maze performance in rats. SFN Abstracts, 28: Program No. 875.14. (SFN, Orlando FL)
- 105) Franklin AE, **Engeland CG**, Kavaliers M, Ossenkopp K-P*. (2002) Day-night variations in the development of tolerance to and the hypoactivity effects of lipopolysaccharide in rats. SFN Abstracts, 28: Program No. 773.8. (SFN, Orlando FL)
- 106) Ossenkopp K-P*, Tenk CM, Martin L, **Engeland CG**, Kavaliers M. (2002) An automated place preference conditioning procedure using the Digiscan animal activity monitor. SFN Abstracts, 28: Program No. 875.16. (SFN, Orlando FL)
- 107) Tenk CM*, **Engeland CG**, Kavaliers M, Ossenkopp K-P. (2002) Place aversion conditioning and activity effects of LiCl in rats: Multivariate assessment. SFN Abstracts, 28: Program No. 875.17. (SFN, Orlando FL)
- 108) **Engeland CG***, Saber AJ, Cain DP, Ossenkopp K-P. (2002) The effects of chronic lipopolysaccharide-induced neuroinflammation on locomotor activity and water maze performance in rats. (IBNS, Capri Italy)
- 109) Ossenkopp K-P, Anderson S, **Engeland CG***, Kavaliers M. (2002) Influence of sex and breeding status on the behavior of meadow voles in the automated Digiscan light-dark anxiety test. (IBNS, Capri Italy)
- 110) Anderson S, **Engeland CG***, Kavaliers M, Ossenkopp K-P. (2002) Effects of a brief exposure to fox odor on anxiety and locomotor activity levels in the light-dark test in male and female meadow voles. (IBNS, Capri Italy)

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- 111) Franklin AE, **Engeland CG***, Kavaliers M, Ossenkopp K-P. (2002) Hypoactivity and behavioral tolerance to lipopolysaccharide are differentially expressed across the light and dark periods in male and female rats. (IBNS, Capri Italy)
- 112) **Engeland CG***, Kavaliers M, Ossenkopp K-P. (2001) Stage of the estrous cycle modulates the development of tolerance to LPS-induced hypoactivity in the rat. SFN Abstracts, 27: Program No. 844.1. (SFN, San Diego CA)
- 113) Ossenkopp K-P*, Zaki KA, **Engeland CG**. (2001) Sex differences in sensitization of locomotor behaviors in rats following repeated injections of the D2 agonist, quinpirole. SFN Abstracts, 27: Program No. 648.5. (SFN, San Diego CA)
- 114) Franklin AE*, **Engeland CG**, Kavaliers M, Shivers RR, Ossenkopp K-P. (2001) Day-night differences in endotoxin-induced hypoactivity and the development of behavioral tolerance. SFN Abstracts, 27: Program No. 843.1. (SFN, San Diego CA)
- 115) **Engeland CG***, Kavaliers M, Ossenkopp K-P. (2001) Endotoxin-induced locomotor decrements are critically mediated by time of day in male and female rats. Brain, Behavior, and Immunity, 15(2): 146-147. (PNIRS, Utrecht Netherlands)
- 116) **Engeland CG***, Kavaliers M, Ossenkopp K-P. (2001) Female sex hormones modulate the development of tolerance to LPS-induced activity decrements in naturally cycling rats. (PNIRS, Utrecht Netherlands)
- 117) **Engeland CG***, Kavaliers M, Ossenkopp K-P. (2001) The development of tolerance to LPS-induced hypoactivity in the rat varies across the estrous cycle. (IBNS, Cancun Mexico)
- 118) Ossenkopp K-P, Zaki KA, **Engeland CG***. (2001) Sensitization of locomotor behaviors with repeated quinpirole treatments: A model of compulsive behavior? (IBNS, Cancun Mexico)
- 119) **Engeland CG***, Ossenkopp K-P, Kavaliers M. (2000) Reproductive status alters the development of tolerance to LPS-induced hypoactivity in meadow voles. (Canadian Symposium on Neuroimmune Biology, Winnipeg MB)
- 120) **Engeland CG***, Kavaliers M, Ossenkopp K-P. (2000) Time of day plays a critical role in the hypoactivity induced by lipopolysaccharide in male and female rats. SFN Abstracts, 26: 1180. (SFN, New Orleans LA)
- 121) Ossenkopp K-P*, Krieger D, Kent WDT, Cross-Mellor SK, **Engeland CG**. (2000) Reduced alcohol intake in rats chronically treated with disulfiram (antabuse). SFN Abstracts, 26: 1527. (SFN, New Orleans LA)
- 122) **Engeland CG***, Kavaliers M, Ossenkopp K-P. (2000) Tolerance to LPS-induced hypoactivity is affected by reproductive status in female, but not male meadow voles. Brain, Behavior, and Immunity, 14(2): 93. (PNIRS, Wilmington NC)
- 123) **Engeland CG***, Ossenkopp K-P, Kavaliers M. (2000) Reproductive status affects the development of behavioral tolerance to lipopolysaccharide in female, but not male meadow voles: A multivariate assessment of locomotor activity. (IBNS, Denver CO)
- 124) **Engeland CG***, Ossenkopp K-P, Kavaliers M. (1999) Singular and interactive effects of lipopolysaccharide and muramyl dipeptide on locomotor activity in female rats. (IBNS, Nancy France)
- 125) **Engeland CG***, Kavaliers M, Ossenkopp K-P. (1999) Changes in spontaneous locomotion induced by gram-negative and gram-positive bacterial compounds in female rats. SFN Abstracts, 25(2): 1446. (SFN, Miami Beach FL)

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- 126) **Engeland CG***, Ossenkopp K-P, Kavaliers M. (1999) Singular and interactive effects of lipopolysaccharide and muramyl dipeptide on locomotor activity in female rats. (IBNS, Nancy France)
- 127) **Engeland CG***, Ossenkopp K-P, Kavaliers M. (1998) Singular and interactive effects of lipopolysaccharide and muramyl dipeptide on locomotor behavior in rats. *SFN Abstracts*, 24(2): 2075. (SFN, Los Angeles CA)
- 128) **Engeland CG***, Ossenkopp K-P, Kavaliers M. (1998) The effects of lipopolysaccharide and muramyl dipeptide on open field behaviour in rats. *Journal of Neuroimmunology*, 90(1): 39. (International Society of Neuroimmunology, Montreal PQ)
- 129) **Engeland CG***, Ossenkopp K-P, Kavaliers M. (1998) The effects of bacterial agents on open field behaviour in rats. (Brain, Behaviour and Cognitive Sciences, Ottawa ON)
- 130) **Engeland CG***, Ossenkopp K-P, Kavaliers M. (1998) The effects of lipopolysaccharide (LPS) and muramyl dipeptide (MDP) on open field activity in rats. (IBNS, Richmond VA)

CONFERENCE SYMPOSIA (* Presenter)

Engeland CG* (*Invited speaker*) (2022) Pros and cons of performing research at an intersection of multiple disciplines. In Johnson KB (Chair): *Building and Leveraging Community Partnerships that Embrace Diversity, Enrich Discovery, and Reimagine Aging*. Emerging Scholars and Professional Organization (ESPO) Presidential Symposium. (GSA, Indianapolis IN)

Engeland CG* (*Chair*) (2021) *Preventing cognitive aging and dementia*. (Academy of Behavioral Medicine Research [ABMR], Scotts Valley CA)

Graham-Engeland JE*, **Engeland CG**, DeMeo N, VanBogart K. (2021) Negative mood in daily life as a predictor of inflammation: A stress story. In Graham-Engeland JE (Chair): *The interaction between cortisol and the immune system in health and disease*. (Invited plenary session for the International Society of Psychoneuroendocrinology [ISPNE], Virtual Conference)

Engeland CG* (*Discussant*) (2020) In Szabo YZ, Slavish DC (Co-Chairs): *Stress, health, and salivary markers of inflammation: An update and opportunities for future research*. (American Psychosomatic Society [APS], Long Beach CA)

Knight EL*, Majd M, Graham-Engeland JE, Smyth JM, Sliwinski MJ, **Engeland CG**. (2020) Gender differences in the link between depressive symptoms and ex vivo inflammatory responses are associated with markers of endotoxemia. In Juster R-P (Chair): *Gendered adrenals and guts?: Sex and gender roles in relation to cortisol reactivity and microbiome health*. (APS, Long Beach CA)

Engeland CG*, Marucha PT, Gajendrareddy PK. (2018) Stress, inflammation, and mucosal tissue repair. In Broadbent E (Chair): *How stress affects wound healing: Hormones, cytokines, gene expression, and immune cells*. (International Congress of Behavioral Medicine [ICBM], Santiago Chile)

Engeland CG*, Smyth J, Slavish D, Graham JE. (2013) Lessons learned from the bench: Relating salivary to blood-based inflammatory markers. In Graham JE (Chair), **Engeland CG**, Smyth J (Co-Chairs): *Beyond salivary cortisol: Salivary biomarkers of immune function and stress at the cutting edge*. (APS, Miami FL)

Engeland CG*, Yang L, Pyter LM, McKenzie C. (2012) Isolation stress: Rethinking the mechanisms of stress-impaired healing. In Walker FR (Chair): *Stress, inflammation, neuroinflammation and behavior: Causes, consequences and treatment*. (International Behavioral Neuroscience Society [IBNS], Kona HI)

FEATURED SPEAKER - NATIONAL

- 2019: **Psychological stress, wound healing, and mucosal immunity.** (Children's Research Institute, Children's Hospital of Wisconsin, Milwaukee WI)
- 2018: **Psychological stress and wound healing.** (Psychology Dept., University of Texas, El Paso TX)
- 2016: **The effects of psychological stress on wound healing and mucosal immunity.**
(Family Medicine Seminar Series, Mount Nittany Medical Center, State College PA)
- 2015: **Things the oral cavity can tell us about mucosal and systemic immunity.**
(Regenerative Sciences Seminar, Center for Wound Healing, UIC, Chicago IL)
- 2015: **Stress and inflammation: Interpreting measures from the oral cavity.**
(Institute for Behavioral Medicine Research, Ohio State Wexner Medical Center, Columbus OH)
- 2015: **Stress and inflammation: What can we learn from wound healing and saliva?**
(Noll Seminar Lecture, PSU, University Park PA)
- 2015: **Differentiating between types of dementia: What if it's not Alzheimer's?**
(Geriatric Interest Network – Spring Conference, Altoona PA)
- 2015: **Biodemography of exceptional longevity.**
(22nd Annual Methodology Workshop – Population Research Institute, PSU, University Park PA)
- 2015: **Mucosal immunology and tissue repair.**
(Risk of Adolescence & Mucosal Injury in HIV Susceptibility, NIH/NIAID Workshop, Rockville MD)
- 2014: **Influence of stress, inflammation, and gender on surgical wound healing.**
(American Association of Endodontists (AAE) Annual Meeting, Washington DC)
- 2014: **Stress and wound healing.** (CHHD/CON Seminar Series, PSU, University Park PA)
- 2013: **Stress, inflammation, and tissue repair.**
(Dept. Microbiology & Immunology, Milton S. Hershey Medical Center, Hershey PA)
- 2013: **Psychological stress: Effects on inflammation and tissue repair.**
(Dept. Microbiology & Immunology, Loyola University, Chicago IL)
- 2013: **Psychological stress & tissue repair.** (Dept. Anatomy & Cell Biology, Rush Hospital, Chicago IL)
- 2013: **Stress, inflammation and wound healing.** (Wound Healing Center, UIC, Chicago IL)
- 2012: **Inflammation, stress, and healing.** (Dept. of Physical Therapy, UIC, Chicago IL)
- 2010: **Factors which modulate mucosal healing.**
(Advances in Cancer Detection & Therapeutics, Seminar Series, Northern IL Univ., DeKalb IL)
- 2009: **Health disparities in oral mucosal healing.** (Chicago Section of the IADR, Chicago IL)
- 2009: **Health disparities in oral mucosal healing.** (Behavior & Health Seminar Series, UIC, Chicago IL)
- 2007: **Oral wound healing: Stress and inflammation.**
(Academy of Behavioral Medicine Research, Park City UT)
- 2007: **Stress and wound healing.** (Kinesiology & Nutrition, Departmental Series, UIC, Chicago IL)

FEATURED SPEAKER - INTERNATIONAL

- 2021: **How stress affects tissue repair and immunity in the oral cavity.** (Department of Periodontics and Oral Medicine, University of Pretoria, Pretoria, South Africa)
- 2018: **Effects of social isolation on wound healing and immunity in male and female mice.**
(Swiss Laboratory Animal Science Association [SGV], Lausanne Switzerland)
- 2009: **Stress and mucosal healing.** (Children's Hospital, Dept. of Immunology, Utrecht, Netherlands)
- 2008: **Stress, age, gender: Modulation of mucosal healing.**
(Universidade Federal do Rio Grande do Sul, School of Dentistry, Porto Alegre, Brazil)

MEDIA COMMENTARY

- Interviewed as scientific expert for Altoona Mirror - Vaccines important as one ages. Feb 4, 2018
- Interviewed on Alzheimer's disease for WTAJ-TV News – Healthcast. Aired April 24, 2015
- Interviewed as scientific expert for Labrinth on Dutch TV network VPRO. Aired April 14, 2013
- Interviewed as scientific expert for Bottom Line's Daily Health News, July 16, 2009
<http://www.bottomlinepublications.com/content/article/health-a-healing/stress-slows-wound->

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healing

- Interviewed as scientific expert for Health magazine, Article in Issue: June 2007, p. 90

PROFESSIONAL MEMBERSHIPS (INTERNATIONAL SOCIETIES)

Fellow of the Academy of Behavioral Medicine Research (ABMR)	2019 - Present
American Psychosomatic Society (APS)	2010 - Present
Federation of Associations in Behavioral and Brain Sciences (FABBS)	2019 - Present
Gerontological Society of America (GSA)	2020 - Present
International Behavioral Neuroscience Society (IBNS)	1998 - Present
International Society of Behavioral Medicine (ISBM)	2019 - Present
International Society to Advance Alzheimer's Research and Treatment (ISTAART)	2022 - Present
Psychoneuroimmunology Research Society (PNIRS)	1999 - Present
Society for Neuroscience (SFN)	1998 - Present
Wound Healing Society (WHS)	2008 - Present

EDITORIAL BOARD (IF = impact factor)

Brain, Behavior, & Immunity - Health (IF - not yet determined)	2019 - Present
Brain, Behavior, and Immunity (IF 7.22)	2016 - Present
Health Psychology (IF 3.46)	2011 - 2014
Encyclopedia of Behavioral Medicine <i>As an author of a section in this Encyclopedia (Editions I and II), I serve as a consulting editor.</i>	2012 - Present

SCIENTIFIC REVIEWER (Ad-Hoc) (40 journals)

AIDS Care; Behavioural Brain Research; Biological Psychology; Brain, Behavior, and Immunity; Brain, Behavior, & Immunity - Health; Brain Sciences; British Journal of Health Psychology; Cellular and Molecular Life Sciences; Clinical and Experimental Pharmacology and Physiology; European Journal of Integrative Medicine; Frontiers in Surgery; Health Psychology; Hormones and Behavior; Human Immunology; International Journal of Behavioral Medicine; International Journal of Neuropsychopharmacology; Journal of Affective Disorders; Journal of Cell Biology; Journal of Dental Education; Journal of Endocrinology; Journal of Gerontology: Psychological Sciences; Journal of Integrative Neuroscience; Journal of Neuroimmunology; Journal of Psychosomatic Research; Journal of Wound Care; Nature Reviews Immunology; Neurobiology of Aging; Neuroimmunomodulation; Obesity; OBM-Neurobiology; Pharmacology, Biochemistry and Behavior; Physiology & Behavior; PLOS ONE; Proceedings of the National Academy of Sciences; Psychoneuroendocrinology; Psychosomatic Medicine; Scientific Reports; Vaccine; Women's Health Issues; Wound Repair and Regeneration

GRANT REVIEWS – REGIONAL

Penn State University Commonwealth Campus

Faculty Grant Writing Workshop (2021)

Penn State University

Clinical and Translational Science Institute (CTSI) – Grant applications (2016)

Fellowship Review – UIC

Chancellor's Graduate Research Fellowship applications, Graduate College (2011, 2012)

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GRANT REVIEWS - NATIONAL

NASA Johnson Space Center, Human Research Program (Artemis Mission)

Merit evaluation of a study that will investigate aspects of astronaut immunity within the unique constraints of biosample (saliva) collection that are planned for missions to the Moon (2021, 2022)

Department of Defense Military Operational Medicine Research Program (MOMRP) Review Panel

Review of applications for Psychological Health and Readiness (PHR) of the 2021 MOMRP (2020)

NIH NIAID Grant Review Panel

Review of applications submitted under RFA "Risk of Adolescence and Injury in HIV Susceptibility" (2016)

Department of Defense Gulf War Illness (GWI) Review Panel

Review of applications for GWI Clinical Partnership, Epidemiology, and Treatment Evaluation (2016)

NIH Steering Committee

Office of Research on Women's Health (ORWH): 2009

GRANT REVIEWS - INTERNATIONAL

Research Institute of Medical and Health Sciences, University of Sharjah, United Arab Emirates

Project Grant applications (2022)

Committee on Research and Development, Education University of Hong Kong

Research Grants Council's General Research Fund / Early Career Scheme applications (2016)

Auckland Medical Research Foundation, New Zealand

Project Grant applications (2014)

SERVICE AT CONFERENCES * Founded this ongoing annual research conference.

President-Elect (Elected)	Psychoneuroimmunology Research Society (PNIRS): 2022-2023
Board of Directors (Elected)	PNIRS: 2015-2018
Scientific Affairs Committee	PNIRS: 2005-2007, 2010-2011, 2016-2017
Training Committee	PNIRS: 2015-2017
Membership Committee	PNIRS: 2016-2018
Financial Committee	PNIRS: 2012-2015
Membership & Communications Committee	Intl. Behavioral Neuroscience Society (IBNS): 2012-2015
Scientific Program Committee	American Psychosomatic Society (APS): 2009
Student Representative (Elected)	IBNS: 2001-2002

Co-Organizer 18th Annual Meeting of the PNIRS, Chicago IL, June 8-11 2011

Head Organizer* 4th Annual Illinois Brain Behavior & Immunity Meeting, Chicago IL, Dec 2-3 2011
3rd Annual Illinois Brain Behavior & Immunity Meeting, Chicago IL, Dec 3-4 2010
2nd Annual Illinois Brain Behavior & Immunity Meeting, Chicago IL, Dec 5-6 2009

COMMITTEE POSITIONS * Founded this ongoing annual research conference.

College – Chairperson

Sabbatical Leave Review Committee PSU College of Health and Human Development: 2021

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**Biological and Life
Sciences Research Group
Post-Doctoral Research Forum
(Sole Organizer - Monthly)**

PSU College of Health and Human Development: 2017-2019

UIC College of Dentistry, 2005-2008

College – Member

**Nursing Research
PhD Council
MSN Council
Graduate Affairs Committee
Sabbatical Leave Review Committee
Search Committee – CIHRI Director
Task Force – Center for
Individualized Health
Research and Intervention (CIHRI)
Search Committee – Open Rank
Executive Committee (Elected)
Faculty Bylaws Ad Hoc Committee
Diversity Advisory Committee
Diversity Standards Committee
Graduate Affairs Committee
Student Representative (Elected)**

PSU College of Nursing: 2014-Present
PSU College of Nursing: 2015-2021
PSU College of Nursing: 2015-2021
PSU College of Nursing: 2014-2019
PSU College of Health and Human Development: 2020
PSU College of Health and Human Development: 2017-2018
PSU College of Health and Human Development: 2017

PSU College of Nursing: 2014
UIC College of Dentistry: 2010-2012, 2012-2013
UIC College of Dentistry: 2011-2013
UIC College of Dentistry: 2011-2013
UIC College of Dentistry: 2008-2011
University of Western Ontario (UWO): 2000-2001, 2001-2002

Department – Chairperson

**Search Committee – Open Rank
(Substance Abuse)
Research Committee
Founder's Day Committee*
Colloquium Committee (BBH 590)**

PSU Dept. Biobehavioral Health: 2018-2019

PSU Dept. Biobehavioral Health: 2017-2019, 2020-2021

PSU Dept. Biobehavioral Health: 2015-2019

PSU Dept. Biobehavioral Health: 2014-2017

Department – Member

**Graduate Program
Research Committee
Undergraduate Program Committee
Advisory Committee (Elected)
Executive Committee (Elected)
Search Committee – Open Rank
Graduate Studies Committee**

PSU Dept. Biobehavioral Health: 2021-2022

PSU Dept. Biobehavioral Health: 2016-2017

PSU Dept. Biobehavioral Health: 2013-2017

PSU Dept. Biobehavioral Health: 2016

PSU Dept. Biobehavioral Health: 2014-2015

PSU Dept. Biobehavioral Health: 2014

UIC Program of Neuroscience: 2009-2013

AWARDS AND COMPETITIVE SCHOLARSHIPS (* Canadian dollars)

Name of Award	Value/Year	Type	Location	Held/Awarded
Janet Williamson Award for Excellence in Teaching (Nursing)		Institutional	PSU	04 / 2021
Journal of Midwifery & Women's Health Best Research Article of the Year		International	PSU	05 / 2016
Faculty Scholarship Award (Research)	\$1,000	Institutional	UIC	02 / 2013
PNIRS Research Scholars Award	\$1,000	International	UIC	06 / 2005

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PNIRS Research Scholars Award	\$1,000	International	UIC	05 / 2004
1st Place Postdoctoral Research	\$ 150	Institutional	UIC	02 / 2004
IBNS Research Scholars Award	\$1,000	International	UWO	06 / 2002
IBNS Research Scholars Award	\$1,000	International	UWO	04 / 2001
IBNS Research Scholars Award	\$ 500	International	UWO	04 / 2000
Accuscan SFN Research Award	\$ 200	International	UWO	11 / 2001
Accuscan SFN Research Award	\$ 200	International	UWO	11 / 2000
Accuscan SFN Research Award	\$ 200	International	UWO	11 / 1999
Ontario Graduate Scholarship	\$15,000*	Provincial	UWO	2001-2002
(OGS) – plus tuition waver	\$11,859*	Provincial	UWO	2000-2001
	\$11,859*	Provincial	UWO	1999-2000
Ontario Graduate Scholarship in Science and Technology	\$15,000*	Provincial	UWO	2000-2001
(Both declined in place of OGS)	\$15,000*	Provincial	UWO	1999-2000

SUPERVISORY/MENTORING HISTORY (Sections are in chronological order)

Trainee	Institution	Project or Position	Field of Study
<i>Undergraduate Students:</i>			
* Anna Capria	PSU	Schreyer Honors Thesis	Biobehavioral Health
* Marlisa J. Shaw	PSU	Schreyer Honors Thesis	Eberly College of Science
Andrew Franklin	UWO	Undergraduate Thesis	Neuroscience
Julia Flook	UWO	Independent Study	Neuroscience
Sara Little	UWO	Independent Study	Neuroscience
Daniel Nielsen	UWO	Undergraduate Thesis	Neuroscience
Kashif Zaki	UWO	Undergraduate Thesis	Neuroscience
Desmond Cheung	UWO	Undergraduate Thesis	Neuroscience
<i>Graduate Students:</i>			
* Angelica Hutchinson	PSU	PhD Student	Biobehavioral Health
+ Zach Zang	PSU	PhD Student (T32)	Child Maltreatment Science
+ Riki Slayday	PSU	PhD Student (T32)	Center for Healthy Aging
* Molly Wright	PSU	PhD Student	Biobehavioral Health
* Brooke Mattern ²	PSU	PhD Student	Biobehavioral Health
+ Emily Jones ¹	PSU	PhD Student (F31)	Biobehavioral Health
+ Emily Dove-Medows	Wayne State	PhD Student	Nursing
+ Jinshil Hyun ²	PSU	PhD Student (T32)	Center for Healthy Aging
+ Hyunju Yang ¹	PSU	PhD Student	Nursing
+ Lisa Shank ¹	Washington DC	PhD Student (F31)	Medicine & Clinical Psychology
* Marzieh Majd ^{2,3}	PSU	PhD Student	Biobehavioral Health
Ritu Sharma	UIC	Masters Thesis	Bioengineering
Lara Regis	UIC	Masters Thesis	Oral Sciences
Antonia Savarese	UIC	PhD rotation	Neuroscience
James Chou	OSU	Masters Thesis	Oral Biology
Sari Anderson	UWO	Independent Study	Neuropsychology
Andrew Franklin	UWO	Masters Thesis	Neuroscience

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Medical Students:

+ Liane Hunter ¹	Bronx NY	MD Student (F31)	Medicine (Einstein Med. Coll.)
Jon Friedstat ¹	UIC	James Scholar Research	Medicine (Surgery)
Donnie Rivera ¹	UIC	Independent Study	Dentistry
* Hiba Diab ^{1,2}	UIC	Summer Dental Research	Dentistry
* Houman Ebrahimi	UIC	Summer Dental Research	Dentistry
* Patty Casey	UIC	Summer Dental Research	Dentistry
* Cassandra McKenzie ²	UIC	Summer Dental Research	Dentistry
* Marc Manos ^{1,2}	UIC	Summer Dental Research	Dentistry
Kelley Gyllenhaal ^{1,2}	UIC	Summer Dental Research	Dentistry
* Sara Mahmood	UIC	Summer Dental Research	Dentistry
* Shohreh Raouf ²	UIC	Summer Dental Research	Dentistry

Medical Residents:

* Andrew Monestero	UIC	Masters Thesis	Oral Sciences (Periodontics)
* Logesh	UIC	Masters Thesis	Oral Sciences (Periodontics)
Swayamprakasam ²			
Bahareh Sabzehei ¹	UIC	Masters Thesis	Oral Sciences (Periodontics)
Jeffrey Burke ¹	UIC	Masters Thesis	Oral Sciences (Periodontics)
Tricia Crosby	UIC	Masters Thesis	Oral Sciences (Periodontics)

Post-doctoral Fellows:

+ Nancy Sin ^{1,5}	PSU	Post-Doctoral Fellow (F32)	Biobehavioral Health
+ Anna Stanhewicz ^{1,4}	PSU	Post-Doctoral Fellow (K99/R00)	Kinesiology
* Erik Knight ^{1,4}	PSU	Post-Doctoral Fellow (T32)	Center for Healthy Aging
+ Suzanne Hyer	UCF	Post-Doctoral Fellow (F32)	Nursing, Univ. Central Florida
Erin Harrington	PSU	Post-Doctoral Fellow	Biobehavioral Health
* Leah Pyter ^{2,5}	UIC	Research Assistant Professor	Psychoneuroimmunology

Tenure-track Faculty:

Samuele Zilioli	Wayne State	Assistant Professor	Psychology
+ Dahlia Mukherjee ^{1,2}	PSU	Assistant Professor	Psychiatry
^ Autumn Kujawa ²	PSU	Assistant Professor	Psychiatry (Hershey)
+ Aprile Benner	Austin TX	Assistant Professor	HDFS (Univ. Texas at Austin)

International Scholars (Visiting Internship):

+ Gustavo Nascimento	UIC	Research Scholar (12 wks)	Dentistry (Brazil)
* Linglan Yang ²	UIC	PhD Research (2 yrs)	Oral Sciences (China)
+ Roger Junges	UIC	Research Scholar (6 wks)	Dentistry (Brazil)
+ Jose M. da Rocha	UIC	PhD Research (1 yr)	Oral Sciences (Brazil)

* Primary mentor

+ Co-mentor

^ Consultant

¹ National/International award recipient (based on mentored research)

² Regional award recipient (based on mentored research)

³ Recipient of the prestigious Penn State Alumni Association Dissertation Award

⁴ Now a tenure-track faculty member

⁵ Now a tenured faculty member

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NIH TRAINING PROGRAMS

Faculty Mentor – NIH T32 Training Grant - Child Maltreatment Science	2020 - Present
Faculty Mentor – NIH R25 HL147668 Training Program - College of Nursing	2019 - Present
Faculty Mentor – NIH T32 049676 Training Grant - Center for Healthy Aging	2015 - Present

GRADUATE EXAMINATION COMMITTEES (* Chair)

Candidacy/Qualifying Examination Committee (PhD):

Caitlin Givens (PSU - BBH)
Lauren Chu (PSU - BBH)
Brooke Mattern* (PSU - BBH)
Marzieh Majd* (PSU - BBH)
Francisco Alejandro Montiel-Ishino (PSU - BBH)

Preliminary Examination Committee (PhD):

Mateusz Wietecha (UIC - Neuroscience)
William Kenkel (UIC - Oral sciences)

Comprehensive Examination Committee (PhD):

Samantha Vervoordt (PSU - Clinical Psychology)
Julia Kelliher (PSU - Nutritional Sciences)
Brooke Mattern* (PSU - BBH)
Kristin Davis (PSU - BBH)
Emily Jones (PSU - BBH)
Marzieh Majd* (PSU - BBH)
Francisco Alejandro Montiel-Ishino (PSU - BBH)
Hyunju Yang (PSU - College of Nursing)

Dissertation Examination Committee:

Kristin Davis (PhD) (PSU - BBH)
Brooke Mattern (PhD)* (PSU - BBH)
Julia Kelliher (PhD) (PSU - Nutritional Sciences)
Samantha Vervoordt (MS) (PSU - Neuroscience)
Emily Jones (PhD) (PSU - BBH)
Marzieh Majd (PhD)* (PSU - BBH)
Hyunju Yang (PhD) (PSU - College of Nursing)
Andrew Monestero (MS) (UIC - Periodontics)
Whitney Dunn-Weiner (MS) (UIC - Periodontics)
William Kenkel (PhD) (UIC - Psychology)
Logesh Swayamprakasam (MS)* (UIC - Periodontics)
Bahareh Sabzehei (MS) (UIC - Periodontics)
Lara Regis (MS) (UIC - Periodontics)
Tricia Crosby (MS) (UIC - Periodontics)
Jeffrey Burke (MS) (UIC - Periodontics)

TEACHING (FACULTY MEMBER)

Course Instructor – PSU (* Designed course)

Functional and Integrative Neuroscience (BBH 470)	2021
* Neuropathology & Neuroimaging (NURS 597a: Special Topics - Graduate)	2015, 2018, 2021
Neuroanatomical Bases for Disorders of Behavior and Health (BBH 468)	2014, 2015, 2017, 2019
* Biology of Aging (BBH 597: Special Topics – Graduate)	2018, 2022
Biobehavioral Aspects of Stress (BBH 432)	2016

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Student Mentoring for Course Credit – PSU

Research Project (BBH 494)	2014-2016, 2019-2021
Independent Studies (BBH 496)	2016
Individual Studies - Graduate (NURS 596)	2015

Guest Lecturer – PSU

Professional Development in BBH (BBH 597)	2018-2019, 2021
Orientation to Graduate Study in BBH (BBH 597)	2017-2021
Biobehavioral Aspects of Aging (BBH 497 005)	2017-2019
Research Integrity & Scholarly Ethics (RISE 597)	2019
Biobehavioral Systems in Health and Development (BBH 503)	2016-2019
Biobehavioral Aspects of Stress (BBH 432)	2016, 2017
Research Colloquium (NURS 590)	2015
Interdisciplinary Integration in Biobehavioral Health (BBH 311)	2014, 2015
Quantitative Methods in Health Research (NURS 586)	2014

Course Director / Instructor – UIC

Statistics for Oral Sciences (OSCI 441)	2013
Statistics for Dental Residents (OSCI 594)	2009-2012
Introduction to Quantitative Data Analysis (MHPE 494)	2008

Course Director – UIC

Oral Science Seminar Series (OSCI 595)	2012-2013
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Course Facilitator – UIC

Small Group Learning [SGL] – Dental Undergraduate Students

Applied Oral & Behavioral Sciences III (DAOB 311)	2013
Applied Oral & Behavioral Sciences II (DAOB 311)	2012
Biomedical & Clinical Sciences IV (DBCS 314)	2012
Biomedical & Clinical Sciences I (DBCS 311)	2011
Applied Oral & Behavioral Sciences I (DAOB 311)	2011

Course Lecturer in Immunology – UIC

2012-2013

Content Expert in Immunology – UIC

2012-2013

Guest Lecturer – UIC

Introduction to Clinical and Translational Science (HON 201)	
Topics in Social Epidemiology (EPI 594)	
Kinesiology and Nutrition (HN 595)	
Stress and Health Outcomes (NUSC 594)	
Special Topics in Oral Sciences – Wound Healing (Nerve Damage & Regeneration) (OSCI 594)	

OTHER TEACHING ENDEAVORS

Full-day Seminar Lecturer – Institute for Brain Potential (2019–Present)

I have developed a full-day seminar on the mind-body connection in health. I present this numerous times per year to mixed medical professionals, who earn Continuing Education (CE) credits.

Teaching Assistant – University of Western Ontario, London, Ontario, Canada (1997–2002)

Taught undergraduate courses:	- Globalization (Business School)
	- Research Methods & Design (Psychology)
	- Animal Behavior Laboratory & Techniques (Psychology)

High School Teacher – Psychology (1994–1996)

Continuing Education Centre, Philemon Wright High School, Hull, Quebec, Canada

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OTHER RESEARCH ENDEAVORS

Judge – PSU

Founder’s Endowment for Excellence and Innovation Research Day, BBH (2022)

Judge – UIC

Clinic and Research Day, College of Dentistry (2010, 2012, 2013)

Panelist/Discussant – UIC

- UIC Postdoctoral Association Career Development (2013)
- 1st Annual Meeting of the American College of Wound Healing and Tissue Repair (2011)
- Center for Clinical and Translational Sciences Intensive Summer Program.
Overcoming the Pitfalls of Clinical Research: Critical Factors for Success (2008, 2009, 2011, 2012)

Faculty Mentoring Training Program – UIC (Completed in 2010)

Research Assistant

In the animal laboratory of Case Vanderwolf, Ph.D. (Neuroscience)
University of Western Ontario, London, Ontario, Canada (1996–1997)

Research Assistant

In the clinical office of Mark Ferland, Ph.D. (Clinical Neuropsychology)
St. Vincent’s Hospital, Department of Psychology, Ottawa, Ontario, Canada (1994–1996)