

JENNIFER SWANN, Ph.D.

1824 W. Congress Street, Allentown, PA 18104
Mobile: 610-554-8839 Email: cygne.noir54@gmail.com

PROFESSIONAL SUMMARY OF QUALIFICATIONS:

- Conflict mediator, experienced in addressing and mediating conflict to empower individuals and build effective, engaged communities in the workplace, home, and society.
- Respected Neurobiologist, Professor & Evaluator who applies academic knowledge, research skills, professional experience, and diverse strengths to create accessible pathways for current graduate students & rising undergraduates.
- Leadership Specialist who prepares and advances the following: DEIAB assessment and engagement, leadership assessment and training, Pedagogy in Neurobiological and physiological research, procedures, guidelines, assessments, strategies, human behavior, and community engagement.
- Experienced Education Administrator with a demonstrated history of service, training, development, shaping policy, assessment, academic reviews, change implementation & building diverse communities in higher education.
- Accomplished in program oversight, project, grants management, curriculum development & conference presentations.
- Collects & analyzes data to evaluate the effectiveness of academic programs & behavioral management systems; promotes an understanding of professional, leadership & management development in relation to improving organizations.
- Dedicated to inclusive staff development, promotion, retention, affirmation of diverse cultures, health issues, community engagement & interventions; adept in public speaking, team building & a strong sense of business acumen.
- Provides consultation focused on extensive bodies of research to administrators, educators, policymakers, accreditation, business & industries in local, national & international arenas.
- Effective Communicator with experience in leading difficult conversations, mediating conflict, and guiding change.

PROFESSIONAL - ACADEMIC RESEARCH AND INSTRUCTION:

2020- Present	OMBUDS	Lehigh University	University Appointment
2019 - 2020	INT DIRECTOR OF AFRICANA STUDIES	Lehigh University	College of Arts and Sciences
2008 - Present	PROFESSOR	Lehigh University	Dept. of Biological Sciences
2015 - 2019	DIRECTOR OF STUDENT SUCCESS	Lehigh University	College of Arts and Sciences
1996 - 2007	ASSOCIATE PROFESSOR	Lehigh University	Dept. of Biological Sciences
1995 - 1996	VISITING ASSOCIATE PROFESSOR	Lehigh University	Dept. of Biological Sciences
1994 – 1995	DIRECTOR	Rutgers University	Academic Foundations
1993 – 1996	ASSOCIATE PROFESSOR	Rutgers University	Dept. of Biological Sciences
1987 - 1993	ASSISTANT PROFESSOR	Rutgers University	Dept. of Biological Sciences

PROFESSIONAL SERVICE & PEER REVIEW:

- 2021- Present **CORA Good Shepherd Mediation Services Volunteer Mediator** – volunteer mediator in Philadelphia’s Eviction Diversion program and other disputes.
- 2014 - Present **Commission on Higher Education of the Middle States Association of Colleges and Schools (MSCHE) Board of Appeals and Evaluation Team Member** - Priority expertise & focus on HBCUs. **Review Committee Member** - 2014 - Medgar Evers; 2015 - Touro College; 2016 - University of Maryland Eastern Shore, 2017 - University of Virgin Islands; 2015 - **Hearing Panel** considered an appeal by Sojourner-Douglas College.
- 2017 **Research Competitiveness Program at the American Association for the Advancement of Science (AAAS) Peer-Review** -Assessment of Mississippi’s NIH-funded Idea Network for Biomedical Research Excellence

(MS-INBRE) program. MS-INBRE is a statewide network of collaborative partnerships among the University of Southern Mississippi (USM) 3 research institutions & 6 partners (Including 4 HBCUs) higher education institutions, designed to build sustainable biomedical research and training capacity in Mississippi.

- 2011 - 2015 **Howard University Capstone Institute - Mentor To HBCU Faculty** - In an NSF-sponsored grant writing program.
- 2011 **HBCU-UP Implementation, ACE Implementation, and Planning Grant Panel Member** - Reviewed approximately 30 proposals designed to develop, implement and study innovative models and approaches for making dramatic improvements in the preparation and success of underrepresented minority students to booster graduate programs and the workforce.
- 2008 – present **Alzheimer's Association Grant Review** - annual review of 5-10 proposals for the association
- 2006 - 2013 **Integrative Organismal Systems – NSF Panel Member** - Participated in the annual review of approx. 100 grants for the subdivision supporting research in the study of structure & function of the brain & its role in behavior.
- 2003 - 2008 **Center for Behavioral Neuroscience (CBN) Panel Member** - For the annual review of one of the National Science Foundation's Science and Technology Centers. The CBN consists of 7 institutions in Atlanta, including 3 HBCUs: Clark Atlanta University, Morehouse College & Spelman College) and other community partner organizations.
- 1995 **NIH Panel Member** - Study section that is now Neuroendocrinology, Neuroimmunology, and Behavior. The panel reviewed approx. 100 applications on the neurobiological basis of behavior with a focus on neuroendocrine, neuroimmune, circadian rhythms and sleep systems.

Ad-hoc reviewer for numerous journal including: Physiology and Behavior, Developmental Neurobiology, Neuroscience, Journal of Chemical Neuroanatomy, Asian Journal of Andrology, Neuroendocrinology, AJP: Regulatory, Integrative and Comparative Physiology, Hormones and Behavior

Ad-hoc reviewer for society proposals: ABRCMS, SCUP

EDUCATION:

MASTERS OF SCIENCE Columbia University	Concentration: Negotiation and Conflict Management NYC, NY	May 2023
POSTDOCTORAL University of Michigan	Concentration: Reproductive Endocrinology Program Ann Arbor, MI	July, 1987
PH.D. Northwestern University	Concentration: Neurobiology & Physiology Evanston, IL	May, 1984
MASTERS OF SCIENCE Florida State University	Concentration: Psychology Department Tallahassee, FLA	May, 1979
BACHELORS OF SCIENCE Penn State University	Concentration: Psychology; Concentration: Pre-Medicine University Park, PA	May, 1976

PROFESSIONAL SERVICE – EXTERNAL ADVISORY BOARD:

2017 - Present ASCEND Grant - Morgan State. The board oversees the progress of grant which is designed to increase minority participation in STEM. My work with Morgan State Prior to this award brought 9 students to Lehigh over 3 summers – one was recruited and received her doctorate in 2020.

2006 - Present COBRE Advisory Board - Delaware Center for Neuroscience Research. Chair since 2019. The Center is a partnership between Delaware State and the University of Delaware and includes several young

investigators supported by an NSF COBRE grant (obtained 2012). The board meets twice a year and has contributed significantly to the creation of an animal facility at Delaware State. Currently, the majority of the faculty supported have obtained NIH or NSF support.

PROFESSIONAL SERVICE – NON PROFIT BOARDS:

- 2023 - present** **Mediation and Restorative services (MARS) Advisory Board – MARS provides** accessible, affordable mediation and restorative practices to underserved populations, to help them resolve their own conflict, repair harm and engender safe, healing communities.
- 2013 – present** **Coalition for Appropriate Transportation (CAT). Board president – 2019- 2023.** CAT improves mobility, and celebrates our community and the environment, through education about safe pedestrian access, bicycling, public transportation, and trail systems.
- 2021 - present** **Marcon Institute – the institute seeks: to provide educational value to its students and the community and to facilitate antiracist transformation in society through research teaching policy advocacy and cultural chant that centers empathy and compassion.**
- 2020 – present** **Penn Future. Human Resources Committee** The organization is leading the transition to a clean energy economy in Pennsylvania and beyond. We are protecting our air, water, and land, and empowering citizens to build sustainable communities for future generations.
- 2020 – present** **Academic Parity Movement.** Parity aims to uproot academic bullying, discrimination, and violence by empowering students, postdocs, and early career academics (including junior faculties) themselves with the tools to defend their most basic rights. Hosts an annual conference exploring incivility in academia

PROFESSIONAL – AWARDS & FELLOWSHIPS:

- March 2016 Recipient “25 Women Who Are Changing Lehigh” Award
- March 2013 Recipient Lehigh University - Martin Luther King Faculty Award
- June 2006 Recipient Lehigh University Office of Multicultural Affairs Faculty Staff Award
“For Outstanding Contributions To Improving The Quality Of Student Life.”
- 1988 - 1989 Ford Foundation Postdoctoral Fellowship, National Research Council
Institute for Animal Behavior, Rutgers University (Newark)
- 1984 - 1987 Postdoctoral Fellowship, Reproductive Endocrinology Program University of Michigan
- 1980 - 1984 Reproductive Endocrinology, Pre-Doctoral Fellowship,
Department of Neurobiology and Physiology, Northwestern University
- 1979 - 1980 Northwestern University Graduate Fellowship, Department of Biological Sciences, Northwestern University
- 1978 - 1979 Florida State University Graduate Fellowship, Psychology Department, Florida State University

SERVICE – PROFESSIONAL ASSOCIATIONS:

- 2020 - Present **IAWBH Member - International Association on Workplace Bullying & Harassment –** Working in collaboration with the Association to support and influence the future of bullying research and practice.
- 2020 – Present **National Association of Community and Restorative Justice** - promotes effective forms of justice that are safe, just, equitable, sustainable, reparative, and socially constructive, addressing not only crime, but conflict, incivility, injustice, and all forms of harm.
- 2020 – Present **CCAR Founding Member** - Community Conversations on Race – Monthly discussions on articles facilitated by Lehigh University and over 100 Leaders all around the US reaffirmed the need to stand together as a

- community, engage in candid dialogue, and fight against systemic discrimination and racial disparities in our community
- 2019 – Present **International Association of Ombuds – DEIJ committee.** The organization advances the profession of organizational ombudsman and ensures that practitioners can work to the highest professional standards. DEIJ reviews policies and practices of the organization to ensure equity and inclusion of its members.
- 2014 - Present **Commission on Higher Education of the Middle States Association of Colleges and Schools (MSCHE):** Board of Appeals and Evaluation Team Member focused on HBCUs, reviewed several colleges and universities for accreditation.
- 2010 - Present **National Biotech and Pharmaceutical Association (NBPA)** – An organization devoted to issues of minorities in the Life Sciences. Member of the research team that developed & administered a survey of black professionals. The results were presented in a white paper.
- 2011 - 2015 **Society for Behavioral Neuroendocrinology (SBN):** Professional Development (Education Committee), Public Communication Committee, Diversity Committee, Board member, Program Committee. In the capacity of Chair of Professional Development, instituted a series of workshops that broadened the focus to include high schools and new members during our pre-conference workshops. Pre-Doctoral Students and new professors in professional development workshops and speed mentoring.
- 2011 - 2015 **The Society for College and University Planning (SCUP);** As Academy Council Chair, organized the Annual conference and compose the environmental scan; as a member of the Board of Directors I assisted in the reorganization of the organization as they left the University of Michigan and hired a new Director; and supported the organization’s first fellows as a member of the Annual Fund Committee.
- 2005 - 2012 **Society for Neuroscience (SFN)** | Active Member of the Committee on Professional Development and Diversity; advocated for more diverse membership and keynote speakers; as a member of the Committee on Literacy/Public Education Committee, supported the educational initiatives that produced Brain Facts.

WORKSHOPS AND PANELS

- 2023 OSLAC Ombuds retreat –How do/should we gather and use our data?
- 2022 MLK day celebration - Vision of Beloved Community and Racial Health Disparities that the COVID-19 Pandemic has Unearthed. Temple/St Luke’
- 2021 Invited panel member_2021 Ford Fellows' Conference - Session - "Publishing: STEM"
- 2021 Defining bullying and our responses, STEM the bullying, virtual engage in candid dialogue and fight against systemic discrimination and racial disparities in our community
- 2020 FW: Virtual 2020 Ford Fellows' Conference – Session “Writing Successful Grant Proposals in STEM
- 2020 Faculty Perspectives on Open and Affordable Education: A Moderated Faculty Panel, Affordable Learning PA Summit, virtual, 2020 Sep, panel on open access resources
- 2018 Panel member – “Thriving in Neuroscience” Annual Meeting of the Society for Neuroscience Professional professional workshop.
- 2018 Co organizer and participant in How to Thrive as a Woman in Neuroscience professional development workshop. Society for Neuroscience
- 2016 Co-organizer – “Empowering College Stakeholders in Securing Grants for Successful Student Transitions” Pennsylvania Black Conference on Higher Education
- 2016 Panel member – “Optimizing the Mentor-Trainee Relationship”. Annual Meeting of the Society for Neuroscience Professional Development Workshop.
- 2016 Co-organizer – “Enhancing HBCUs’ Institutional Capacity for Faculty Success in Sponsored Research Initiatives in STEM and related Disciplines” National HBCU Week Conference
- 2015 Organizer and moderator “Best Practices for Creating a Diverse Workforce” NBPA Black Life Sciences Symposium
- 2015 Co-organizer – “Institutional Policies and Practices that Enhance Faculty Research and Grant Writing in STEM” National HBCU Week Conference

2003 Co-organizer and Presenter - "Diversity in Research and Education: Building the Faculty We Need." Workshop on Minority Education 7th Annual Meeting of the Society for Behavioral Neuroendocrinology

SERVICE – LEHIGH UNIVERSITY:

2018-2021 Member Faculty Senate: faculty affairs subcommittee - reviewed and redesigned the role of the professor of practice; diversity subcommittee - created faculty code of ethics.

2018 - 2019 Chair Assessment Committee, College of Arts and Sciences
Successfully prepared the CAS for the MSCHE Program Assessment Review

2017 -2020 Cas Tenure Committee – Chair 2019-2020

2015 - 2019 Director of Student Success, College of Arts and Sciences
Created and maintained the advising center for the CAS; recruited and mentored the first-year advisors

2015- 2018 College Policy Committee

2012 - 2014 Chair Internal Advisory Board - Lehigh ADVANCE

2013 - 2018 Faculty Tri-chair – Council for Equity and Community – Created the bylaws and oversaw the reformation of the reformation of the council; Collated & distributed results of the climate survey. Hosted MLK celebrations; tackling tough topics together; recruited and hired Lehigh’s first CDO.

2011 - 2015 Co-chair Steering Committee, Faculty and Staff of Color Network
Lehigh University – Organized the annual welcome, created space for faculty and staff communication.

2009 - 2011 Director Graduate Program – Department of Biological Sciences, Lehigh University

2006 - 2008 Chair, Task Force for Student Diversity, Lehigh University

RESEARCH GRANTS:

2007 - 2012 NSF - "Steroidal Regulation of Synaptic Input in the MPN mag"
Role PI; Total Award: \$ 446,000

2007 - 2008 PA-Department of Community & Economic Development - PITA X - Building Robots that Smell: A Summer Research Experience for Undergraduates in Engineering Role PI; Total Award: \$35,155

2005 - 2008 NIH- Sex Steroids Program Gender Identity; Program project Grant-University of Michigan
Role: Subcontract; Total Award: \$130,360.00

2005 - 2007 PA-Department of Community & Economic Development - PITA IX: Enhancing Eight Grade Science and Math at Harrison Morton Middle School in Allentown; Role PI; Total Award: \$49,961.00

2004 - 2007 NSF - "REU-Site: Animal-like, Sensor-based Robot Motions: Learning from Nature"
Role PI; Total Award: \$402,286.00

2004 - 2006 PA-Department of Community & Economic Development - PITA VIII - Building Robots that Smell: A Summer Research Experience for Undergraduates in Engineering Role: PI; Total Award: \$31,877.00

2001 - 2005 NSF -Exploring the Neuroanatomical Basis of Sexual Differentiation of Behavior
Role: PI; Total Award: \$684,933

1997 - 1998 NSF POWRE Award: Pheromonal Stimulation of Multi-Unit Activity in the MPN mag
Role: PI; Total Award: \$116,139

- 1996 - 1999 NIGMS Bridges to the Future Grant: Northern New Jersey Bridges Network: Essex County Community College, Union County Community College, Passaic County Community College and Rutgers the State University of New Jersey, Newark. Role: Pi; Total Award: \$487,191
- 1991 - 1997 NIH FIRST Award: Neuroanatomy of Peptides Regulating Male Mating Behavior
Role: Pi; Total Award: \$350,000
- 1989 - 1995 Supplemental to NIMH Training Grant; MBRS Program at Newark: PI Barry Komissaruk:
Role: Subproject PI: My share of Total Award: \$113,852
- 1989 - 1990 NSF Planning Grant "Location of Tachykinins in the Mating Behavior Pathway of the Hamster
- 1988 - 1989 Research Council, Rutgers University Location of Tachykinins in the Mating Behavior Pathway
- 1988 - 1989 Biomedical Research Council Award, Rutgers University
Location of Tachykinins in the Mating Behavior Pathway
- 1987 - 1988 Research Council, Rutgers University Neuroanatomy of Substance P Neurons in the Limbic System
- 1984 Dissertation Year Grant, Graduate School Northwestern University
- 1981 - 1982 Grant in Aid of Research, Sigma XI Scientific Research Society

PUBLICATIONS – REFEREED JOURNALS:

[Rostami, S.](#); [Mehrizi, M.](#); [Hosseiniara, S. M.](#); [Farahani, A. J.](#); [Swann, J.](#); [Heidarzadeh, F.](#). The effect of COVID-19 Pandemic on the Trauma Admission *Trauma Monthly* ; 26(4):185-186, 2021.

Rostami, S., Heidarzadeh, F., Ashourzadeh Fallah, S., Rahimi, S. A., Mehrizi, M., Sadeghi, F., & Jalali Farahani, A. (2021). Diagnostic Salivary Biomarkers in Traumatic Brain Injury. *Trauma Monthly*.

Sharifi, S., Caracciolo, G., Pozzi, D., Digiacomio, L., Swann, J., Daldrup-Link, H. E., & Mahmoudi, M. (2021). The role of sex as a biological variable in the efficacy and toxicity of therapeutic nanomedicine. *Advanced Drug Delivery Reviews*, 174, 337-347. doi:<https://doi.org/10.1016/j.addr.2021.04.028>

Ashkarran, A.A, Swann, J., Hollis, L., Mahmoudi, M. (2021) The File Drawer Problem in Nanomedicine. Trends in Biotechnology 10.1016/j.tibtech.2021.01.009
(<https://www.sciencedirect.com/science/article/pii/S0167779921000159>)

Farahani A, J, Swann J, Razi S, Mohammadi M, Amani J, Javadzadeh H, et al (2021) Comparison of Clinical, Laboratory and Radiological Findings in Iranian Elderly and Non-Elderly Patients with COVID-19. *J Mar Med.* 2 (4) :216-225
URL: <http://jmarmed.ir/article-1-123-en.html>

Farahani,AJ, Hassanpour, K, Badri,T, Swann, J, Shirzad, H (2020) Salient Points to Observe in Mass Ceremonies during the COVID-19 Pandemic. *Disaster medicine and public health preparedness*, 1, 2

Swann, J., Boucka, G. and Stanlick, S. (2020) Border Crossing for Universities: Creating a Culture of Diversity, Equity, and Inclusion. *The International Journal of Community Diversity* . 20 (1): 1-9.
DOI: <https://doi.org/10.18848/2327-0004/CGP/v20i01/1-9>

Brague JC, **Lenchur CN**, **Hayden JM**, **Davidson RH**, **Corrigan K**, **Santini GT**, Swann JM. (2018) BDNF infusion into the MPN mag is sufficient to restore copulatory behavior in the castrated Syrian hamster. *Horm Behav.* pii: S0018-506X(18)30016-3. doi: 10.1016/j.yhbeh.2018.05.006. [Epub ahead of print]

Brague JC, **Zinn CR**, **Granot DY**, **Feathers CT**, Swann JM. (2017) TrkB is necessary for male copulatory behavior in the Syrian_Hamster_(*Mesocricetus auratus*). *Horm Behav.*97:162-169. doi: 10.1016/j.yhbeh.2017.10.016. Epub 2017 Dec 19.

Brague JC, Swann JM. (2017) Sexual dimorphic expression of TrkB, TrkB-T1, and BDNF in the medial preoptic area of the Syrian hamster. *Brain Res*; 1669:122-125. doi: 10.1016/j.brainres.2017.06.008. Epub 2017 Jun 9.

Wang J, Swann JM. (2014) Connections of the magnocellular medial preoptic nucleus (MPN mag) in male Syrian hamsters. II The efferents. *Neuroscience* 274:102-18. doi: 10.1016/j.neuroscience.2014.05.014. Epub 2014 May 20.

Garelick T, Swann J. (2014) Testosterone regulates the density of dendritic spines in the male preoptic area. *Horm Behav*. 65(3):249-53. doi: 10.1016/j.yhbeh.2014.01.008. Epub 2014 Jan 31.

Swann JM, Richendrfer HA, **Dawson L, Nack E, Whylings J**, Garelick T. (2013) Exposure to female pheromones stimulates a specific type of neuronal population in the male but not the female magnocellular division of the medial preoptic nucleus (MPN mag) of the Syrian hamster. *Horm Behav* 64(3):421-9. doi: 10.1016/j.yhbeh.2013.06.004. Epub 2013 Jun 15.

Richendrfer HA, Swann JM. (2010) Neuronal composition of the magnocellular division of the medial preoptic nucleus (MPN mag) is sex specific in the Syrian hamster (*Mesocricetus auratus*) *Brain Res*. 1351 97-103.

Smith JM, **Hechtman A**, Swann J. (2010) Fluctuations in cellular proliferation across the light/dark cycle in the subgranular zone of the dentate gyrus in the adult male Syrian hamster. *Neurosci Lett* 473(3):192-5.

Venditti JJ, Swann JM, Bean BS (2010) Hamster Sperm-Associated Alpha-L-Fucosidase Functions During Fertilization. *Biol Reprod* 2010 82(3):572-9.

Richendrfer HA, **Wetzel JA**, Swann JM (2009) Temperature, peroxide concentration, and immunohistochemical staining method affects staining intensity, distribution, and background. *Appl Immunohistochem Mol Morphol*; 17(6):543-6.

Govek EK, Swann JM. (2007) Stereological sex difference during development of the magnocellular subdivision of the medial preoptic nucleus (MPN mag). *Brain Res*. 1145: 90-6.

Wang J, Swann JM. (2006) The magnocellular medial preoptic nucleus I. sources of afferent input. *Neuroscience*; 141(3):1437-56.

Wood RI, Swann JM (2005) The bed nucleus of the stria terminalis in the Syrian hamster: subnuclei and connections of the posterior division. *Neuroscience*; 135(1):155-79.

Swann, JM, Wang J. and Govek. EK (2003) Introducing the MPN mag: a critical area mediating pheromonal and hormonal regulation of male sexual behavior. *N Y Acad Sci*.1007:199-210.

Govek EK, Wang J, Swann JM. (2003) Sex differences in the magnocellular subdivision of the medial preoptic nucleus in Syrian hamsters. *Neuroscience*; 116(2):593-8.

Swann J, **Rahaman F, Bijak T**, Fiber J. (2001) The main olfactory system mediates pheromone-induced fos expression in the extended amygdala and preoptic area of the male Syrian hamster. *Neuroscience*: 105, 695-706.

Lonstein J.S., Simmons D.A., Swann J.M. and Stern J.M. (1998) Forebrain expression of c-fos due to active maternal behaviour in lactating rats. *Neuroscience* 82, 267-81

Swann, J.M. and Fiber, J.M. (1997) Sex differences in function of a pheromonally stimulated pathway: role of steroids and the main olfactory system. *Brain Research Bulletin* 44, 409-414.

Fiber, J.M. and Swann, J.M. (1997) Testosterone differentially influences sex-specific pheromone-stimulated fos expression in limbic regions of Syrian hamsters. *Hormones and Behavior* 30, 455-473.

Swann, J.M. (1997) Gonadal steroids regulate behavioral responses to pheromones by actions on a subdivision of the medial preoptic nucleus. *Brain Research* 750, 189-194.

Burroughs, L. F., Fiber, J. M. and Swann, J.M. (1996) Neuropeptide Y in hamster limbic nuclei - lack of colocalization with substance P *Peptides* 17, 1053-1062

Schneider, J. E., Finnerty, B.C. Swann, JM and Gabriel, J.M. (1995) Glucoprivic treatments that induce anestrus but do not affect food intake increase FOS-like immunoreactivity in the area postrema and nucleus of the solitary tract in Syrian hamsters. Brain Research 698, 107-113.

Fiber, J.M., **Adames, P.** and Swann, J. (1993) Pheromones induce c-fos in limbic areas regulating male hamster mating behavior. NeuroReport 4,871-874

Damlama, M and Swann, JM. (1993) Substance P and neurokinin K are colocalized in the central chemosensory pathway of the male golden hamster. Neuropeptides 4, 327-334.

Chinapen, S., Swann, J. M., Steinman, J. L. and Komissaruk, B. R. (1992) Expression of c-fos protein in lumbosacral spinal cord in response to vaginocervical stimulation in rats. Neuroscience Letters 145, 93-96.

Wood, RI, Brabec, R.K. Swann, J.M. and Newman, S.W. (1992) Androgen and estrogen concentrating neurons in chemosensory pathways in the male Syrian hamster brain. Brain Research 596: 89-98.

Swann, J.M. and Newman, S.W. (1992) Testosterone regulates substance P within neurons of the medial nucleus of the amygdala, the medial bed nucleus of the stria terminalis & the medial preoptic area of the male golden hamster. Brain Research 590: 18-28.

Swann, J.M. and **Macchione, N.** (1992) Photoperiodic regulation of Substance P Immunoreactivity in the Mating Behavior Pathway of the Male Golden Hamster. Brain Research 590: 29-38.

Neal, C.R. Jr., Swann, J.M. and Newman, S.W. (1989) The colocalization of substance P and prodynorphin immunoreactivity in neurons of the medial preoptic area, bed nucleus of the stria terminalis and the medial nucleus of the amygdala of the Syrian hamster. Brain Research 496: 1-13.

Swann, J. M. and Turek, F. W. (1987) Transfer from long to short days reduces the frequency of pulsatile LH release in intact but not in castrated male golden hamsters. Neuroendocrinology 47: 343-349.

Pieper, D.R., Unthank, P.D., Shuttie, D.A., Loboeki, C.A., Swann, J.M., Newman, S.W. and Subramanian, M.G. (1987) Olfactory bulbs influence testosterone feedback on gonadotropin secretion in male hamsters on long or short photoperiod. Neuroendocrinology 46: 318-323.

Swann, J.M. and Turek, F.W. (1985) Multiple oscillators regulate the timing of behavioral and endocrine rhythms in female golden hamsters. Science 228, 898-900.

Swann, J.M. and Turek, F.W. (1982) The cycle of lordosis behavior in female hamster whose activity rhythms have split into two distinct components. Amer. Journ. Physiol. 243, R112-R118.

Stephan, F.K., Swann, J.M. and Sisk, C.L. (1979) Anticipation of 24 hour feeding schedules in rats with lesions of the suprachiasmatic nuclei. Behav. Neurol. Biol. 25: 346-363.

Stephan, F.K., Swann, J.M. and Sisk, C.L. (1979) Entrainment of circadian rhythms by feeding schedules in rats with lesions of the suprachiasmatic nuclei. Behav. Neurol. Biol. 25: 545-554.

PUBLICATIONS - ABSTRACTS

J. Bague and JM Swann (2016) The role of TrkB and BDNF in the steroidal regulation of the MPN mag and to facilitate copulatory behavior in the male Syrian hamster. Annual meeting of the Society for Behavioral Neuroendocrinology. Winner – Graduate Poster Award

J. M. Swann, C. Martin-Fairey, A. Nunez (2013) Sex Differences in the BDNF in the MPN mag. *Hormones and Behavior*, 64

J. M. Swann, C. Martin-Fairey, A. Nunez (2012) Role of steroids in the regulation of growth factors in the medial preoptic area. *Neuroscience Meeting Planner*. New Orleans: Society for Neuroscience 2012

J.M Swann, T. Garelick (2011) Steroidal regulation of dendritic spines in the MPNmag. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience 2011

T. Garelick, J.M Swann (2011) Testosterone regulates the physical association of nNOS to NMDA receptors in the medial preoptic area via the scaffolding protein PSD-95. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience 2011

H. Richendrfer, J. M. Swann (2010) Neurons with a single nucleolus mediate male sex behavior in the magnocellular medial preoptic nucleus (MPNmag) in response to pheromonal stimulation in Syrian hamsters. *Hormones and Behavior*, 58

S. Park, J. M. Swann (2010) Androgens and plasticity of dendritic spines in the medial preoptic area of adult Syrian hamster. *Hormones and Behavior*, 58

H. Richendrfer, J. M. Swann (2009) Sex differences in neuronal subtype of the MPN mag in Syrian hamsters Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2010

H. Richendrfer, J. M. Swann (2009) THE MPN mag of Syran hamsters is sexually dimorphic in neuronal subtype. *Hormones and Behavior* 56, pg 76

J. M. Heitzer, J. M. Swann (2008) Circadian variations of cell proliferation in the dentate gyrus of the adult hamster. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience 2008

H. Richendrfer, J. M. Swann (2008) Sex differences during development of the MPN mag in Syrian hamsters using NeuN labeling. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience 2008

J. Wetzel, H. Richendrfer, *J. M. Swann (2008) The role of apoptosis in sexual differentiation of the MPN mag of the Syrian hamster. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience 2008

J. M. Heitzer, J. M. Swann (2006) Pheromonal influences on Fos expression in the anteroventral periventricular nucleus of the male Syrian hamster. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience 2006

H. Richendrfer, J. M. Swann (2006) Projections from the MPN mag to the LPGi in male and female Syrian hamsters. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2006

X. Li, J. M. Swann (2006) The effect of testosterone on synaptic density in the MPN mag using synaptophysin and gephyrin as markers. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2006

Li, X. and J.M. Swann, (2005) Synaptic density in the MPN mag under the effect of testosterone. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2005

Li, X. and J.M. Swann, (2005) Synaptic density in the MPN mag using synaptophysin as a marker. *Hormones and Behavior*. 48(1): p. 111

Rhodes, K and Swann JM. Postnatal steroid treatment alters hormonal regulation of social preference. *Hormones and Behavior* 48 (1) 222.

Swann,J.M.and N.Singh (2004) Time course of differential cell death in the magnocellular preoptic nucleus (MPN mag) of the Syrian hamster. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2004

Goldberg, J., M. Wilkens and J. Swann (2004) Oil, cupid's arrow. Store bought oils induce female sex behavior in Syrian hamsters. *Hormones and Behavior* 46 (1) 89.

Motroni, A.K. and J.M. Swann (2004) Neuronal morphology of the magnocellular subdivision of the medial preoptic nucleus using golgi technique in intact and castrated male hamsters. *Hormones and Behavior* 46 (1) 96

Peiris, N.B. and J.M Swann, (2004) Projections from the magnocellular subdivision of the medial preoptic nucleus to the deep mesencephalic nucleus in male and female Syrian hamsters. *Hormones and Behavior* 46 (1) 98

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Stephan, F.K. and Swann, J.M. (1978) Anticipation of 24 hour feeding schedules in rats with lesions of the suprachiasmatic nuclei. Abstracts of the Society for Neuroscience 8th Annual Meeting.

PUBLICATIONS - BOOKS & CHAPTERS

Baldwin-SoRelle, C. and Swann, J. M. (2020) "Scholarly Bridges: SciComm Skill-Building with Student-Created Open Educational Resources," in *Open Pedagogy Approaches: Faculty, Library, and Student Collaborations*, ed. Alexis Clifton & Kimberly Hoffman, Milne Library Publishing at SUNY Geneseo.

Swann J., Hall E. (2020) Internal Clocks. In: Vonk J., Shackelford T. (eds) *Encyclopedia of Animal Cognition and Behavior*. Springer, © Springer Nature Switzerland AG 2020

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Petrulis, A., Fiber, J.M., Swann, J.M. (2017) The Medial Amygdala, Hormones, Pheromones, Social Behavior Network, and Mating Behavior. In: Pfaff, D.W and Joëls, M. (editors-in-chief), *Hormones, Brain, and Behavior* 3rd edition, Vol 1. Oxford: Academic Press; pp. 329–343.

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Wood, R.I. and Swann, J. M. (1999) Neuronal integration of chemosensory and hormonal signals in the control of male sexual behavior. In: *Reproduction in Context*, K. Wallen and J. Schneider eds. MIT Press, Cambridge, MA.

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Turek, F.W. Earnest, D.J. and Swann, J.M. (1982) Splitting of the circadian rhythm of activity in the hamster. In: *Vertebrate Circadian Systems: Structure and Physiology*, J. Aschoff, S. Daan and G.A. Gross eds. Springer-Verlag, Berlin.

Swann, J.M. (1984) The circadian system and the estrous cycle of the golden hamster. Ph.D Thesis, Department of Neurobiology and Physiology, Northwestern University.

Swann, J. M. (1979) The role of the vagus and the hypophysis in the entrainment of circadian rhythms by food. M.S Thesis, Psychology Department, Florida State University.

PUBLICATIONS - PROCEEDINGS

Stephan, F.K., Swann, J.M. and Sisk, C.L. (1979) Multioscillator control of circadian rhythms. In: *Psychophysiological aspects of sleep: Proceeding of the Third International Congress of Sleep Research*, Noyes Med. Pub., pp 64-69

Swann, JM and Perreira ND, (2007) Animal-like sensor-based robot motions: learning from nature. An interdisciplinary project for rising sophomores at Lehigh University. Proceedings of IMECE2007.

SELECTED CONFERENCE PAPERS AND INVITED PRESENTATIONS

"Deconstructing Affirmative Action" Lehigh Speaks: Challenging Global Concepts April 4th 2014

"Sex differences in the brain: A Tale of Two Membranes" Morgan State, October 2013

"Sex differences in the brain: A Tale of Two Membranes" Susquehanna University February 2013

"Animal-like sensor-based robot motions: learning from nature. An interdisciplinary project for rising sophomores at Lehigh University. Proceedings of IMECE2007 2007 ASME International Mechanical Engineering Congress and Exposition November 11-15, 2007, Seattle, Washington, USA

"Sex, steroids and the nose" Keynote speaker breakfast meeting of the 10th ANNUAL CONFERENCE of the Northeast Undergraduate Research Organization for Neuroscience, Held Saturday April 8, 2006 at Hunter College, CUNY, New York, New York

"Sex Differences in the Organization of the Hamster Brain or This is Your Brain on Steroids" Drew Summer Science Institute, Drew University, August 2004

"Sex Differences in the Organization of the Hamster Brain or This is Your Brain on Steroids" Barnard, NYC April 2004

"Steroidal Regulation of Brain and Behavior" Dept. Psychology & Neuroscience, Ohio State University, Columbus Ohio, April 2004

"Sex Differences in the Organization of the Hamster Brain or This is Your Brain on Steroids" State University of Albany, Psychology Department, July, 2003

"Sexual Differentiation of Chemosensory Pathways in the Hamster" The Biology Department of Spelman College, October, 2003.

"Sex Differences in the Organization of the Hamster Brain or This is Your Brain on Steroids" State University of Albany, Psychology Department, July, 2003

"Sex Differences in Pheromone Mediated Behaviors" Workshop on Steroid Hormones and Brain Function. Breckenridge, Co. March 29 - April 2, 2003

"Hormonal regulation of behavior: a tale of two sexes" 2nd International Meeting on Steroids and the Nervous System Torino (Italy) February 2003

"Neuroanatomical Evidence for the Organizational and Activational Effects of Gonadal Steroids" International Behavioral Neuroscience Society, Capri, Italy, June 19-23, 2002

"This Is Your Brain on Stress: A Tale of Three Men" Key note speaker at Sigma Xi dinner Middle Tennessee State University, March, 2002

"Sex Differences in Brain and Behavior or This is Your Brain on Steroids" Keynote address – Woman's and Black History Month, Middle Tennessee State University, March, 2002

"Sex Differences in Brain and Behavior or This is Your Brain on Steroids" Department of Biology, Middle Tennessee State University, March, 2002

"Sex Differences in Brain and Behavior or This is Your Brain on Steroids" Hershey Medical School, August 2000

"Sex Differences in Brain and Behavior or This is Your Brain on Steroids" Department of Psychology Shippensburg University March 2000

"Sex Differences in Brain and Behavior or This is Your Brain on Steroids" MBRS Program, Hunter College, April 2000

"Sex Differences in Brain and Behavior or This is Your Brain on Steroids" Dept. of Biological Sciences, Smith College, April 2000

"Sex Differences in Brain and Behavior or This is Your Brain on Steroids" Department of Psychology Shippensburg University March 2000

"Sexual Differentiation of the Chemosensory Pathway" Binational Mexico-U.S. Workshop on Reproductive and Behavioral Neuroendocrinology, August, 1999 Queretaro, Mexico

"Organization and Activation of Behavior by Steroids - How Do They Do It? Yale University, May 1999

"Sex Differences in Function of a Pheromonally Stimulated Pathway: Role of Steroids and the Main Olfactory system" August, 1996 Vth International Conference on Hormones, Brain and Behavior, Mian Italy.

"Neural Basis for Sex Specific Behaviors" December 1996, Department of Biology, Millersville University. "Functional and Neurochemical Analysis of the Mating Behavior Pathway in the Male Syrian Hamster". February 1995, Department of Molecular Biology, Lehigh University.

"Functional and Neurochemical Analysis of the Mating Behavior Pathway in the Male Syrian Hamster". February 1995, Department of Biological Sciences, Clark Atlanta University, Atlanta GA

"Neurochemistry of the Vomeronasal Pathway Regulating Male Mating Behavior." Department of Psychology, Lehigh University 1992.

"Effect of Castration and Photoperiod on Neural Transmission in the Male Golden Hamster." Workshop on Photoperiodic Regulation of Reproductive Behavior at the 1992 Meeting of the Society for the Study of Circadian Rhythms.

- "FHVS Stimulates Neuronal Function in the Mating Behavior Pathway of the Syrian Hamster." 1992 Conference on Reproductive Behavior Halifax, Nova Scotia.
- "Steroidal Regulation of Neuropeptides in Male Mating Behavior Pathways." Department of Anatomy, University of Medicine and Dentistry of New Jersey: March, 1991.
- "Steroidal Regulation of Neuropeptides in Brain Pathways Regulating Male Mating Behavior." Neuroscience Program, Michigan State University: September, 1990.
- "Neuropeptides, Steroids and Mating Behavior in the Male Golden Hamster" Department of Physiology, Southern Illinois University: May 1989.
- "Photoperiodic and Neuroendocrine Regulation of Male Hamster Reproduction" Department of Biology, Rutgers University: May, 1987.
- "Photoperiodic and Testicular Regulation of Pulsatile LH Release in the Male Golden Hamster." Department of Anatomy, Rochester University: March, 1986.
- "Role of the Circadian System in Estrous Cycle Regulation." Neuroscience Program, Michigan State University: February, 1985.

PUBLICATIONS - BOOKS & CHAPTERS

Baldwin-SoRelle, C. and Swann, J. M. (2020) "Scholarly Bridges: SciComm Skill-Building with Student-Created Open Educational Resources," in *Open Pedagogy Approaches: Faculty, Library, and Student Collaborations*, ed. Alexis Clifton & Kimberly Hoffman, Milne Library Publishing at SUNY Geneseo.

Swann J., Hall E. (2020) Internal Clocks. In: Vonk J., Shackelford T. (eds) *Encyclopedia of Animal Cognition and Behavior*. Springer, © Springer Nature Switzerland AG 2020

Swann J., Leung C.H. (2019) Psychopharmacology of Sex Steroids. In: Vonk J., Shackelford T. (eds) *Encyclopedia of Animal Cognition and Behavior*. Springer, © Springer Nature Switzerland AG 2020

Petrulis, A., Fiber, J.M., Swann, J.M. (2017) The Medial Amygdala, Hormones, Pheromones, Social Behavior Network, and Mating Behavior. In: Pfaff, D.W and Joëls, M. (editors-in-chief), *Hormones, Brain, and Behavior* 3rd edition, Vol 1. Oxford: Academic Press; pp. 329–343.

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Swann, J. M. (1979) The role of the vagus and the hypophysis in the entrainment of circadian rhythms by food. M.S Thesis, Psychology Department, Florida State University

A condensed list of courses taught

- AAS097, Course Title : Race, Ethnicity, Society: COVID, Term : 2020 Fall Semester, Credit Hours : 1.00
- ARTS095, Course Title : Career Expl & Comm Skills, Term : 2017 Spring Semester, Credit Hours : 1.00
- ARTS098, Course Title : Leadership, Term : 2018 Summer Session, Credit Hours : 1.00
- ARTS098, Course Title : Lehigh Hist & Intellect Heritg, Term : 2018 Fall Semester, Credit Hours : 2.00
- BIOS090, Course Title : Science in the Media, Term : 2018 Fall Semester, Credit Hours : 4.00

BIOS090, Course Title : Your Brain in the News, Term : 2020 Fall Semester, Credit Hours : 4.00
 BIOS095, Course Title : Neuroscience Research, Term : 2014 Summer Session, Credit Hours : 3.00
 BIOS095, Course Title : Social Immunity, Term : 2020 Spring Semester, Credit Hours : 3.00
 BIOS097, Course Title : Science and Society: COVID, Term : 2020 Fall Semester, Credit Hours : 1.00
 BIOS161, Course Title : Supervised Research, Term : 2020 Fall Semester, Credit Hours : 1.00
 BIOS235, Course Title : Human Physiology, Term : 2013 Fall Semester, Credit Hours : 4.00
 BIOS261, Course Title : Special Topics In Bios, Term : 2019 Fall Semester, Credit Hours : 1.00
 BIOS262, Course Title : Research Proposal, Term : 2017 Fall Semester, Credit Hours : 3.00
 BIOS277, Course Title : Experimental Neuroscience Lab, Term : 2014 Spring Semester, Credit Hours : 2.00
 BIOS300, Course Title : Apprentice Teaching, Term : 2014 Spring Semester, Credit Hours : 2.00
 BIOS332, Course Title : Behavioral Neuroanatomy, Term : 2020 Spring Semester, Credit Hours : 3.00
 BIOS383, Course Title : Biological Sciences Colloquia, Term : 2019 Fall Semester, Credit Hours : 1.00
 BIOS391, Course Title : Undergraduate Research, Term : 2018 Spring Semester, Credit Hours : 3.00
 BIOS393, Course Title : Thesis, Term : 2018 Spring Semester, Credit Hours : 3.00
 BIOS395, Course Title : Behavioral Neuroanatomy, Term : 2015 Spring Semester, Credit Hours : 3.00
 BIOS407, Course Title : Research in Biological Science, Term : 2018 Spring Semester, Credit Hours : 8.00
 BIOS407, Course Title : Research in Biological Science, Term : 2017 Fall Semester, Credit Hours : 3.00

DR. JENNIFER SWANN – GRADUATE STUDENT SUPERVISION:

PhD STUDENTS - ADVISOR:

Jeannie Fiber - PhD 1995	Institute for Animal Behavior,	Rutgers University
Vicky Schwartz - PhD 1996	Institute for Animal Behavior,	Rutgers University
Jing Wang - 2003	Department of Biological Sciences;	Lehigh University, PhD
Jonathan Fadem - Holly Richendrfer - 2010	Department of Biological Sciences, Department of Biological Sciences,	Lehigh University Lehigh University, PhD
Jeannie Heitzer - 2012	Department of Biological Sciences,	Lehigh University, PhD
Tim Garelick - Joe Brague - Justina Wise - Nunana Gamedoagbao -	Department of Biological Sciences, Department of Biological Sciences, Department of Biological Sciences, Department of Biological Sciences,	Lehigh University Lehigh University Lehigh University Lehigh University

PhD THESIS COMMITTEE:

Noah Benton - 2015	Department of Biological Sciences,	Lehigh University, PhD
Kim Little - 2013	Department of Biological Sciences,	Lehigh University, PhD
Jennifer Sneckser - 2010	Department of Biological Sciences,	Lehigh University, PhD
Jennifer Gumm - 2009	Department of Biologic al Sciences,	Lehigh University, PhD
Laura Syzmanski - 2008	Department of Biological Sciences,	Lehigh University, PhD

Jennifer Gagliardi - 2007	Department of Biological Sciences,	Lehigh University, PhD
Carol Buckley - 2007	Department of Biological Sciences,	Lehigh University PhD
Robert Blum - 2006	Department of Biological Sciences,	Lehigh University, PhD
Sandra Chinapen - PhD 1997	Institute for Animal Behavior,	Lehigh University,

DR. JENNIFER SWANN – MASTERS STUDENT ADVISOR:

Elizabeth Govek - MS 2006	Dan Zhou - MS 1998	Xinliang Li - MS 2006
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ROTATIONS:

Carlos Paladini -	PhD Institute for Animal Behavior,	Rutgers University
Meri Damlama -	PhD CMBN Program,	Rutgers University
Kevin Byrnes -	Masters Student in Biological Sciences,	Rutgers University
Jim Fitzgerald -	Masters Student in Biological Sciences,	Rutgers University
Chenita Newton -	Biological Sciences supported by MBRS Program,	Rutgers University
Laura Szymanski -	Department of Biological Sciences,	Lehigh University

DR. JENNIFER SWANN – UNDERGRADUATE STUDENT SUPERVISION:

LEHIGH UNIVERSITY:

UNDERGRADS - HONORS PROJECTS:

Anna Childson,	Eric Matthews,	Lindsay Dawson Awani,
Kimberly Jordan,	Sharon Chinthrajah,	Elana Nack,
Kimberly Rhodes,	Keith Dombrowski,	Swarupa Kancherla,
Niluk Peiris,	Sharon Roman,	Aron Hechtman,
Olga Argeros,	Vera Partem,	Joslyn Josephs

LEHIGH UNDERGRADS - SUPERVISED RESEARCH:

Dean Granot,	Cassandra Mifkovich,	Anita Thomas,
Clifford Zinn,	Rachel Moquette,	Dede Ayite,
Matthew Asteak,	Hieu Huu Nguyen,	Harly Zelfon,
Hayley Donaldson,	Andrew Stewart,	Johnathan Pinto,
Tiffany Montgomery,	Pamela Wilson,	Josh Goldberg,
Tuan Pham,	Lola Ademosu,	Kelly Durbin,
Cameron Feathers,	Kelly Durbin,	Lola Ademosu,
Cimrin Bhala,	Danielle Freedman,	Magarita Sergonis,
Leah Fendrick,	Jordan Goldberg,	Michelle Williams,
Bill-Bern Balthazar,	Cassandra Mifkovic,	Christine Roque,
Amanda Dilger,	Sean Keck,	Folsahde Adeshuko,
Amber Horner,	Sheila Ramanathan,	Tosha Asumuth,
Justin Johannesen,	Stephanie Rodgers,	Shona Anthony,
Swarupa Kancherla,	Swathi Vijayaraghavan,	Shane Lutz,
Christopher Michael Mcginn,	Tiffany Morrison,	Amy Wall,

Katie Griggs,
Kirstin Thode,
Mike Price,

Arlene Davis,
John Kosteva,
Mari Veilleux,

Allen Gevry,
Beth Siegle

RUTGERS UNIVERSITY:

RUTGERS UNDERGRADS WITH HONORS THESES:

Lance Burroughs,
Faizal Rahaman,

Hany Aziz,
Yeshim Endaz,

Nick Macchione

RUTGERS UNDERGRADS WITH INDEPENDENT RESEARCH:

Georgina Deborah,
Chloe Balfour,
Jerry Sheen,
Nishimita Mody,

Diana Hanson,
Teresa Bijak,
Cordel Nworkeja,
Patria Adames,

Felix Martinez,
Lance Burroughs,
Faizal Rahaman