

Curriculum Vitae

Roger C. McIntosh, Ph.D.

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Higher Education

Ph.D. in Experimental Psychology Florida Atlantic University (2012)

M.A. in Psychology Florida Atlantic University (2010)

M.S. in Education Nova Southeastern University (2005)

B.S. in Biology Jacksonville University (2002)

Positions and Employment

Assistant Professor (2015 to present): University of Miami, Department of Psychology, Health Division

Assistant Research Professor (2014 to 2015): University of Miami, Department of Psychology, Health Division

Postdoctoral Fellow (2012 to 2014): University of Miami Center for AIDS Research (CFAR) – Director: Neil Schneiderman, Ph.D., Supervisor: Michael Antoni, Ph.D., Coral Gables, FL.

Research Coordinator (2009- 2012): Children’s Diagnostic & Treatment Center – Director: Susan Widemayer, Ph.D., Fort Lauderdale, FL.

Research Coordinator (2009 to 2012): Nova Southeastern University, Psychophysiology Research Lab – Supervisor: Jaime Tartar, Ph.D., Davie, FL.

Study Coordinator (2007 to 2012): Florida Atlantic University, Neuropsychology Research Lab – Supervisor: Monica Rosselli, Ph.D., Davie, FL.

Instructor (2008 to 2013): Psychology of Motivation and Emotion; Biological Bases of Behavior; Research Methods; Abnormal Psychology; Statistical Inference and Data Analysis.

Teaching Experience

University of Miami. Aug. 2015 – present

Health Psychology PSY-426. Topics: human physiology, stress & illness, health-related behaviour promotion, substance abuse, diet & nutrition, neurobiology of pain, healthcare utilization, chronic illness and disease management.

Psychoneuroimmunology PSY-474. Topics: cellular immunity, the gut microbiota, neuroinflammation, disease, lifestyle and behaviour, mental health, aging, sleep, and pain.

Florida Atlantic University. Jan. 2010 – 2015

Psychology of Motivation and Emotion. Topics: Biological bases of motivated behavior; psychopharmacology and addiction; cognitive structure of emotions; self-regulation. Students critically review and present most recent experimental research.

Florida Atlantic University. Jan. 2008 – Jan. 2011

Statistical Inference and Data Analysis. Taught analytical techniques e.g., Univariate, Multivariate, Mixed-Model, Hierarchical Regression Analysis, and structural equation modelling. Predicted Analytics Software (PASW-19).

Florida Atlantic University. Sept. 2010 – Present

Biological Bases of Behavior. Structure and function of the human nervous system as it relates to movement, sensation, learning and memory.

Florida Atlantic University. Sept. 2009 – Sept. 2011

Research Methods. Validity and reliability of observations, measurement scales, experimental and quasi-designs, hypotheses testing, independent research writing with current APA guidelines.

Florida Atlantic University. Jan. 2009

Abnormal Psychology. Neurological disorders, mood disorders, developmental disorders, DSM-IV psychiatric diagnosis, stress, anxiety.

Awards & Grants Received

NHLBI Mentored Career Development Award K01, February 2018 to 2023.

National CFAR Junior Faculty Nominee to attend the National Symposium Travel Award, November 2016

Young Investigator's Colloquium Travel Award American Psychosomatic Society (\$1,000) 2015

Social and Behavioural Science Research Network (SBSRN) Mentoring Fellowship & Travel Award 2013

Association for Psychological Science (APS) Graduate Student Research Award. (\$500) 2012

APA Minority Fellowship award recipient. Attended Psychology Summer Institute. (\$1,000) June 2011

1st Place Research on Minorities and Women Southeastern Psychological Assoc. (\$250) 2011

President's Research Grant, Nova Southeastern University (\$10,000) 2010

Peer-reviewed publications

McIntosh, R. C., Lobo, J. D., Fajolu, O., Reyes E., Pattany, P.M., & Kolber, M.A. (2018). Greater N-Acetylaspartate to creatine ratio within left anterior insula predicts sympathetic imbalance in postmenopausal women living with hypertension and/or HIV. *Heart Mind Journal*. DOI: 10.4103/hm.hm_18_17

McIntosh, R. C., Paul, R., Ndhlovu, L. C., Hidalgo, M., Lobo, J. D., Walker, M., Shikuma, C.M., & Kallianpur, K.J. (2018). Resting-state connectivity and spontaneous activity of ventromedial prefrontal cortex predict depressive symptomology and peripheral inflammation in HIV. *Journal of Neurovirology*. DOI: <https://doi.org/10.1007/s13365-018-0658-9>

McIntosh, R., Antoni, M., Seay, J., Fletcher, M. A., Ironson, G., Klimas, N., ... & Schneiderman, N. (2018). Associations Among Trajectories of Sleep Disturbance, Depressive Symptomology and 24-Hour Urinary Cortisol in HIV+ Women Following a Stress Management Intervention. *Behavioral sleep medicine*, 1-16. DOI: <https://orcid.org/0000-0002-1084-072X>

McIntosh, R. C., Ironson, G., & Krause, N. (2017). Do religious and spiritual identity confer risk for hypertension via psychosocial and lifestyle factors?. *Journal of health psychology*. DOI: <https://doi.org/10.1177/1359105317748733>

McIntosh, R. C., Chow, D. C., Lum, C. J., Hidalgo, M., Shikuma, C. M., & Kallianpur, K. J. (2017). Reply to "The insular cortex and QTc interval in HIV+ and HIV- individuals: Is there an effect of sympathetic nervous system activity?". *Clinical Neurophysiology*. DOI: <http://dx.doi.org/10.1016/j.clinph.2017.10.017>

McIntosh, R. C., Chow, D. C., Lum, C. J., Hidalgo, M., Shikuma, C. M., & Kallianpur, K. J. (2017). Reduced functional connectivity between ventromedial prefrontal cortex and insula relates to longer corrected QT interval in HIV+ and HIV- individuals. *Clinical Neurophysiology*, 128(10), 1839-1850. DOI:10.1016/j.clinph.2017.07.398

McIntosh, R. C., Lobo, J. D., & Hurwitz, B. E. (2017). Current assessment of heart rate variability and QTc interval length in HIV/AIDS. *Current Opinion in HIV and AIDS*, 12(6), 528-533.

McIntosh R.C., Antoni, M., Carrico, A, Duran, R., Hurwitz, B., Ironson, G., Fletcher, M.A., Klimas, N., Kumar, M., Schneiderman, N. (2017). Change in urinary cortisol excretion mediates the effect of angry/hostile mood on 9 month diastolic blood pressure in HIV+ adults. *Journal of Behavioral Medicine*, 1-11. doi:10.1007/s10865-017-9827-1

McIntosh, R. C., Ironson, G., Antoni, M., Lai, B., Kumar, M., Fletcher, M. A., & Schneiderman, N. (2016). Psychological Distress Mediates the Effect of Alexithymia on 2-Year Change in HIV Viral Load. *International Journal of Behavioral Medicine*, 1-11. DOI: 10.1007/s12529-016-9602-7

McIntosh, R. C. (2016). A meta-analysis of HIV and heart rate variability in the era of antiretroviral therapy. *Clinical Autonomic Research*, 26(4), 287-294. DOI:10.1007/s10286-016-0366-6

McIntosh, R. C., Ironson, G., Antoni, M., Fletcher, M. A., & Schneiderman, N. (2016). Alexithymia, Assertiveness and Psychosocial Functioning in HIV: Implications for Medication Adherence and Disease Severity. *AIDS and Behavior*, 20(2), 325-338. DOI: 10.1007/s10461-015-1126-7

McIntosh, R. C., Rosselli, M., Uddin, L. Q., & Antoni, M. (2015). Neuropathological Sequelae of Human Immunodeficiency Virus and Apathy: A review of neuropsychological and neuroimaging studies. *Neuroscience & Biobehavioral Reviews*, 55, 147-164.

McIntosh, R. C., Tartar, J. L., Widmayer, S., & Rosselli, M. (2015). Negative Attention Bias and Processing Deficits During the Cognitive Reappraisal of Unpleasant Emotions in HIV+ Women. *The Journal of neuropsychiatry and clinical neurosciences*. <http://dx.doi.org/10.1176/appi.neuropsych.13090222>

Kremer, H., Lutz, F. P., **McIntosh, R. C.**, Dévieux, J. G., & Ironson, G. (2015). Interhemispheric Asymmetries and Theta Activity in the Rostral Anterior Cingulate Cortex as EEG Signature of HIV-Related Depression Gender Matters. *Clinical EEG and neuroscience*, doi: 10.1177/1550059414563306.

Ironson, G., Lucette, A., & **McIntosh, R. C.** (2015). Doctor-patient relationship: active patient involvement (DPR: API) is related to long survival status and predicts adherence change in HIV. *Journal of AIDS and Clinical Research*, 6(2). doi:10.4172/2155-6113.1000427

McIntosh, R. C., Hurwitz, B. E., Antoni, M., Gonzalez, A., Seay, J., & Schneiderman, N. (2014). The ABCs of Trait Anger, Psychological Distress, and Disease Severity in HIV. *Annals of Behavioral Medicine*, 49(3), 420-433. doi:10.1007/s12160-014-9667-y

Tartar, J. L., **McIntosh, R. C.**, Rosselli, M., Widmayer, S. M., & Nash, A. J. (2014). HIV-positive females show blunted neurophysiological responses in an emotion–attention dual task paradigm. *Clinical Neurophysiology*, 125(6), 1164-1173. <http://dx.doi.org/10.1016/j.clinph.2013.09.048>

McIntosh, R.C., Ironson, G., Antoni, M., Kumar, M., Fletcher, M., Schneiderman, N. (2013). Alexithymia is Linked to Neurocognitive, Psychological, Neuroendocrine, and Immune Dysfunction in Persons Living with HIV. *Brain Behavior and Immunity* <http://dx.doi.org/10.1016/j.bbi.2013.10.024>

McIntosh, R.C., Seay, J., Antoni M., Duran, R., Schneiderman, N. (2013). Cognitive vulnerability for depression in HIV: A Moderated Mediation Model. *Journal of Affective Disorders*. <http://dx.doi.org/10.1016/j.jad.2013.05.014>

Seay, J. S., **McIntosh, R. C.**, Fekete, E. M., Fletcher, M. A., Kumar, M., Schneiderman, N., & Antoni, M. H. (2013). Self-reported sleep disturbance is associated with lower CD4 count and 24-h urinary dopamine levels in ethnic minority women living with HIV. *Psychoneuroendocrinology*, 38(11), 2647-2653. <http://dx.doi.org/10.1016/j.psyneuen.2013.06.022>

Tartar, J.L., de Almeida, K.E., **McIntosh, R.C.**, Rosselli, M., Nash, A.J. (2012). Emotionally negative pictures increase attention to an immediately subsequent auditory stimulus. *International Journal of Psychophysiology*. 83, 36–44. <http://dx.doi.org/10.1016/j.ijpsycho.2011.09.020>

McIntosh, R. C., & Rosselli, M. (2012). Stress and Coping in Women Living with HIV: A Meta-Analytic Review. *AIDS and Behaviour*, 1-16. doi:10.1007/s10461-012-0166-5

Book Chapters

Hurwitz, B.E., **McIntosh, R.C.**, Greeson, J.M. (2017). **HIV-1 Spectrum Disease, Psychological Distress and Cardiometabolic Risk**. *Cardiovascular Behavioral Medicine*

Abstracts and presentations

Lobo, J. D., Griffin, Hidalgo, M. and **McIntosh, R. C.** (June, 2018). Patterns of resting brain activity, mood disturbance and intermediate (CD14++ CD16+) monocyte expansion in post-menopausal women living with HIV. Poster session presented at the Annual Conference of the Psychoneuroimmunology Society, Miami, FL.

Rutledge, J.C., Lobo, J. D., Goldstein, S., Hidalgo, M. and **McIntosh, R. C.** (June, 2018). HIV disease duration and endothelial progenitor cell function predict subcortical cerebral blood flow in post-menopausal women. Poster session presented at the Annual Conference of the Psychoneuroimmunology Society, Miami, FL.

Goldstein, S., Lobo, J.D., Fajolu, O., Garcia, A., Hidalgo, M. and **McIntosh, R. C.** (June, 2018). Differences in Endothelial Progenitor Cell Outgrowth and Cardio-autonomic Function with Hypertension and HIV Disease Comorbidity. Poster session presented at the Annual Conference of the Psychoneuroimmunology Society, Miami, FL.

McIntosh, R.C., Lobo, J. L., Rivera, C., Garcia, A., Fajolu, O., Magoon, S., Weinman, J. (May, 2018) Neural Correlates of Interoceptive Awareness in Normotensive and Hypertensive Women. Poster session presented at the Annual Conference for Biological Psychiatry, New York, N.Y.

McIntosh, R.C., Lobo, J. L., Bundschu, N., Jitta, A., Fajolu, O., Magoon, S., Weinman, J. (May, 2018). Trauma is Associated with Abberant Patterns of Intrinsic Brain Connectivity in Hiv-Positive Women. Poster session presented at the Annual Conference for Biological Psychiatry, New York, N.Y.

Lobo, J. D., Hidalgo, M. and **McIntosh, R. C.** (June, 2017). Expansion of the Non-Classical Monocyte Pool Predicts Elevated Mood Disturbance in Post-Menopausal Women with and without HIV Infection. Poster session presented at the Annual Conference of the Psychoneuroimmunology Society, Galveston, TX.

Lobo, J. D., Hidalgo, M., Fajol, O., Concha, P. and **McIntosh, R. C.** (June, 2017). Neural Integrity of the Anterior Insula is Related to Autonomic Function in Postmenopausal Women with and without HIV. Poster session presented at the Annual Conference of the Psychoneuroimmunology Society, Galveston, TX.

McIntosh, R.C., Hidalgo, M., Gonzalez, A., Gonzalez, N., Klimas, N., Fletcher, M.A., Hurwitz, B.E. (2016, Feb). HIV-related Trauma is Associated with Polarization of the Th1/Th2 Immune Response. Presented at Inflammation in Miami, Florida.

McIntosh, R.C., Tormacello, E., Gonzalez, A., Gonzalez, N., Klimas, N., Fletcher, M.A., Hurwitz, B.E. (2016, Feb). 18-Month Selenium Supplementation in HIV/AIDS Results in Decreased Proinflammatory Cytokine Levels and Blood Pressure. Presented at Inflammation in Miami, Florida.

McIntosh, R.C., Naibryf, T. Fajolu, O., Goodman, S., Song, S., Lobo, J. Neural Markers of Cardioautonomic and Endothelial Dysfunction in Post-menopause Women with HIV. Presented at International Symposium on NeuroVirology November, 2016

McIntosh, R.C., Chow, D.C., Lum, C.J., Hidalgo, M., Shikuma, C.M., Kallianpur, K.J. Reduced Resting-State Functional Connectivity between the Ventromedial Prefrontal Cortex and Insula Corresponds to Longer QTc Interval in HIV+ and HIV-Negative Individuals. Presented at International Symposium on NeuroVirology November, 2016

McIntosh, R.C., Hidalgo, M., Shikuma, C.M., Kallianpur, K.J. Alterations in Resting State Connectivity within the Central Executive Network in HIV as a Predictor of Neurocognitive Impairment. Presented at Society for Neuroscience, November, 2016

McIntosh, R.C., Hidalgo, M., Gonzalez, A., Gonzalez, N., Klimas, N., Fletcher, M.A., Hurwitz, B.E. (2016, Feb). HIV-related Trauma is Associated with Polarization of the Th1/Th2 Immune Response. Presented at Inflammation in Miami, Florida.

McIntosh, R.C., Tormacello, E., Gonzalez, A., Gonzalez, N., Klimas, N., Fletcher, M.A., Hurwitz, B.E. (2016, Feb). 18-Month Selenium Supplementation in HIV/AIDS Results in Decreased Proinflammatory Cytokine Levels and Blood Pressure. Presented at Inflammation in Miami, Florida.

Magoon, S., Patel, B., Canero, A., **McIntosh, R.** (2015, June). Lower Functional Connectivity of the Central Autonomic Network is Associated with Hypertensive Risk in Post-Menopause. Poster presented at the Annual Meeting for the Organization of Human Brain Imaging in Honolulu, Hawaii.

McIntosh, R.C., Parker, M., Gonzalez, A., Rowaan, C., Greeson, J., Klaus, J., Bilsker, M., Llabre, M., & Hurwitz, B. (2015, March). Psychological Distress Predicts Endothelial Dysfunction in HIV Patients on Anti-retroviral Regimen. Poster presented at the Annual Meeting for the American Psychosomatic Society in Savannah, Georgia.

McIntosh, R.C., Ironson, G., Antoni, M., Kumar, M., Fletcher, M., Schneiderman, N (2013, October). Alexithymia is linked to Cognitive, Physiological, Behavioral, Psychosocial, and Immune Dysfunction in HIV+ Survivors. Poster and presentation at the Social and Behavioral Sciences Research Network (SBSRN), Washington D.C.

McIntosh, R.C., Hurwitz, B.E., Antoni, M., Gonzalez, A., Seay, J., & Schneiderman, N. (2013, August). The ABC's of Anger and Hostility in HIV: Psychosocial and Health Outcomes. Poster presented at the International Society for Research on Emotion, Berkley, CA.

McIntosh, R., Seay, J., Antoni, M., Duran, R., Schneiderman N. A Moderated Mediation Model of Cognitive Depression in HIV. Poster presented at International Neuropsychological Society, 2013..

***McIntosh, R.,** Tartar, J., Rosselli, M., Serrano, A. (2012, February). *Neuropsychological correlates of emotion regulation in women with HIV*. Poster presented at INS Montreal, Quebec.

***McIntosh, R.,** Eddinger, Kristin, Rosselli (2011, June). *Stress & Coping in HIV-Infected Women*. Paper presented at the APA Psychology Summer Institute, Washington, D.C.

McIntosh, R. (2011, March). *Electrophysiological and Neuropsychological Correlates of Emotion Regulation: An ERP Analysis*. Paper presented at South-eastern Psychological Association, Jacksonville, Florida.

***McIntosh, R.,** Eddinger, Kristin, Rosselli (2011, February). *Emotional Dysfunction in Women with HIV: An ERP Analysis* Poster presentation, International Neuropsychological Society Annual Meeting, Boston MA.

***Tartar, J.L., McIntosh, R.C.,** Rosselli, M., Nash, A.J. (2010, November). *Executive Function and the Modulation of Emotional Response in HIV*. Poster Presentation, Society for Neuroscience, San Diego, CA.

*Tartar, J., **McIntosh, R.**, Rosselli, M., Nash, A. (2009, November). *Emotional influences on cognitive processing in HIV-infected women*. Poster presentation, Society for Neuroscience, 21st Annual Meeting. Chicago, IL.

McIntosh, R., & Rosselli, M. (2008, October). *Head tilt and spatial working memory*. Poster presented at the National Academy of Neuropsychology Annual Meeting, New York, NY.

Summary of Activities to Date

Funding:

- K01-HL139722
Mentored Career Development Award to Promote Faculty Diversity in Biomedical Research.
Award Period: 2018 to 2023.
Project Title: HIV-Related Changes in Brain Function and Hypertensive Risk (Impact Score 24).
Principal Investigator: Roger McIntosh
Mentor: Neil Schneiderman
Co-mentors: Barry Hurwitz, Pete Gianaros
- K01-HL139722
Biopsychosocial Research Training in Immunology and AIDS
Award Period: 2012 to 2014.
Project Title: Postdoctoral research training into the biological, behavioral psychosocial and sociocultural factors involved in the prevention, pathogenesis and management of HIV/AIDS.
Principal Investigator: Neil Schneiderman

Invited Talks:

- Exercise-induced Changes in Salience Network Connectivity and Insula Activity During Interoceptive Awareness; An fMRI Case Study. International IACFS/ME Research and Clinical Conference: October, 2016. Fort Lauderdale

Service/Scholarship/Mentoring:

- Spring 2016 Master's Thesis Committee for Shannon Chiles. Advisor: Pat Saab.
- Fall 2016 Master's Thesis Committee for Josh Rooks. Advisor: Amishi Jha.
- Fall 2016 Master's Thesis Committee for Marissa Krimesky. Advisor: Amishi Jha.
- Fall 2016 Master's Thesis Committee for Nik Banajee. Advisor: Gail Ironson.
- Fall 2016 Honor's Thesis Advisor for Matt Carmen
- Spring 2017 Honor's Thesis Committee for Sydney Feldman
- Spring 2017 Honor's Thesis Committee for Ana Mariela Rodriguez
- Fall 2017 Honor's Thesis Chair for Nicole Rockovitz
- Fall 2017 Dissertation Committee for Taylor Bolt
- Spring 2018 Master's Thesis Chair for Judith Lobo

Professional Organizations:

- 1) International Neuropsychological Society
- 2) Society for Neuroscience
- 3) Southeastern Psychological Association
- 4) Psychosomatic Medicine
- 5) National Academy of Neuropsychology
- 6) Human Brain Mapping
- 7) Society for Neuroscience

Review Board

- 1) Heart and Mind – Official publication of Asia – Pacific Institute of Psycho – Cardiology Research (1)

Ad Hoc Reviewer

- 1) Frontiers in Psychology
- 2) Archives of Clinical Neuropsychology
- 3) Jacobs HIV
- 4) Circulation
- 5) Psychology and Medicine
- 6) Global Journal of Health and Science
- 7) Culture and Brain
- 8) International Journal of Behavioral Medicine
- 9) Alternative and Complementary Medicine
- 10) HIV/AIDS - Research and Palliative Care
- 11) Behavioral and Brain Function (1)
- 12) International Journal of Behavioral Medicine (1)
- 13) Psychology and Health (1)
- 14) International Journal of Psychology (1)
- 15) JAIDS (1)