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One of the largest critiques to the neurochemical foundations of a relationship is the balance and interaction of all of the neurochemicals. Across these stages, each chemical is present. Therefore, future research should review the interaction of these chemicals in relation to reproduction. It is possible with this information, research may stumble on a clearer explanation and mechanisms for the behaviors discussed. Secondly, while these behaviors certainly explain heterosexual relationships (the sole purpose of these behaviors is for reproducing), it is not clear how these models account for the same behaviors presented in homosexuals or various sexualities. Finally, future research should explore how long each stage is. Do the stages have a critical period, can one stage be drawn out longer if needed, or is there an average length of time to go from lust to attachment? Future research should continue to explore these questions, and perhaps shine some more light onto a subject that fascinates nearly everyone.

### References

- Blum, D. (1997). *Sex on the brain: The biological differences between men and women*. Penguin.com.
- Booth, A., & Dabbs, J. M. (1993). Testosterone and men's marriages. *Social Forces*, 72(2), 463-477.
- Carter, C. S. (1992). Oxytocin and sexual behavior. *Neuroscience & Biobehavioral Reviews*, 16(2), 131-144.
- Costa, B., Pini, S., Gabelloni, P., Abelli, M., Lari, L., Cardini, A., & Martini, C. (2009). Oxytocin receptor polymorphisms and adult attachment style in patients with depression. *Psychoneuroendocrinology*, 34(10), 1506-1514.
- Drevets, W. C., Gautier, C., Price, J. C., Kupfer, D. J., Kinahan, P. E., Grace, A. A., ... & Mathis, C. A. (2001). Amphetamine-induced dopamine release in human ventral striatum correlates with euphoria. *Biological psychiatry*, 49(2), 81-96.
- Fisher, H. E. (1998). Lust, attraction, and attachment in mammalian reproduction. *Human Nature*, 9(1), 23-52.
- Fisher, H. (2000). Lust, attraction, attachment: Biology and evolution of the three primary emotion systems for mating, reproduction, and parenting. *Journal of Sex Education and Therapy*, 25(1), 96-104.
- Fisher, H. E., Aron, A., Mashek, D., Li, H., & Brown, L. L. (2002). Defining the brain systems of lust, romantic attraction, and attachment. *Archives of Sexual Behavior*, 31(5), 413-419.
- Gonzaga, G. C., Turner, R. A., Keltner, D., Campos, B., & Altemus, M. (2006). Romantic love and sexual desire in close relationships. *Emotion*, 6(2), 163.
- Griffin, M. G., & Taylor, G. T. (1995). Norepinephrine modulation of social memory: Evidence for a time-dependent functional recovery of behavior. *Behavioral neuroscience*, 109(3), 466.
- Kiyatkin, E. A. (1996). Functional significance of mesolimbic dopamine. *Neuroscience & Biobehavioral Reviews*, 19(4), 573-598.
- Lobo, R. A., Rosen, R. C., Yang, H. M., Block, B., & Van Der Hoop, R. G. (2003). Comparative effects of oral esterified estrogens with and without methyltestosterone on endocrine profiles and dimensions of sexual function in postmenopausal women with hypoactive sexual desire. *Fertility and sterility*, 79(6), 1341-1352.
- Martin-Soelch, C., Leenders, K. L., Chevalley, A. F., Missimer, J., König, G., Magyar, S., & Schultz, W. (2001). Reward mechanisms in the brain and their role in dependence: evidence from neurophysiological and neuroimaging studies. *Brain Research Reviews*, 36(2), 139-149.
- Ogawa, S., Kudo, S., Kitsunai, Y., & Fukuchi, S. (1980). Increase in oxytocin secretion at ejaculation in male. *Clinical endocrinology*, 13(1), 95-97.
- Reeve, J., & Reeve, J. (2001). *Understanding motivation and emotion*. New York: Wiley.
- Ross, H. E., & Young, L. J. (2009). Oxytocin and the neural mechanisms regulating social cognition and affiliative behavior. *Frontiers in neuroendocrinology*, 30(4), 534-547.
- Schiml, P. A., & Rissman, E. F. (2000). Effects of gonadotropin-releasing hormones, corticotropin-releasing hormone, and vasopressin on female sexual behavior. *Hormones and Behavior*, 37(3), 212-220.
- Uvnas-Moberg, K., & Petersson, M. (2005). Oxytocin, a mediator of anti-stress, well-being, social interaction, growth and healing. *Z Psychosom Med Psychother*, 51(1), 57-80.
- Van Londen, L., Goekoop, J. G., Zwinderman, A. H., Lanser, J. B. K., Wiegant, V. M., & De Wied, D. (1998). Neuropsychological performance and plasma cortisol, arginine vasopressin and oxytocin in patients with major depression. *Psychological Medicine*, 28(02), 275-284.















## Editors-in-Chief



**Gregory Farber**, B.S., is a fourth-year deaf Clinical Psychology PhD student at Gallaudet University. Previously, Greg attended Rochester Institute of Technology where he obtained a Bachelor of Science degree in Psychology. His own experiences of deafness and his observation of frustrations and struggles of his deaf peers led him to become fascinated with impact of life experiences on one's development and with psychology in general. Greg knew there is no better place to pursue his dream than Gallaudet University, the cultural mecca for the Deaf community. He remains true to his first psychological interest and his research interests are still closely related with areas of D/deafness, development of D/deaf individuals, and the Deaf community. In the future, Greg hopes to become a Clinical Psychologist serving Deaf community and a professor of psychology. He also hopes to specialize in Developmental Neuropsychology. While in Gallaudet, Greg noticed that the majority of studies and research that his fellow students conduct remain unknown. This observation brought him to the idea of reactivation of the Gallaudet Chronicles of Psychology, a journal where Gallaudet students could publish their findings. As a co-Editor, Greg has two goals - promoting psychological research related to disability and deafness and helping his fellow graduate students to share their works with the rest of the D/deaf community.



**Joanna Dziura** is a fifth-year Clinical Psychology PhD student at Gallaudet University. Previously, Joanna attended Wroclaw University in Poland, where she obtained a Master of Arts degree in Psychology. Right after graduation, Joanna joined the Polish Army and served for 8 years as a uniformed military psychologist in engineering and armor units. During that time, she was deployed multiple times to Iraq and Afghanistan, where she provided psychological help to soldiers from 18 different nations and multinational civilian contractors. Joanna also served as the Chief of Humanitarian Assistance Coordination Center, where she was assessing the critical needs of local Iraqi institutions and organized financial and material humanitarian help for hospitals, schools, and Non-governmental organizations (NGO). During the time she spent in Iraq and Afghanistan and through work with the civilian population in these countries, Joanna had a chance to observe first-hand the impact that disability had on people's lives. This experience resulted in a strong desire to understand this topic better and specialize in the psychology of health and illness. Currently, her main area of research interest is the late acquisition of visible and hidden physical disabilities in civilian and military populations. Joanna wrote chapters to three books dedicated to military psychology and presented multiple times at professional conferences delivering lectures on pre-deployment psychological preparation of military personnel, PTSD, deployment stress, and issues related to the late acquisition of disability. Joanna also deeply believes that the road to being a great professional starts early in a student's education and requires being actively involved in students' affairs.

## Faculty Editorial Supervisor



**Dr. Lori Day**, Ph.D., received her Ph.D. in Clinical Psychology from Gallaudet University. She completed her internship through the Child and Family track at Baylor College of Medicine in Houston, Texas. She went on to complete her post-doctoral training in Pediatric Neuropsychology at The Kennedy Krieger Institute/Johns Hopkins Medical School. She has been a faculty member in the Clinical Psychology Graduate Program since 2012. Dr. Day's responsibilities include teaching, research, supervision, and mentoring of graduate students. Her current research includes: the adaption of Parent-Child Interaction Therapy (PCIT) to make it accessible for deaf individuals, adaptations of psychological measures for deaf individuals, and the development of a technology based literacy program for deaf students. Additionally, Dr. Day provides behavioral parent training and neuropsychological assessment in private practice, is a reviewer for *The Journal of Deaf Studies and Deaf Education*, is the Faculty Editorial Supervisor for the *Gallaudet Chronicles of Psychology*, and has been a statistical consultant for various research projects.

