

CURRICULUM VITAE

Larry James Petterborg, Ph.D.

Date: February, 2009
Personal Data: Texas Woman's University, School of Physical Therapy
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<u>Education:</u>	<u>Year</u>	<u>Institution</u>	<u>Degree</u>
	1981	University of Texas Health Science Center at San Antonio, Texas (UTHSCSA)	Ph.D. (Biomedical Sciences/Anatomy)
	1977	University of Utah	M.S. (Biology)
	1975	University of Utah	B.S. (Biology)

Dissertation: The reproductive consequences of pineal manipulation and melatonin administration in the white-footed mouse, *Peromyscus leucopus*. 1981. R.J. Reiter, Ph.D., director.

<u>Professional Positions:</u>	<u>Year</u>	<u>Title</u>	<u>Employer</u>
	2008-present	Interim Director, TWU Faculty Center	Texas Woman's University
	2003-present	Professor	School of Physical Therapy Texas Woman's University
	2003-present	Research Professor	Institute of Woman's Health Texas Woman's University
	2002-2003	Associate Research Professor	Institute of Woman's Health Texas Woman's University
	1999-2003	Associate Professor	School of Physical Therapy Texas Woman's University
	1988-98	Associate Professor	Department of Pathology and Anatomical Sciences University of Missouri
	1987-88	Guest Researcher	Karolinska Institute, Dept of Psychiatry, St. Goran's Hospital Stockholm, Sweden
	1982-88	Assistant Professor	Department of Anatomy University of Missouri
	1981-82	Instructor	Department of Anatomy UTHSCSA
	1978-81	Teaching Assistant	Department of Anatomy UTHSCSA

TEACHINGTexas Woman's University

PT 5901, Cadaver Anatomy for OT's*
 PT 5903.41, Anatomy and Physiology of Women*
 PT 5015, Human Gross Anatomy*
 PT 5021, Seminar II (Pathophysiology of Selected Body Systems)*
 PT 5024, Clinical Neuroscience
 PT 5033, Medical Kinesiology
 PT 5062, Medicine and Surgery*
 PT 5122, Clinical Management of the Musculoskeletal System*
 PT 5283, Radiologic Review for Physical Therapists
 PT 5263, Anatomy and Biomechanics of the Upper Quadrant
 PT 5273, Anatomy and Biomechanics of the Lower Quadrant*
 PT 5302, Female Anatomy I*
 PT 5312, Female Anatomy II*
 PT 5903, Anatomy of Women*
 PT 5871/5881/5891, Critical Inquiry in Physical Therapy (Professional Project)
 PT 5901, Anatomy of Women I: an Internet Course*
 PT 5901, Anatomy of Women II: an Internet Course*
 PT 5903, Applied Neuroanatomy and Neurophysiology
 PT 5903, Women's Health: Anatomy*
 PT 5971/5973, Professional Paper*
 PT 6521, Teaching Strategies in Physical Therapy*
 PT 6523, Teaching and Learning in Physical Therapy*

University of Missouri

Medical Developmental and Gross Anatomy
 Reproductive Neuroendocrinology*
 Human Gross Anatomy (for Physical & Occupational Therapy)*
 Elementary Anatomy Lecture*
 Elementary Anatomy Laboratory*
 History of Medicine (Honors College)*
 Career Explorations in Medicine (Honors College)*
 PBL Tutor and Block 1 Coordinator 1993
 PBL Tutor and Anatomy Lab Instructor
 Jump Start* (summer pre-matriculation program)
 Anatomy Coordinator for the 'New Curriculum'
 Fourth Year "Advanced Biomedical Sciences", Clinical Anatomy Electives
 MU High School Student Medical Enrichment Program*
 Kinesiology Laboratory

*Course Director

GRADUATE STUDENT COMMITTEES:Texas Woman's University*DOCTORAL DISSERTATIONS:*

Firra, Joan (2008). Effects of treatment of urinary incontinence in women: exercise or electrical stimulation or both.
 (Committee member)

Lotshaw, Ana (2007). Survival status one-year following lung transplant: the contribution of functional measures at time of registration by diagnostic group. (Committee member)

PROFESSIONAL PAPERS:

- (2001). A patient satisfaction survey of custom-made foot orthotics.
- (2001). Survey of area primary care physicians concerning physical therapy needs of men that run.
- (2001). Relationship of spatial reasoning ability and performance in gross anatomy dissection course among physical therapy students.
- (2001). Annotated web bibliography on exercise during pregnancy: 1985 through 2000.
- (2001). Relationship of spatial reasoning and performance on written gross anatomy examinations in physical therapy students.
- (2001). Annotated web bibliography on exercise for postpartum women.
- (2001). Survey of area primary care physicians concerning physical therapy needs of women that run.
- (2000). A preparation of prosections of neural pathways and anatomical structures in the brain with accompanying study guide.
- (2000). Assessment of common injuries and training practices in woman participating in their first marathon.
- (2000). Antioxidants, exercise and indices of free radical production: a literature review.
- (2000). Effect of gross dissection on spatial reasoning among physical therapy students.
- (2000). Measurement of Glenohumeral joint range of motion: a review of the literature.

PROFESSIONAL PROJECTS:

- (2009). Hand washing in physical therapy clinics.
- (2008). Conflict resolution in PT education.
- (2008). Preparation of academic administrators in PT education: a survey.
- (2008). Anatomy and kinesiology of the shoulder: a video teaching aid.
- (2007). Pubic symphysis dysfunction: a case study.
- (2007). A survey of preparation for PT administrators of academic departments.
- (2007). Conflict resolution in PT education: a pilot study.
- (2006). A PT case study: Shoulder impingement syndrome
- (2006). Effects of weight training on bone mineral density in persons with multiple sclerosis: a grant proposal.
- (2006). Development of a critical thinking portfolio.
- (2005). A PT case study: anterior cruciate ligament repair.
- (2005). A PT case study: posterior fossa syndrome.
- (2004). Survey for critical thinking in entry level physical therapy students.
- (2004). A survey of online anatomy resources for entry level physical therapy students.
- (2004). Relationship of the menstrual cycle to anterior cruciate ligament laxity as determined by the KT-1000 arthrometer.
- (2003). Hippotherapy case studies.
- (2002). Critical thinking in physical therapy.

University of Missouri

- Brunner, Susan, M.A. Exercise Science, 1996.
- Kitchen, Charles A. M.A. Exercise Science, 1995.
- Smith, Thomas D. M.A. Health and Physical Education, 1993.
- Bettencourt, Carlos M. V. Ph.D. Animal Science, 1992.
- West, Douglas. M.S. Vet. Biomedical Sciences, 1990.
- Copeland, Michael L. M.D.-Ph.D. Anatomy, 1989.
- Palmiter-Thomas, Pamela. Ph.D. Anatomy, 1987.

SCHOLARSHIP/CREATIVE ACHIEVEMENTS

REFEREED PUBLICATIONS:

IN PREPARATION

Luedtke-Hoffmann, K and L. Petterborg. Preparation of academic administrators in physical therapy education.

Petterborg, L.J. A gross anatomy learning portfolio for physical therapy students.

PUBLISHED

Feltman, B. and L. Petterborg. (2002). Lymph flow of the digestive tract. *Rehabilitation Oncology* 20: 16-20.

Petterborg, L.J. (2001). Anatomy Online: the start of a certificate program in women's health. *Journal of Physical Therapy Education* 15:47-48.

Sadowsky, H.S. and L.J. Petterborg. (2001). A cardiovascular and pulmonary physical therapy clinical integration course for the post-professional physical therapy student. *Journal of Physical Therapy Education* 15: 51-54

Educational Affairs Committee, American Association of Clinical Anatomists. (2001) Clinical anatomy of the physical examination. Part 1: thorax, abdomen, perineum, and pelvis. *Clinical Anatomy* 14: 332-348.

Educational Affairs Committee, American Association of Clinical Anatomists. (2000). A clinical anatomy curriculum for the medical student of the 21st century: developmental anatomy. *Clinical Anatomy* 13:17-35.

Educational Affairs Committee, American Association of Clinical Anatomists. (1999). The clinical anatomy of several invasive procedures. *Clinical Anatomy* 12:43-54.

Educational Affairs Committee, American Association of Clinical Anatomists. (1996). A clinical anatomy curriculum for the medical student of the 21st century: Gross Anatomy. *Clinical Anatomy* 9:71-99.

Petterborg, L.J., B-E Thalen, B.F. Kjellman, L. Wetterberg. (1991). Effect of melatonin replacement on serum hormone rhythms in a patient lacking endogenous melatonin. *Brain Res. Bull.* 27:181-185.

Petterborg, L.J., D.A. West, P.K. Rudeen, and V.K. Ganjam. (1991). Effect of testosterone replacement on the alteration of steroid metabolism in the hypothalamic-preoptic area (HPOA) of male hamsters treated with melatonin. *Steroids* 56:538-543.

Petterborg, L.J., B.F. Kjellman, B-E. Thalen, and L. Wetterberg. (1991). Effect of a 15 minute light pulse on nighttime serum melatonin levels in human volunteers. *J. Pineal Res.* 10:9-13.

Rudeen, P.K., J.A. Creighton, D.B. Bylund, L.J. Petterborg and S. Paredz. (1990). Effects of light and an alpha-2 adrenergic agonist on serotonin N-acetyltransferase activity in the chick pineal gland. *J. Neural. Trans.* 82:119-129.

Rudeen, P.K., J. Creighton, D.B. Bylund, L.J. Petterborg and S. Paredz. (1990). Ontogeny of light-induced decrease of pineal N-acetyltransferase activity in explanted chick pineal glands. *J. Pineal Res.* 8:153-158.

Petterborg, L.J. and P.K. Rudeen. (1989). Effects of daily afternoon melatonin administration on body weight and

- thyroid hormones in female hamsters. *J. Pineal Res.* 6:367-373.
- Bylund, D.B., P.K., Rudeen, L.J. Petterborg and C. Ray-Prenger. (1988). Identification of α_2 -adrenergic receptors in chicken pineal glands using ^3H -rauwolscine. *J. Neurochem.* 51:81-86.
- Vaughan, M.K., B.A. Richardson, L.J. Petterborg, G.M. Vaughan and R.J. Reiter. (1987). Reproductive effects of 6-chloromelatonin implants and/or injections in male and female Syrian hamsters. *J. Reprod Fert.* 78:381-387.
- Gibbs, F.P., and L.J. Petterborg. (1986). Exercise reduces gonadal atrophy caused by short photoperiod or blinding of hamsters. *Physiol. Behav.* 37: 159-162.
- Vaughan, M.K., B.A. Richardson, L.J. Petterborg, G.M. Vaughan and R.J. Reiter. (1984). Injections and/or implants of 6-chloromelatonin and melatonin: Effects on plasma thyroid hormones in male and female Syrian hamsters. *Biomed. Res.* 5: 413-418.
- Vaughan, M.K., B.A. Richardson, L.J. Petterborg, A.P. Holtorf, G.M. Vaughan, T.H. Champney and R.J. Reiter. (1984). Effects of injections and/or chronic implants of melatonin and 5-methoxytryptamine on plasma thyroid hormones in male and female Syrian hamsters. *Neuroendocrinology.* 39: 361-366.
- Petterborg, L.J., and W.K. Paull. (1984). An immunocytochemical study of the luteinizing hormone-releasing hormone (LHRH) system in the white-footed mouse: Effect of blinding and melatonin. *J. Pineal Res.* 1: 371-380.
- Petterborg, L.J., B.A. Richardson, M.K. Vaughan and R.J. Reiter. (1984). Acute effects of a single afternoon melatonin injection on LH, prolactin and pineal melatonin titers in the Syrian hamster. *J. Neural Trans.* 59: 299-307.
- Petterborg, L.J., M.K. Vaughan, L.Y. Johnson, T.H. Champney and R.J. Reiter. (1984). Modification of testicular and thyroid function by chronic exposure to short photoperiod: A comparison in four rodent species. *Comp. Biochem. Physiol.* 78A: 31-34.
- Karasek, M., N.K.R. Smith, T.S. King, L.J. Petterborg, J.T. Hansen and R.J. Reiter. (1983). Inclusion bodies in pinealocytes of the cotton rat (*Sigmodon hispidus*). *Cell Tissue Res.* 232: 413-420.
- Vaughan, M.K., B.A. Richardson, L.Y. Johnson, L.J. Petterborg, M.C. Powandal R.J. Reiter, and I. Smith. (1983). Natural and synthetic analogues of melatonin and related compounds. 2. Effects on plasma thyroid hormones and cholesterol levels in male Syrian hamsters. *J. Neural Trans.* 56: 279-292.
- Karasek, M., L.J. Petterborg, T.S. King, J.T. Hansen and R.J. Reiter. (1983). Effect of superior cervical ganglionectomy on the ultrastructure of the pinealocyte in the cotton rat (*Sigmodon hispidus*). *Gen. Comp. Endocrinol.* 51: 131-137.
- Karasek, M., T.S. King, J. Brokaw, J.T. Hansen, L.J. Petterborg and R.J. Reiter. (1983). Inverse correlation Between "synaptic" ribbon number and the density of adrenergic nerve endings in the pineal gland of various mammals. *Anat. Rec.* 205: 93-99, 1983.
- Samarasinghe, D.D., L.J. Petterborg, J.W. Zeagler, K.M. Tiang, and R.J. Reiter. (1983). On the occurrence of a myeloid body in pinealocytes of the white-footed mouse, *Peromyscus leucopus*. An electron microscopic study. *Cell Tissue Res.* 228: 649-659.
- Spanel-Borowski, K., L.J. Petterborg and R.J. Reiter. (1983). Morphological and morphometric changes in the ovaries of white-footed mice (*Peromyscus leucopus*) following exposure to long or short photoperiod.

- Anatomical Rec. 205: 13-19.
- Spanel-Borowski, K., A. Bartke, L.J. Petterborg and R.J. Reiter. (1983). A possible mechanism of rapid luteolysis in white-footed mice, *Peromyscus leucopus*. J. Morph. 176: 225-234.
- Spanel-Borowski, K., B.A. Richardson, T.S. King, L.J. Petterborg and R.J. Reiter. (1983). Follicular growth, intra-ovarian and extra-ovarian oocyte release after daily injections of melatonin and 6-chloro-melatonin in the Syrian hamster. Am. J. Anat. 167: 371-380.
- Karasek, M., T.S. King, L.J. Petterborg, J.T. Hansen and R.J. Reiter. (1982). Unusual cytoplasmic inclusion bodies in the pinealocytes of the cotton rat (*Sigmodon hispidus*). Folia Morphol. (Warsz.) XLI: 347-352.
- King, T.S., M. Karasek, L.J. Petterborg, J.T. Hansen, and R.J. Reiter. (1982). Effects of advancing age on the Ultrastructure of pinealocytes in the male white-footed mouse (*Peromyscus leucopus*). J. Exp. Zool. 224: 1227-1234.
- Spanel-Borowski, K., L.J. Petterborg and R.J. Reiter. (1982). Preantral intra-ovarian oocyte release in the white-footed mouse, *Peromyscus leucopus*. Cell Tiss. Res. 226: 461-464.
- Brainard, G.C., L.J. Petterborg, B.A. Richardson and R.J. Reiter. (1982). Pineal melatonin in Syrian hamsters: circadian and seasonal rhythms in animals maintained under laboratory and natural conditions. Neuroendocrinology. 35: 342-348.
- Petterborg, L.J., and R.J. Reiter. (1982). Effect of photoperiod and pineal indoles on the reproductive system of young female white-footed mice. J. Neural Trans. 55: 149-155.
- Rowsemitt, C.N., L.J. Petterborg, L.E. Claypool, F.C. Hoppensteadt, N.C. Negus and P.J. Berger. (1982). Photoperiodic of induction of diurnal locomotor activity in *Microtus montanus*, the montane vole. Can. J. Zool. 60: 2798-2804.
- Richardson, B.A., T.S. King, L.J. Petterborg, M.K. Vaughan and R.J. Reiter. (1982). The influence of large doses of melatonin administered in the afternoon on the neuroendocrine-reproductive system of female Syrian hamsters maintained either in a long or short photoperiod. Biomed. Res. 3: 61-69.
- Karasek, M., T.S. King, L.J. Petterborg, J.T. Hansen, A. Bartke and R.J. Reiter. (1982). Dense-core visicles in the mammalian pinealocyte and their relationship to secretory processes. J. Texas Soc. Electron Micro. 1: 13-19.
- Johnson, L.Y., M.K. Vaughan, B.A. Richardson, L.J. Petterborg and R.J. Reiter. (1982). Variation in pineal melatonin content during the estrous cycle of the rat. Proc. Soc. Exp. Biol. Med. 169: 416-419.
- Brainard, G.C., B.A. Richardson, L.J. Petterborg and R.J. Reiter. (1982). The effect of different light intensities on Pineal melatonin content. Brain Res. 233: 75-81.
- Petterborg, L.J., B.A. Richardson and R.J. Reiter. (1981). Effect of long or short photoperiod on pineal melatonin content in the white-footed mouse, *Peromyscus leucopus*. Life Sci. 29: 1623-1627.
- Vaughan, M.K., L.J. Petterborg, L.Y. Johnson, G.M. Vaughan and R.J. Reiter. (1981). Interaction of arginine vasotocin, (deamino-1, 6-dicarba, 8-arginine)-vasotocin and luliberin (LRH) on plasm LH in intact or castrated estrogen-treated male rats. Neuroendocrinol. Lett. 3: 1-6.
- Lipton, J.S., L.J. Petterborg and R. J. Reiter. (1981). Influence of propranolol, phenoxybenzamine or phentolamine on the in vivo nocturnal rise of pineal melatonin levels in the Syrian hamster. Life Sci. 28: 2377-2382.

- Petterborg, L.J., and R.J. Reiter. (1981). Effects of photoperiod and subcutaneous melatonin implants on the reproductive status of adult white-footed mice (Peromyscus leucopus). *J. Andrology*, 2: 222-224.
- Petterborg, L.J., R.J. Reiter and G.C. Brainard. (1981). Ovarian response of pinealectomized and intact white-footed mice kept under naturally short photoperiods. *Experientia*, 37: 247.
- Reiter, R.J., L.J. Petterborg, C. Trakulrunsi and W.K. Trakulrunsi. (1980). Surgical removal of the olfactory bulbs increases sensitivity of the inhibitory effects of late afternoon melatonin injections. *J. Exp. Zool.*, 212: 47-52.
- Reiter, R.J., L.Y. Johnson, R.W. Steger, B.A. Richardson and L.J. Petterborg. (1980). Pineal biosynthetic activity and neuroendocrine physiology in the aging hamster and gerbil. *Peptides*, [Suppl.] 3: 66-77.
- Petterborg, L.J., R.C. Philo and R.J. Reiter. (1980). The pineal body and pinealectomy in the cotton rat, Sigmodon hispidus. *Acta Anat. (Basel)*, 107: 108-113, 1980.
- Vaughan, M.K., L.Y. Johnson, D.E. Blask, G.C. Brainard, D.T. Dinh, L.J. Petterborg and R.J. Reiter. (1980). Effect of synthetic theonyl-serine-lysine (TSL), a proposed pineal peptide, on reproductive organ weights and plasma and pituitary levels of LH, FSH and prolactin in intact and castrated immature and adult male rodents. *Neuroendocrinol. Lett.*, 2: 235-240.
- Johnson, L.Y., M.K. Vaughan, R.J. Reiter, L.J. Petterborg and H.J. Chen. (1980). Acute effects of arginine vasotocin on plasma and pituitary levels of prolactin in the male rat: influence of urethane anesthesia. *Horm. Res.*, 13: 109-120.
- Petterborg, L.J., and R.J. Reiter(1980). Effect of photoperiod and melatonin on testicular development in the white-footed mouse, Peromyscus leucopus. *J. Reprod. Fertil.*, 60: 209-212.
- Reiter, R.J., L.J. Petterborg and R.C. Philo. (1979). Refractoriness to the antigonadotrophic effects of melatonin in male hamsters and its interruption by exposure of the animals to long daily photoperiods. *Life Sci.*, 25: 1571-1576.
- Matsushima, S., Y. Morisawa, L.J. Petterborg, J.W. Zeagler and R.J. Reiter. (1979). Ultrastructure of pinealocytes of the cotton rat, Sigmodon hispidus. *Cell Tissue Res.*, 204: 407-416.
- Vaughan, M.K., C. Trakulrunsi, L.J. Petterborg, L.Y. Johnson, D.E. Blask, W. Trakulrunsi and R.J. Reiter. (1979). Interaction of luteinizing hormone-releasing hormone, cyproterone acetate and arginine vasotocin on plasma levels of luteinizing hormone in intact and castrated adult male rats. *Mol. Cell. Endocrinol.*, 14: 59-71.
- Petterborg, L.J. (1978). Effect of photoperiod on body weight in the vole, Microtus montanus. *Can. J. Zool.*, 56: 431-435.

Nonrefereed:

- Petterborg, L.J. (2006). A human gross anatomy learning portfolio for physical therapy students. Proceedings of the International Sun Conference on Teaching and Learning. March, 2006. El Paso, TX.
(<http://sunconference.utep.edu/SunHome/2006/proceedings2006.html>)
- Petterborg, L.J. (1986). Photoperiod, pineal, and reproduction in the white-footed mouse, Peromyscus leucopus. In: Advances in Pineal Research:1. R.J. Reiter and M. Karasek (Eds.), John Libbey & Co. Ltd., London, pp. 177-183.

- Petterborg, L.J. (1985). Effect of melatonin administration on the neuroendocrine-reproductive axis of the white-footed mouse. In: The Pineal Gland Endocrine Aspects. G.M. Brown and S.D. Wainwright (Eds.), Pergamon Press, New York, pp. 133-138.
- Vaughan, M.K., B.A. Richardson, L.J. Petterborg, G.M. Vaughan and R.J. Reiter. (1985). Pineal indoles and analogues - effects on thyroxine in the Syrian hamster. In: The Pineal Gland: Endocrine Aspects. G.M. Brown and S.D. Wainwright (Eds.), Pergamon Press, New York, pp. 251-256.
- Rudeen, P.K., and L.J. Petterborg. (1985). Pineal melatonin and the effects of melatonin administration in hamsters maintained in resonance photoperiods. In: The Pineal Gland: Endocrine Aspects. G.M. Brown and S.D. Wainwright (Eds.), Pergamon Press, New York, pp. 109-114.
- Petterborg, L.J. (1983). Photoperiodic regulation of reproduction in the white-footed mouse: neuroendocrine aspects. *Missouri Medicine*, 80: 313-316.
- Matthews, S.A., K.L. Evans, W.W. Morgan, L.J. Petterborg and R.J. Reiter. (1982). Circadian rhythms in pineal norepinephrine, serotonin, serotonin N-acetyltransferase and melatonin in the cotton rat, Sigmodon hispidus. In: The Pineal and its Hormones. R.J. Reiter (Ed.), Alan Liss, New York, pp. 35-44.
- Lipton, J.S., L.J. Petterborg, S. Steinlechner and R.J. Reiter. (1982). In vivo responses of the pineal gland of the Syrian hamster to isoproterenol or norepinephrine. In: The Pineal Gland and it's Hormones. R.J. Reiter (Ed.), Alan Liss, New York, pp. 107-116.
- Richardson, B.A., L.J. Petterborg, M.K. Vaughan, T.S. King and R. J. Reiter. (1982). The effect of twice daily gonadotropin-releasing hormone (GnRH) administration and/or renal pituitary homografts on melatonin-induced gonadal atrophy in male Syrian hamsters. In: The Pineal and Its Hormones. R.J. Reiter (Ed.), Alan Liss, New York, pp. 129-142.
- Reiter, R.J., L.J. Petterborg, G.C. Brainard, III, R. de los Santos, J.C. Guerra and D. T. Dinh. (1981). Photoperiod and melatonin in the control of the annual cycle of reproduction in the hamster. In: Pineal Function. C.D. Matthews and R.F. Seamark (Eds.), Elsevier/North Holland, 95-102.
- Vaughan, M.K., L.Y. Johnson, D.T. Dinh, G.C. Brainard, L.J. Petterborg, J. C. Guerra and R.J. Reiter. (1980). Influence of thr-ser-lys (TSL), a recently isolated pineal peptide, on ovarian and uterine weights and estrous cycles in mice, hamsters and rats. In: Pineal Function. C.D. Matthews and R.F. Seamark (Eds.). Elsevier/North Holland, 165-172.

Abstracts:

- Luedtke-Hoffmann, K and L. Petterborg (2008). Preparation of academic administrators in physical therapy education: a survey. American Physical Therapy Association Annual Conference.
- Petterborg, L., S. Schafer, B. Caldwell, and A. Sauters (2007). Conflict resolution in physical therapy education: a pilot study. Texas Society of Allied Health Professions, Fall Conference and Annual Meeting.
- Petterborg, L.J. (2007). A learning portfolio for gross anatomy students. *Clin. Anat.* 20:728-729.
- Petterborg, L.J. (2006). A human gross anatomy learning portfolio for physical therapy students. The International Sun Conference on Teaching and Learning, March, 2006. El Paso, TX.
- Petterborg, L.J. (2005). Virtual health care team: interdisciplinary case studies for education in the health professions on the world wide web. Texas Society of Allied Health Professions, Fall Conference and Annual Meeting.

- Petterborg, L.J. (2004). Development of critical thinking in physical therapy students: what is critical thinking, can we teach it, and how can it be documented? Texas Society of Allied Health Professions, Fall Conference and Annual Meeting.
- Kapadia, A., C. McCullough, and L. Petterborg. (2004). A survey of critical thinking in PT curricula. Texas Society of Allied Health Profession, Fall Conference and Annual Meeting.
- Abramov, D., C. Bearden, L. Petterborg, and S. Wang. (2004). Relationship of the menstrual cycle to anterior cruciate ligament laxity as tested by the KT-1000 arthrometer. Texas Physical Therapy Association Annual Conference.
- Petterborg, L.J., S. Schafer and A. Medley. (2003). Utilization of generic abilities in advising first year physical therapy students at Texas Woman's University. Texas Society of Allied Health Professions, Fall Conference and Annual Meeting.
- Petterborg, L.J. (2002). Learning to be a team player: the first semester of physical therapy school. Texas Society of Allied Health Professions, Fall Conference and Annual Meeting.
- Petterborg, L.J. (2002). Team building and peer teaching in a gross anatomy course for physical therapy students. American Association of Clinical Anatomists 19th Annual Meeting.
- Petterborg, L.J., R. Bryant and S. Miller. (2001). Relationship of spatial reasoning test scores and performance in gross anatomy. American Association of Clinical Anatomists 18th Annual Meeting.
- Petterborg, L.J., and D. Norwood. (2000). Effect of dissection on spatial reasoning in PT and OT students. Texas Physical Therapy Association Annual Conference.
- Beal, B., L. Petterborg, and S. Schafer. (2000). Prosections of cerebral neural pathways and anatomical structures: a learning tool. Texas Physical Therapy Association Annual Conference.
- Petterborg, L.J. (1999). From the AACA archives: the 1984 and 1989 annual meetings. American Association of Clinical Anatomists 16th Annual Meeting.
- Petterborg, L.J. (1997). Teaching gross anatomy in a changing curriculum: where are we going? American Association of Clinical Anatomists 14th Annual Meeting.
- Petterborg, L.J., P.K. Rudeen and J.C. Reid. (1997). A curriculum web site for the University of Missouri School of Medicine. Third Biennial International Basic Science Education Forum.
- Petterborg, L.J. (1996). Can cardiac lust be demonstrated in the dissecting laboratory? *Clin. Anat.* 10:135.
- Petterborg, L.J. (1994). The relationship between admissions parameters and student performance in a new problem based curriculum. 33rd Annual Conference on Research in Medical Education, AAMC Annual Meeting.
- Petterborg, L.J. (1994). Gross anatomy in the "New Curriculum". American Association of Clinical Anatomists 11th Annual Meeting.
- Petterborg, L.J., D.A. West, P.K. Rudeen and V. Ganjam. (1990). Effect of testosterone Replacement on HPOA aromatase activity in melatonin-treated male hamsters. *Biol. Reprod.* 42 (Suppl. 1): 99.
- Petterborg, L.J., P.K. Rudeen and B.D. Bylund. (1989). Effect of olfactory bulbectomy on "open field" behavior and brain catecholamines in rats. *Soc. for Neuroscience Abstr.* 15:413.

- Petterborg, L.J., B-E Thalen, B.F. Kjelman and L. Wetterberg. (1989). Effect of melatonin replacement on hormone rhythms in a patient lacking endogenous melatonin. *Endocrine Soc. Abstr.* #1480.
- Petterborg, L.J. and P.K. Rudeen. (1988). Effect of melatonin on hypothalamic catecholamines and estrous cycles in the golden hamster. *J. International Henri-Pierre Klotz d'Endocrinologie Clinique, Abstr.* #18.
- Bylund, D.B., L.J. Petterborg, C. Ray-Prenger and P.K. Rudeen. (1987). Characterization of alpha-2 adrenergic receptors receptors in chicken pineal gland using [³H]rauwolscine. *Soc. for Neuroscience Abstr.* 13: 894.
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- Petterborg, L.J., and R.J. Reiter. (1979). Effect of photoperiod and melatonin on sexual development in the female hamster. *Proc. SW. Sec. Soc. Exp. Biol. Med.*, 1: 38.
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- Petterborg, L., and N.C. Negus. (1978). Activity patterns in Microtus montanus. Fifty-eight Annual Meeting of the American Society of Mammalogists. Abstr. #187.

BOOK CHAPTERS:

- Petterborg, L.J. (2009, in press). Anatomy and Physiology of the Pelvic Floor. In, Women's Health Care in Physical Therapy: Principles and Practices for Rehabilitation Professionals. J.M. Irion and G. L. Irion, Eds.

WEB PUBLICATIONS:

- Petterborg, L.J., P. Hebert and L. Palmer. Posterior Fossa Syndrome. <http://www.vhct.org/case3405/index.htm> (last updated June, 2008)

Petterborg, L.J., J. Beasley and A. Gooch. Anterior Cruciate Ligament.
<http://www.vhct.org/case3505/index.htm> (last updated June, 2008)

Weston, D, Petterborg, L. et. al. Interdisciplinary Geriatric Assessment.
http://www.vhct.org/CIGA_Ames/index.htm
(last updated Dec. 2008)

GRANTS:

DiMarco, N and Larry Petterborg (2009). Effect of an Iodine supplement on biomarkers of thyroid function, body composition, and resting metabolic rate in women, 18 – 45 years of age, NIH, RO3, 2009-2011. (under review)

DiMarco, N and Larry Petterborg (2008). Effect of an Iodine supplement on biomarkers of thyroid function, body composition, and resting metabolic rate in women. Interdisciplinary research proposal to TWU, 2009 -2010. (not funded)

Texas Woman's University, Travel Assistance award (2007) for \$600.00.

Texas Woman's University, Program II Incentive Award Amount = \$1,878, 1999. (Effect of Melatonin on the Elimination of Exercise-induced Free Radicals). Principle Investigator.

Swedish Medical Research Council Postdoctoral Fellowship = \$22,000, 1987-1988.

NIH Grant #R23 HD17655 = \$106,625 (direct costs), 1984-1987 (Fertility Regulatory Action of Melatonin). Principle Investigator.

NIH Postdoctoral Fellowship (1981). (Approved with priority score of 106 but not activated.)

HONORS AND AWARDS:

2004, Completion Ceremony Speaker, TWU School of Physical Therapy, Class of 2004
2003, Completion Ceremony Speaker, TWU School of Physical Therapy, Class of 2003
2002, Completion Ceremony Speaker, TWU School of Physical Therapy, Class of 2002
2001, Completion Ceremony Speaker, TWU School of Physical Therapy, Class of 2001
1999, Officer of Investiture, MU School of Medicine, Graduating Class of 1999
1998, Officer of Investiture, MU School of Medicine, Graduating Class of 1998
1998, "Golden Apple" PBL Teacher of the Year
1998, Excellence in Preclinical Education, Student Affairs Council
1997, Officer of Investiture, Graduating Class of 1997
1997, MUIIT (Institute for Instructional Technology) Fellow
1997, Excellence in Preclinical Education, Student Affairs Council
1997, "Golden Apple" PBL Teacher of the Year
1996, Distinguished Faculty Award, Medical Student Affairs Council
1996, "Golden Apple" PBL Teacher of the Year
1994, "Golden Apple" Basic Sciences Teacher of the Year
1993, Wakonse Conference on College Teaching Fellowship
1987, Service Award, Medical Student Executive Committee
1985, "Golden Apple" Basic Sciences Teacher of the Year
1976 and 1979, Sigma Xi Grant-in-Aid of Research Award
1975, Bicentennial Research Award; The University of Utah

COURSES/WORKSHOPS ATTENDED

APTA Department of Accreditation On-site Reviewer Workshop. 2005. Alexandria, VA.
PRIM&R IRB Fundamentals: IRB 101 and IRB Administrator 101. 2005. Boston, MA
Human Embryology Conference. 1997. Sponsored by the Human Developmental Anatomy Center, National
Museum of Health and Medicine, Armed Forces Institute of Pathology, Washington, D.C.

PROFESSIONAL SERVICE

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

American Association of Clinical Anatomists (1994-present)
(Councilor, 1997-1999, Educational Affairs Committee member)
Texas Society of Allied Health Professions (2001-2007)
(Director 2004-06, Chair Research Award Committee 2005-06)
International Society for the Scholarship of Teaching and Learning (2005 to present)
Commission on Accreditation in Physical Therapy Education (CAPTE) on-site reviewer since 2006.
Texas Faculty Development Network (2008-present)

REVIEWER OF PAPERS FOR THESE JOURNALS:

Biology of Reproduction
Journal of Pineal Research
Life Sciences
Brain Research Bulletin
Pharmacology, Biochemistry and Behavior
Clinical Anatomy
Anatomical Sciences Education

REVIEWER OF BOOKS/CHAPTERS FOR THESE PUBLISHERS

Icon Learning Systems; Teterbro, New Jersey
Lippincott Williams & Wilkins; Philadelphia

GRANTS REVIEWED:

National Science Foundation - Regulatory Biology
March of Dimes Birth Defects Foundation
Fund for the Improvement of Postsecondary Education (FIPSE)

PROFESSIONAL SCHOOL COMMITTEES:

Texas Woman's University (recent)

TWU Course Evaluation Task Force (2007-2009)
Institutional Review Board (2000-Present; Chair 2004-2008)
University Promotion and Tenure Committee (2005-2008)
Professional Program Admissions Committee (2004-Present; Chair 2007-2008)
TWU Faculty Senate (2006-present, currently Speaker Pro Tem)

TWU Faculty Center Advisory Committee (2006-Present)
School of Physical Therapy Faculty Search Committee (2007-Present)
SACS Fifth Year Interim Report Task Force (2008-present)
Associate Provost search committee (2008-2009)

(past)

Graduate Council (1999-2005)
Peer Review Committee (2003-2005; School of Physical Therapy, Chair 2005-2006)
University Technology Committee (2004-2005)
College of Health Sciences Research Council (Chair 2004-2005)
Student Retention Task Force (School of Physical Therapy)
Post-Professional Curriculum Committee (School of Physical Therapy)
Post-Professional Marketing Committee (School of Physical Therapy)
Director of Research (School of Physical Therapy-Dallas 2000-2004)
Scholarship Committee (2003-2004)
College of Health Sciences Ad Hoc Committee on Research (2003-2004)
School of Physical Therapy Director Search Committee (2003-2004)
School of Physical Therapy Associate Director Search Committee (Chair 2006-07)
TWU Summer Stipends Selection Committee (2007)

University of Missouri

Center for Interdisciplinary Geriatric Assessment
Chair, Faculty Grievance Hearing Committee
Committee on Computer Competencies, School of Medicine
Honors Council (1995-1997)
Medical School Curriculum Board (1993-1994, 1997-1999)
Medical School Admissions Committee (1993-1996)
Planning Groups for the "New Curriculum" (1993)
Reproductive Biology Cluster Group, University of Missouri
Graduate Faculty Senate Membership Committee (1986-1987)
Graduate Faculty Senate, University of Missouri-Columbia
Pre-Professional Scholars Program, School of Medicine (1986-1987)
Education Council of the Medical School (1985-87)
Faculty Affairs Council of the Medical School (1985-87)
Director of Graduate Program, Department of Anatomy (1984-87)

INVITED SPEAKER:

Nov. 2005	Texas A&M University, College of Veterinary Medicine. College Station, TX. "Physical Therapy and TWU".
Feb. 2001	American Physical Therapy Association, Combined Section Meeting. San Antonio, TX, "The Clinical Anatomy and Physiology of the Pelvic Floor".

- Apr. 1999 Second Annual Center for Interdisciplinary Geriatric Assessment (CIGA) Spring Institute, 'Interdisciplinary Team Concepts' and "An Introduction to Problem Based Learning (PBL)". University of Missouri.
- June 1998 American Association of Clinical Anatomists Young Anatomists Event, "Teaching Portfolios"
- Nov. 1994 Wakonse Renewal Conference on College Teaching.
- Aug. 1990 Visiting Professor in Embryology and Anatomy, Instituto de Ciencias Biologicas, Universidad Autonoma de Guadalajara, Guadalajara, Jalisco, Mexico
- Sept 1989 Department of Biology, Southwest Missouri State University, Springfield, Missouri
- Feb. 1987 Department of Clinical Chemistry College of Veterinary Medicine Swedish University of Agricultural Sciences, Uppsala, Sweden