Joseph Patrick Moore Jr., Ph.D.

Associate Professor
Department of Anatomical Sciences and Neurobiology

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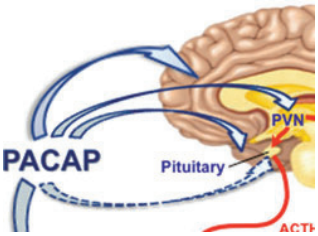

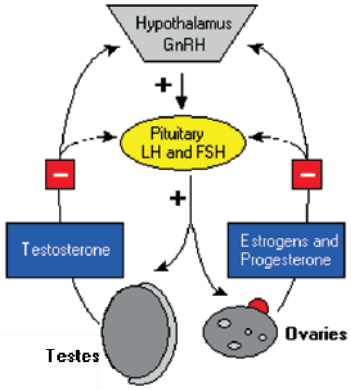

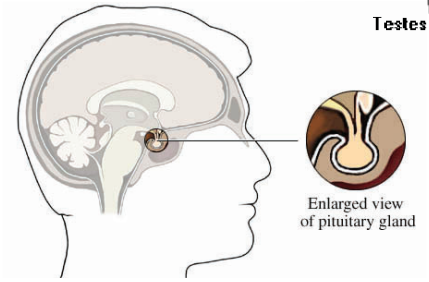

Scholarly Activities:

Dr. Moore's laboratory is interested in the regulation of pituitary hormones, particularly the sex regulating hormones, the gonadotropins. The gonadotropins, luteinizing hormone (LH) and follicle stimulating hormone (FSH), are both produced and secreted from the same cell type however, the secretion of one gonadotropin often predominates. He has previously observed that the neuropeptide pituitary adenylate cyclase activating peptide (PACAP) differentially affects LH and FSH secretion and subunit gene expression in vitro. He has proposed that PACAP may be important in the normal maturation and function of the pituitary-gonadal axis. He is presently performing investigations designed to evaluate possible roles for PACAP in the development, maintenance and aging of the mammalian reproductive system.

Additional research in Dr. Moore's laboratory is directed toward elucidating the effects of maternal offspring interaction on the onset of puberty in the male. Recent work from his laboratory has determined that manipulations of the transition from suckling to independent feeding for male rats results in differential timing of the initiation of puberty. The change in feeding behavior and/or environment is somehow translated into growth and development of the testes and increased production of the gonadotropins. Future studies are proposed to examine the infl uences of social interactions and milk borne products on the timing of puberty in the male.

Grants:

Role: P.I.
Title: Role of PACAP in male pituitary development
University of Louisville, School of Medicine, 03/01/14 – 02/28/15
Basic Science Bridge Grant $40,000

Role: P.I.
Title: Role of PACAP in the Male Fetal Pituitary 1 R01 HD050571-01A2
06/01/11 – 05/31/14 (NCE)
Funding Agency: NIH/NICHD
Direct Costs Funded: $28,096 Direct 2013/14

Publications (2013-2014):

Winters SJ, Ghooray D, Holmes J, O'Brien A, Yang RQ, **Moore JP, Jr.** Dopamine-2 Receptor Activation Decreases PACAP Expression in Gonadotrophs. *Endocrinology,* 2014 Jul;155(7):2647-57

Winters, SJ, King, JC, Brees, CK and **Moore, JP, Jr.** PACAP in Fetal Cord Blood. *Early Hum Dev.* 2014 Sep;90(9):451-3.

External Professional Activities (2013-2014):

- *Ad hoc* reviewer of abstracts submitted for the Endocrine Society's 97th Annual Meeting & Expo, ENDO 2015
- Secretary: Louisville Chapter of Society for Neuroscience
- October 9-10, 2014, Invited Speaker, Fall 2014 Physiology Seminar Series, Southern Illinois University, School of Medicine, Department of Physiology, Carbondale, Illinois. Seminar: *Dopamine-2 Receptor Activation Suppresses PACAP Expression in Perinatal Gonadotrophs*
- 2014 Grant reviewer for General Directorate for Research of the Italian Ministry of Health