CURRICULUM VITAE OF TONY M PLANT

BIOGRAPHICAL

Birth Place:	Guildford, England
Citizenship:	UK/USA
E-mail:	tony.plant@qualityscientificsolutions.com

EDUCATION AND TRAINING

UNDERGRADUATE:

1963-1966	Chelsea College of Science and Technology University of London, UK	B.Sc. - 1966 (upper 2nd Class Honors)	Physiology

GRADUATE:

1966-1969	Institute of Psychiatry University of London, UK	Ph.D. - 1971	Dr. Richard P. Michael Physiology

POST GRADUATE:

1974-1976	Ford Foundation Postdoctoral Research Fellow University of Pittsburgh School of Medicine	Dr. Ernst Knobil Reproductive Endocrinology
1976-1978	NICHHD Postdoctoral Research Fellow University of Pittsburgh School of Medicine	Dr. Ernst Knobil Reproductive Endocrinology

1995-1996	Senior International Fogarty Fellow INSERM U.378 Laboratoire de Neuroendocrinologie Morphofonctionnele Universite de Bordeaux II Bordeaux, France	Dr. Dionysia Theodosis Neuromorphology

APPOINTMENTS AND POSITIONS

ACADEMIC:

1969-1972	Institute of Psychiatry University of London, UK	Research Assistant
1972-1974	Emory University School of Medicine Atlanta, GA	Research Associate
1978-1984	University of Pittsburgh School of Medicine Pittsburgh, PA	Assistant Professor of Physiology
1983-2017	University of Pittsburgh School of Medicine Pittsburgh, PA	Member of Graduate Faculty
1984-1989	University of Pittsburgh School of Medicine Pittsburgh, PA	Associate Professor of Physiology
1984-2007	University of Pittsburgh Pittsburgh, PA	Faculty Member of Center for Neuroscience
1985-2015	University of Pittsburgh School of Medicine Pittsburgh, PA	Director, Center for Research in Reproductive Physiology
1987-2008	University of Pittsburgh School of Medicine Pittsburgh, PA	Director, Postdoctoral Training Program in Reproductive Physiology
1989-2017	University of Pittsburgh School of Medicine Pittsburgh, PA	Professor of Physiology

1993-2015	University of Pittsburgh School of Medicine Pittsburgh, PA	Professor of Cell Biology and Physiology
2000-2013	University of Pittsburgh School of Medicine Pittsburgh, PA	Director, Specialized Cooperative Centers Program in Reproduction Research
2001-2009	Morehouse School of Medicine Atlanta, GA and University of Pittsburgh School of Medicine Pittsburgh, PA	Co-Director, Cooperative Reproductive Science Research Centers at Minority Institutions
2002-2017	University of Pittsburgh School of Medicine Pittsburgh, PA	Professor of Obstetrics, Gynecology and Reproductive Sciences
2007-2017	Magee-Womens Research Institute	Member
2017	University of Pittsburgh School of Medicine Pittsburgh, PA	Awaiting conferral of Emeritus status

PATENTS

Use of GPR54 ligands for treatment of reproductive disorders, proliferative disorders, and for contraception. (Provisional Application, 00786/481002).

MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

1971-1997	Society for Endocrinology
1978-Present	Endocrine Society

1978-Present	Society for the Study of Reproduction
1979-2008	American Physiological Society
1979-2000	Pittsburgh Neuroscience Society
1980-2013	Society for Neuroscience
1989-2000	International Society for Neuroendocrinology
2000-Present	International Neuroendocrine Federation
1999-Present	American Neuroendocrine Society
2001-2008	American Society of Andrology

HONORS

Serono Lectureship, American Society of Andrology Annual Meeting, Montreal, "The GnRH Pulse Generator and the Testis"	1991
Keynote Lecturer, Eighth Annual Reproductive Biology Retreat, Johns Hopkins University and University of Maryland, Baltimore "Human Puberty, A Mysterious Reawakening: Lessons from the Monkey"	2006
President, International Neuroendocrine Federation	2007-2010
Keynote Lecturer, Symposium on Recent Trends in Endocrinology and Reproductive Sciences, Lahore, "Kisspeptin Signaling in the Hypothalamus: A Novel and Major Regulator of the Reproductive Axis"	2007
Elected as Foreign Fellow, Pakistan Academy of Sciences	2007
Dozor Visiting Scholar, Ben-Gurion University of the Negev	2010
Elected Honorary Member, Polish Neuroendocrine Society	2010
International Neuroendocrine Federation Geoffrey Harris Lecturer, 8th International Congress of Neuroendocrinology, Sydney	2014
Elected Honorary Member, British Society for Neuroendocrinology	2014
Lecturer, Julie Betschart Symposium, West Virginia University, "Physiological and Neuroendocrine Control of Puberty in Higher Primates"	2016

PUBLICATIONS

1. Refereed Articles:

1. **Plant TM**, James VHT, and Michael RP. Metabolism of [4-14C] progesterone in the rhesus monkey (*Macaca mulatta*). J Endocrinol 1969; 43: 493-494. PMID: 4976243

2. Michael RP, and **Plant TM**. Contraceptive steroids and sexual activity. Nature 1969; 222: 579-581. PMID: 4181112

3. **Plant TM**, James VHT, and Michael RP. Conversion of [4-^{14}C] progesterone to androsterone by female rhesus monkeys (*Macaca mulatta*). J Endocrinol 1971; 51: 751-761. PMID: 5002998

4. **Plant TM**, Zumpe D, Sauls M, Michael RP. An annual rhythm in the plasma testosterone of adult male rhesus monkeys maintained in the laboratory. J Endocrinol 1974; 62: 403-404. PMID: 4411948

5. **Plant TM,** Michael RP. Urinary excretion of androsterone throughout the menstrual cycle in the rhesus monkey (*Macaca mulatta*). J Reprod Fertil 1974; 41: 205-209. PMID: 4431014

6. Michael RP, Setchell KDR, **Plant TM**. Diurnal changes in plasma testosterone and studies on plasma corticosteroids in nonanesthetized male rhesus monkeys (*Macaca mulatta*). J Endocrinol 1974; 63: 325-335. PMID: 4374486

7. Michael RP, Zumpe D, **Plant TM,** and Evans RG. Annual changes in the sexual potency of captive male rhesus monkeys. J Reprod Fertil 1975; 45: 169-172. PMID: 1195250

8. McCormack JT, **Plant TM**, Hess DL, and Knobil E. The effect of luteinizing hormone releasing hormone (LHRH) antiserum administration on gonadotropin secretion in the rhesus monkey. Endocrinology 1977; 100: 663-667. PMID: 122596

9. Hess DL, Wilkins RH, Moossy J, Chang JL, **Plant TM**, McCormack JT, Nakai Y, and Knobil E. Estrogen-induced gonadotropin surges in decerebrated female rhesus monkeys with medial basal hypothalamic peninsulae. Endocrinology 1977; 101: 1264-1271. PMID: 409600

10. **Plant TM**, Krey LC, Moossy J, McCormack JT, Hess DL, and Knobil E. The arcuate nucleus and the control of gonadotropin and prolactin secretion in the female rhesus monkey (*Macaca mulatta*). Endocrinology 1978; 102: 52-62. PMID: 105866

11. Nakai Y, **Plant TM**, Hess DL, Keogh EJ, and Knobil E. On the sites of the negative and positive feedback actions of estradiol in the control of gonadotropin secretion in the rhesus monkey. Endocrinology 1978; 102: 1008-1014. PMID: 105873

12. **Plant TM**, Nakai Y, Belchetz P, Keogh E, and Knobil E. The sites of action of estradiol and phentolamine in the inhibition of the pulsatile, circhoral discharges of LH in the rhesus monkey (*Macaca mulatta*). Endocrinology 1978; 102:1 015-1018. PMID: 105874

13. **Plant TM**, Hess DL, Hotchkiss J, and Knobil E. Testosterone and the control of gonadotropin secretion in the male rhesus monkey (*Macaca mulatta*). Endocrinology 1978; 103: 535-541. PMID: 105894

14. Belchetz PE, **Plant TM**, Nakai Y, Keogh EJ, and Knobil E. Hypophysial responses to continuous and intermittent delivery of hypothalamic gonadotropin-releasing hormone. Science 1978; 202: 631-633. PMID: 100883

15. **Plant TM**, Moossy J, Hess DL, Nakai Y, McCormack JT, and Knobil E. Further studies on the effects of lesions in the rostral hypothalamus on gonadotropin secretion in the female rhesus monkey (*Macaca mulatta*). Endocrinology 1979; 105:465-473. PMID: 110581

16. Knobil E, **Plant TM**, Wildt L, Belchetz PE, and Marshall G. Control of the rhesus monkey menstrual cycle: Permissive role of the hypothalamic gonadotropin-releasing hormone. Science 1980; 207:1371-1373. PMID: 6766566

17. **Plant TM**. The effects of neonatal orchidectomy on the developmental pattern of gonadotropin secretion in the male rhesus monkey (*Macaca mulatta*). Endocrinology 1980; 106:1451-1454. PMID: 6767597

18. **Plant TM**, E. Schallenberger E, Hess DL, McCormack JT, Dufy-Barbe L and Knobil E. Influence of suckling on gonadotropin secretion in the female rhesus monkey (*Macaca mulatta*). Biol Reprod 1980; 23: 760-766. PMID: 6778516

19. Krey LC, Hess DL, Butler WR, Espinosa-Campos J, Lu KH, Piva F, **Plant TM** and Knobil E. Medial basal hypothalamic disconnection and the onset of puberty in the female rhesus monkey. Endocrinology 1981; 108: 1944-1948. PMID: 6783396

20. **Plant TM**. Time courses of concentrations of circulating gonadotropin, prolactin, testosterone, and cortisol in adult male rhesus monkeys (*Macaca mulatta*) throughout the 24 h light-dark cycle. Biol Reprod 25:244-252, 1981. PMID: 6796135

21. Wildt L, Hausler A, Marshall G, Hutchison JS, **Plant TM**, Belchetz PE and Knobil E. Frequency and amplitude of gonadotropin-releasing hormone stimulation and gonadotropin secretion in the rhesus monkey. Endocrinology 109:376-385, 1981. PMID: 6788538

22. Winters SJ, Troen P and **Plant TM**. Relationship between testosterone binding globulin and the failure of androgens to suppress serum gonadotropin concentrations in long-term castrated adult male rhesus monkeys (*Macaca mulatta*). J Steroid Biochem 14:1223-1227, 1981. PMID: 7198172

23. **Plant TM**. Pulsatile luteinizing hormone secretion in the neonatal male rhesus monkey (*Macaca mulatta*). J Endocrinol 93:71-74, 1982. PMID: 7069347

24. **Plant TM**. Effects of orchidectomy and testosterone replacement treatment on pulsatile luteinizing hormone secretion in the adult rhesus monkey (*Macaca mulatta*). Endocrinology 110:1905-1913, 1982. PMID: 7042318

25. **Plant TM**. A striking diurnal variation in plasma testosterone concentrations in infantile male rhesus monkeys (*Macaca mulatta*). Neuroendocrinology 35:370-373, 1982. PMID: 7145027

26. **Plant TM** and Zorub DS. A study of the role of the adrenal glands in the initiation of the hiatus in gonadotropin secretion during prepubertal development in the male rhesus monkey (*Macaca mulatta*). Endocrinology 114:560-565, 1984. PMID: 6418533

27. Fink G, Sheward WJ and **Plant TM**. The hypogonadal mouse pituitary contains bioactive LH. J Reprod Fert 70:277-280, 1984. PMID: 6694146

28. **Plant TM** and Dubey AK. Evidence from the rhesus monkey (*Macaca mulatta*) for the view that negative feedback control of luteinizing hormone secretion by the testis is mediated by a deceleration of hypothalamic gonadotropin-releasing hormone pulse frequency. Endocrinology 115:2145-2153, 1984. PMID: 6437793

29. **Plant TM**. A study of the role of the postnatal testes in determining the ontogeny of gonadotropin secretion in the male rhesus monkey (*Macaca mulatta*). Endocrinology 116:1341-1350, 1985. PMID: 3971918

30. Dubey AK and **Plant TM**. Testosterone administration to ovariectomized female rhesus monkeys (*Macaca mulatta*) reduces the frequency of pulsatile luteinizing hormone secretion. Biol Reprod 32:1109-1115, 1985. PMID: 4016173

31. Dubey AK and **Plant TM**. A suppression of gonadotropin secretion by cortisol in castrated male rhesus monkeys (*Macaca mulatta*) mediated by the interruption of hypothalamic gonadotropin-releasing hormone release. Biol Reprod 33:423-431, 1985. PMID: 3929850

32. **Plant TM** and Zorub DS. Pinealectomy in agonadal infantile male rhesus monkeys (*Macaca mulatta*) does not interrupt initiation of the prepubertal hiatus in gonadotropin secretion. Endocrinology 118:227-232, 1986. PMID: 3079702

33. Dubey AK, Cameron JL, Steiner RA and **Plant TM**. Inhibition of gonadotropin secretion in castrated male rhesus monkeys (*Macaca mulatta*) induced by dietary restriction: Analogy with the prepubertal hiatus of gonadotropin release. Endocrinology 118:518-525, 1986. PMID: 3080307

34. **Plant TM**. A striking sex difference in the gonadotropin response to gonadectomy during infantile development in the rhesus monkey (*Macaca mulatta*). Endocrinology 119:539-545, 1986. PMID: 3089758

35. Gay VL and **Plant TM**. N-methyl-D,L-aspartate elicits hypothalamic gonadotropin-releasing hormone release in prepubertal male rhesus monkeys (*Macaca mulatta*). Endocrinology 120:2289-2296, 1987. PMID: 3106017

36. Dubey AK, Zeleznik AJ and **Plant TM**. In the rhesus monkey (*Macaca mulatta*), the negative feedback regulation of follicle-stimulating hormone secretion by an action of testicular hormone directly at the level of the anterior pituitary gland cannot be accounted for by either testosterone or estradiol. Endocrinology 121:2229-2237, 1987. PMID: 3119315

37. Arslan M, Pohl CR and **Plant TM**. DL-2-amino-5-phosphonopentanoic acid, a specific N-methyl-D-aspartic acid receptor antagonist, suppresses pulsatile LH release in the rat. Neuroendocrinology 47:465-468, 1988. PMID: 2840595

38. Gay VL and **Plant TM**. Sustained intermittent release of gonadotropin-releasing hormone in the prepubertal male rhesus monkey induced by N-methyl-*DL*-aspartic acid. Neuroendocrinology 48:147-152, 1988. PMID3065674

39. Abeyawardene SA and **Plant TM**. Reconciliation of the paradox that testosterone replacement prevents the postcastration hypersecretion of follicle-stimulating hormone in male rhesus monkeys (*Macaca mulatta*) with an intact central nervous system but not in hypothalamic-lesioned, gonadotropin-releasing hormone-replaced animals. Biol Reprod 40:578-584, 1989. PMID2503069

40. Abeyawardene SA and **Plant TM**. Institution of combined treatment with testosterone and charcoal-extracted porcine follicular fluid immediately after orchidectomy prevents the postcastration hypersecretion of follicle-stimulating hormone in the hypothalamus-lesioned rhesus monkey (*Macaca mulatta*) receiving an invariant intravenous gonadotropin-releasing hormone infusion. Endocrinology 124:1310-1318, 1989. PMID2492926

41. **Plant TM**, Gay VL, Marshall GR and Arslan M. Puberty in monkeys is triggered by chemical stimulation of the hypothalamus. Proc Natl Acad Sci USA 86:2506-2510, 1989. PMID2648405

42. Abeyawardene SA, Vale WW, Marshall GR and **Plant TM**. Circulating inhibin α concentrations in infant, prepubertal, and adult male rhesus monkeys (*Macaca mulatta*) and in juvenile males during premature initiation of puberty with pulsatile gonadotropin-releasing hormone treatment. Endocrinology 125:250-256, 1989. PMID2500325

43. Abeyawardene SA and **Plant TM**. Bilateral orchidectomy and concomitant testosterone replacement in the juvenile male rhesus monkey (*Macaca mulatta*) receiving an invariant intravenous gonadotropin-releasing hormone (GnRH) infusion results, as in the hypothalamus-lesioned GnRH-driven adult male, in a selective hypersecretion of follicle-stimulating hormone. Endocrinology 125:257-259, 1989. PMID2500326

44. Fraser MO, Pohl CR and **Plant TM**. The hypogonadotropic state of the prepubertal male rhesus monkey (*Macaca mulatta*) is not associated with a decrease in hypothalamic gonadotropin-releasing hormone content. Biol Reprod 40:972-980, 1989. PMID2669986

45. Fraser MO and **Plant TM**. Further studies on the role of the gonads in determining the ontogeny of gonadotropin secretion in the guinea pig (*Cavia porcelus*). Endocrinology 125:906-911, 1989. PMID2752984

46. Medhamurthy R, Gay VL and **Plant TM**. The prepubertal hiatus in gonadotropin secretion in the male rhesus monkey (*Macaca mulatta*) does not appear to involve endogenous opioid peptide restraint of hypothalamic gonadotropin-releasing hormone release. Endocrinology 126:1036-1042, 1990. PMID2105200

47. Medhamurthy R, Abeyawardene SA, Culler MD, Negro-Vilar A and **Plant TM**. Immuno-neutralization of circulating inhibin in the hypophysiotropically clamped male rhesus monkey (*Macaca mulatta*)

results in a selective hypersecretion of follicle-stimulating hormone. Endocrinology 126:2116-2124, 1990. PMID2108009

48. Medhamurthy R, Dichek HL, **Plant TM**, Bernardini I and Cutler GB, Jr. Stimulation of gonadotropin secretion in prepubertal monkeys after hypothalamic excitation with aspartate and glutamate. J Clin Endocrinol Metab 71:1390-1392, 1990. PMID2121773

49. Medhamurthy R, Culler MD, Gay VL, Negro-Vilar A and **Plant TM**. Evidence that inhibin plays a major role in the regulation of follicle-stimulating hormone secretion in the fully adult male rhesus monkey (*Macaca mulatta*). Endocrinology 129:389-395, 1991. PMID1905228

50. Winters SJ, Medhamurthy R, Gay VL and **Plant TM**. A comparison of moment to moment and diurnal changes in circulating inhibin and testosterone concentrations in male rhesus monkeys (*Macaca mulatta*). Endocrinology 129:1755-1761, 1991. PMID1915065

51. Arslan M, Pohl CR, Smith MS and **Plant TM**. Studies of the role of the N-methyl-D-aspartate (NMDA) receptor in the hypothalamic control of prolactin secretion. Life Sciences 50:295-300, 1992. PMID1531081

52. Medhamurthy R, Gay VL and **Plant TM**. Repetitive injections of *L*-glutamic acid, in contrast to those of N-methyl-*D,L*-aspartic acid, fail to elicit sustained hypothalamic GnRH release in the prepubertal male rhesus monkey (*Macaca mulatta*). Neuroendocrinology 55:660-666, 1992. PMID1352860

53. Attardi B, Marshall GR, Zorub DS, Winters SJ, Miklos J and **Plant TM**. Effects of orchidectomy on gonadotropin and inhibin subunit messenger ribonucleic acids in the pituitary of the rhesus monkey (*Macaca mulatta*). Endocrinology 130:1238-1244, 1992. PMID1537290

54. Perera AD, Verbalis JG, Mikuma N, Majumdar SS and **Plant TM**. Cholecystokinin stimulates gonadotropin-releasing hormone release in the monkey (*Macaca mulatta*). Endocrinology 132:1723-1728, 1993. PMID8462472

55. Gay VL, Mikuma N and **Plant TM**. Remote and chronic access to the third cerebral ventricle of the unrestrained prepubertal rhesus monkey. Am J Physiol 264:E476-E481, 1993. PMID8460695

56. Perera AD, Lagenaur CF and **Plant TM**. Postnatal expression of polysialic acid-neural cell adhesion molecule in the hypothalamus of the male rhesus monkey (*Macaca mulatta*). Endocrinology 133:2729-2735, 1993. PMID7694845

57. Goldsmith PC, Thind KK, Perera AD and **Plant TM**. Glutamate-immunoreactive neurons and their gonadotropin-releasing hormone-neuronal interactions in the monkey hypothalamus. Endocrinology 134:858-868, 1994. PMID7905410

58. Majumdar SS, Mikuma N, Ishwad PC, Winters SJ, Attardi BJ, Perera AD and **Plant TM**. Replacement with recombinant human inhibin immediately after orchidectomy in the hypophysiotropically clamped male rhesus monkey (*Macaca mulatta*) maintains follicle-stimulating hormone (FSH) secretion and FSHß messenger ribonucleic acid levels at precastration values. Endocrinology 136:1969-1977, 1995. PMID7720645

59. Pohl CR, deRidder CM and **Plant TM**. Gonadal and nongonadal mechanisms contribute to the prepubertal hiatus in gonadotropin secretion in the female rhesus monkey (*Macaca mulatta*). J Clin Endocrinol Metab 80:2094-2101, 1995. PMID7608261

60. Marshall GR, Zorub DS and **Plant TM**. Follicle-stimulating hormone amplifies the population of differentiated spermatogonia in the hypophysectomized testosterone-replaced adult rhesus monkey (*Macaca mulatta*). Endocrinology 136:3504-3511, 1995. PMID7628387

61. Marshall GR and **Plant TM**. Puberty occurring either spontaneously or induced precociously in rhesus monkey (*Macaca mulatta*) is associated with a marked proliferation of Sertoli cells. Biol Reprod 54:1192-1199, 1996. PMID8724345

62. Majumdar SS, Winters SJ and **Plant TM**. A study of the relative roles of follicle-stimulating hormone and luteinizing hormone in the regulation of testicular inhibin secretion in the rhesus monkey (*Macaca mulatta*). Endocrinology 138:1363-1373, 1997. PMID9075690

63. Perera AD and **Plant TM**. Ultrastructural studies of neuronal correlates of the pubertal reaugmentation of hypothalamic gonadotropin-releasing hormone (GnRH) release in the rhesus monkey (*Macaca mulatta*). J Comp Neuro 385:71-82, 1997. PMID9268117

64. **Plant TM**, Padmanabhan V, Ramaswamy S, McConnell DS, Winters SJ, Groome N, Midgley Jr. AR and McNeilly AS. Circulating concentrations of dimeric inhibin A and B in the male rhesus monkey (*Macaca mulatta*). J Clin Endocrinol Metab 82:2617-2621, 1997. PMID9253343

65. **Plant TM** and Durrant AR. Circulating leptin does not appear to provide a signal for triggering the initiation of puberty in the male rhesus monkey (*Macaca mulatta*). Endocrinology 138:4505-4508, 1997. PMID9322973

66. Majumdar SS, Winters SJ and **Plant TM**. Procedures for the isolation and culture of Sertoli cells from the testes of infant, juvenile, and adult rhesus monkeys (*Macaca mulatta*). Biol Reprod 58:633-640, 1998. PMID9510950

67. El Majdoubi M, Sahu A and **Plant TM**. Effect of estrogen on hypothalamic transforming growth factor alpha and gonadotropin-releasing hormone gene expression in the female rhesus monkey. Neuroendocrinology 67:228-235, 1998. PMID9588692

68. Suter KJ, Pohl CR and **Plant TM**. The pattern and tempo of the pubertal reaugmentation of open-loop pulsatile gonadotropin-releasing hormone release assessed indirectly in the male rhesus monkey (*Macaca mulatta*). Endocrinology 139:2774-2783, 1998. PMID9607784

69. Ramaswamy S, Pohl CR, McNeilly AS, Winters SJ and **Plant TM**. The time course of follicle-stimulating hormone suppression by recombinant human inhibin A in the adult male rhesus monkey (*Macaca mulatta*). Endocrinology 139:3409-3415, 1998. PMID9681490

70. Suter KJ, Pohl CR and **Plant TM**. Indirect assessment of pulsatile gonadotropin-releasing hormone release in agonadal prepubertal rhesus monkeys (*Macaca mulatta*). J Endocrinol 160:35-41, 1999. PMID9854174

71. Ramaswamy S, Marshall GR, McNeilly AS and **Plant TM**. Evidence that in a physiological setting Sertoli cell number is the major determinant of circulating concentrations of inhibin B in the adult male rhesus monkey (*Macaca mulatta*). J Androl 20:430-434, 1999. PMID10386823

72. Durrant AR and **Plant TM**. A study of the gonadotropin releasing hormone neuronal network in the median eminence of the rhesus monkey (*Macaca mulatta*) using a post-embedding immunolabelling procedure. J Neuroendocrinol 11:813-821, 1999. PMID10520131

73. Winters SJ and **Plant TM**. Partial characterization of circulating inhibin-B and pro-αC during development in the male rhesus monkey. Endocrinology 140:5497-5504, 1999. PMID10579312

74. Ramaswamy S, Marshall GR, McNeilly AS and **Plant TM**. Dynamics of the follicle-stimulating hormone (FSH)-inhibin B feedback loop and its role in regulating spermatogenesis in the adult male rhesus monkey (*Macaca mulatta*) as revealed by unilateral orchidectomy. Endocrinology 141:18-27, 2000. PMID10614619

75. El Majdoubi M, Ramaswamy S, Sahu A and **Plant TM**. Effects of orchidectomy on levels of the mRNAs encoding gonadotropin-releasing hormone and other hypothalamic peptides in the adult male rhesus monkey (*Macaca mulatta*). J Neuroendocrinol 12:167-176, 2000. PMID10718912

76. El Majdoubi M, Sahu A, Ramaswamy S and **Plant TM**. Neuropeptide Y: A hypothalamic brake restraining the onset of puberty in primates. Proc Natl Acad Sci,USA 97:6179-6184, 2000. PMID 10811877

77. Ramaswamy S, **Plant TM** and Marshall GR. Pulsatile stimulation with recombinant single chain human luteinizing hormone elicits precocious Sertoli cell proliferation in the juvenile male rhesus monkey (*Macaca mulatta*). Biol Reprod 63:82-88, 2000. PMID10859245

78. El Majdoubi M, Sahu A and **Plant TM**. Changes in hypothalamic gene expression associated with the arrest of pulsatile gonadotropin-releasing hormone release during infancy in the agonadal male rhesus monkey (*Macaca mulatta*). Endocrinology 141:3273-3277, 2000. PMID10965898

79. Winters SJ, Kawakami S, Sahu A and **Plant TM**. Pituitary follistatin and activin gene expression, and the testicular regulation of FSH in the adult rhesus monkey (*Macaca mulatta*). Endocrinology 142: 2874-2878, 2001. PMID11416006

80. Ravindranath N, Ioffe SL, Marshall GR, Ramaswamy S, **Plant TM** and Dym M. Androgen depletion activates telomerase in the prostate of the nonhuman primate, *Macaca mulatta*. Prostate 49:79-89, 2001. PMID11550213

81. Barker-Gibb ML, Sahu A, Pohl CR and **Plant TM**. Elevating circulating leptin in prepubertal male rhesus monkeys (*Macaca mulatta*) does not elicit precocious gonadotropin-releasing hormone release, assessed indirectly. J Clin Endocrinol Metab 87:4976-4983, 2002. PMID12414861

82. Ramaswamy S, Marshall GR, Pohl CR, Friedman RL and **Plant TM**. Inhibitory and stimulatory regulation of testicular inhibin B secretion by luteinizing hormone and follicle-stimulating hormone, respectively, in the rhesus monkey (*Macaca mulatta*). Endocrinology 144:1175-1185, 2003. PMID12639898

83. Shahab M, Balasubramaniam A, Sahu A and **Plant TM**. Central nervous system receptors involved in mediating the inhibitory action of neuropeptide Y on luteinizing hormone secretion in the male rhesus monkey (*Macaca mulatta*). J Neuroendocrinol 15:965-970, 2003. PMID12969241

84. Simorangkir DR, Marshall GR and **Plant TM**. Sertoli cell proliferation during prepubertal development in the rhesus monkey (*Macaca mulatta*) is maximal during infancy when gonadotropin secretion is robust. J Clin Endocrinol Metab 88:4984-4989, 2003. PMID14557484

85. Goldsmith LT, Weiss G, Palejwala S, **Plant TM**, Wojtczuk A, Lambert WC, Ammur N, Heller D, Skurnick JH, Edwards D and Cole DM. Relaxin regulation of endometrial structure and function in the rhesus monkey. Proc Nat Acad Sci 101:4685-4689, 2004. PMCID: PMC384807

86. Cunningham MJ, Shahab M, Grove KL, Scarlett JM, **Plant TM**, Cameron JL, Smith SM, Clifton DK and Steiner RA. Galanin-like peptide as a possible link between metabolism and reproduction in the macaque. J Clin Endocrinol Metab 89:1760-1766, 2004. PMID15070942

87. Barker-Gibb M, **Plant TM**, White C, Lee PA and Witchel SF. Genotype analysis of the neuropeptide Y (NPY) Y1 and NPY Y5 receptor genes in gonadotropin-releasing hormone-dependent precocious gonadarche. Fertil Steril 82:491-494, 2004. PMID15302312

88. Ramaswamy S, Pohl CR, Marshall GR and **Plant TM**. A switch from continuous to episodic testicular testosterone release in response to pulsatile LH stimulation in juvenile rhesus monkeys (*Macaca mulatta*). J Endocrinol 183:61-68, 2004. PMID15525574.

89. Simorangkir DR, Ramaswamy S, Marshall GR and **Plant TM**. In the adult male rhesus monkey (*Macaca mulatta*), unilateral orchidectomy in the face of unchanging gonadotropin stimulation results in partial compensation of testosterone secretion by the remaining testis. Endocrinology 145:5115-5210, 2004. PMID15308611

90. Bernard DJ, Woodruff TK and **Plant TM**. Cloning of a novel inhibin alpha cDNA from rhesus monkey testis. Reprod Biol Endocrinol 2:71-81, 2004. PMCID: PMC526212

91. Fraser MO, Arslan M and **Plant TM**. Androgen and estrogen treatment, alone or in combination, differentially influences bone maturation and hypothalamic mechanisms that time puberty in the male rhesus monkey (*Macaca mulatta*). Ped Res 57:141-148, 2005. PMID15557106

92. Shahab M, Mastronardi C, Seminara SB, Crowley WF, Ojeda SR and **Plant TM**. Increased hypothalamic GPR54 signaling: a potential mechanism for initiation of puberty in primates. Proc Natl Acad Sci USA 102:2129-2134, 2005. PMCID: PMC548549.

93. Bhat GK, **Plant TM** and Mann DR. Relationship between serum concentrations of leptin, soluble leptin receptor, testosterone and IGF-I, and growth during the first year of postnatal life in the male rhesus monkey, *Macaca mulatta*. Eur J Endocrinol 153:153-158, 2005. PMID15994757

94. Marshall GR, Ramaswamy S and **Plant TM**. Gonadotropin independent proliferation of the pale type A spermatogonia in the adult rhesus monkey (*Macaca mulatta*). Biol Reprod 73:222-229, 2005. PMID15758149

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128. Mann DR, Bhat GK and **Plant TM**. Relationship between serum leptin and testosterone concentrations and growth during infancy in male rhesus monkeys, *Macaca mulatta*. 85th Annual Meeting of The Endocrine Society; Abstract #P1-199, 2003 June; Philadelphia, PA.

129. Goldsmith LT, Weiss G, Palejwala S, **Plant TM**, Skurnick JH and Wojtezuk A. Relaxin regulation of rhesus monkey endometrial function: Inhibin of expression of estrogen receptor alpha, progesterone receptor, COX-2 and matrix metalloproteinases. 85th Annual Meeting of The Endocrine Society; Abstract #P1-702, 2003 June; Philadelphia, PA.

130. Goldsmith LT, Weiss G, **Plant TM**, Cole D, Skurnick JH and Lambert, WC. Relaxin regulation of rhesus monkey endometrial function: Stimulation of lymphocyte infiltration and blood vessel growth. 85th Annual Meeting of The Endocrine Society; Abstract #P1-703, 2003 June; Philadelphia, PA.

131. Marshall GR, Ramaswamy S and **Plant TM**. A selective restoration of FSH to chronically hypogonadotropic, hypogonadal adult rhesus monkeys stimulates proliferation and differentiation of type B spermatogonia. 36th Annual Meeting of the Society for the Study of Reproduction; Abstract #188, 2003 June; Cincinnati, OH.

132. Majumdar SS, **Plant TM** and Sangeetadevi Y. Differential secretion of proteins by Sertoli cells from spermatogenically active and quiescent testis of the rhesus monkey (*Macaca mulatta*). 36th Annual Meeting of the Society for the Study of Reproduction; Abstract #604, 2003 July; Cincinnati, OH.

133. Simorangkir DR, Marshall GR, Schlatt S and **Plant TM**. Proliferation of undifferentiated type A spermatogonia (spermatogonial stem cells) during infancy and prior to puberty in the rhesus monkey (*Macaca mulatta*) as revealed by BrdU-labeling. 13th European Testis Workshop; 2004 April; Dunblane, Scotland.

134. Shahab M, Mastronardi C, **Plant TM**, Ojeda SR, Crowley Jr WF and Seminara SB. Hypothalamic GPR-54 expression and signaling during the peripubertal period in the rhesus monkey. 86th Annual Meeting of The Endocrine Society; Abstract #P3-269, 2004 June; New Orleans, LA.

135. Simorangkir DR, Ramaswamy S, Marshall GR and **Plant TM**. In the adult male rhesus monkey (*Macaca mulatta*), compensation in testosterone secretion by the testis remaining following unilateral orchidectomy is preserved in the face of unchanging gonadotropin stimulation. 86th Annual Meeting of The Endocrine Society; Abstract #P3-334, 2004 June; New Orleans, LA.

136. Majumdar SS, Sarda K, Oñate SA, Friedman RL and **Plant TM**. Limited Sertoli cell expression of androgen and FSH receptors in the rhesus monkey during infancy may underlie the failure of

spermatogonial stem cells to differentiate in the presence of an adult-like gonadotropin milieu at this stage of development. 86th Annual Meeting of The Endocrine Society; Abstract #P3-318, 2004 June; New Orleans, LA.

137. Shahab M, Cunningham MJ, Steiner RA and **Plant TM**. Central administration of galanin-like peptide (GALP) elicits a robust discharge of growth hormone (GH) in the adult male rhesus monkey. 86th Annual Meeting of The Endocrine Society; Abstract #P3-153, 2004 June; New Orleans, LA.

138. Shibata M, Friedman RL, Shahab M and **Plant TM**. *KiSS-1*, but not *GPR54*, expression in the hypothalamus of the adult male rhesus monkey (*Macaca mulatta*) is regulated by testosterone. 34th Annual Meeting of the Society for Neuroscience; Abstract #7016, 2004 October; San Diego, CA.

139. **Plant TM**, Ramaswamy S and Marshall GR. Gonadotropin independent proliferation of the pale type A spermatogonia (Ap) in the adult rhesus monkey. XVIIIth North American Testis Workshop; Abstract #57, 2005 March; Seattle, WA.

140. **Plant TM**. The male monkey for the study of the neurobiology of puberty onset in man. 6th Conference on the Control of the Onset of Puberty; Abstract #IS-12, 2005 May; Evian, France.

141. Shahab M, Pohl C, Barker-Gibb A, and **Plant T**. Is the pubertal resurgence in pulsatile GnRH release in agonadal male monkeys (*Macaca mulatta*) associated with augmented episodic GH secretion? 6th Conference on the Control of the Onset of Puberty; Abstract #PO-23, 2005 May; Evian, France.

142. Shibata M, Ramaswamy S, Shahab M, Gibbs R and **Plant T**. Further studies of kisspeptin/GPR54 signaling in the control of the onset of puberty in the rhesus monkey (*Macaca mulatta*). 6th Conference on the Control of the Onset of Puberty; Abstract #PO-28, 2005 May; Evian, France.

143. Shibata M, Gibbs RB, Shahab M and **Plant TM**. GnRH neurons in the peripubertal male rhesus monkey (*Macaca mulatta*) express GPR54: implication for the control of primate puberty. 87th Annual Meeting of The Endocrine Society; Abstract #P1-98, 2005 June; San Diego, CA.

144. Mann DR, Bhat GK, Ramaswamy S and **Plant TM**. Regulation of bioavailable circulating leptin during pubertal development in the male monkey. 87th Annual Meeting of The Endocrine Society; Abstract #P1-296, 2005 June; San Diego, CA.

145. Mann DR, Bhat GK, DiPietro M and **Plant TM**. Induction of a hypothyroid state during juvenile development delays pubertal reactivation of the GnRH pulse generator in the male rhesus monkey. 87th Annual Meeting of The Endocrine Society; Abstract #P2-181, 2005 June; San Diego, CA.

146. **Plant TM**, Bhat GK, DiPietro M and Mann DR. Effect of thyroidectomy at birth on the arrest of the GnRH pulse generator during infancy in the male monkey. 87th Annual Meeting of The Endocrine Society; Abstract #P2-182, 2005 June; San Diego, CA.

147. **Plant TM**, Marshall GR, Attardi BJ, Hess RA, Schlatt S, Simorangkir DR, Ramaswamy S, Reel JR and Hild SA. Antispermatogenic action of 1-CDB-4022 in the cynomolgus monkey: An interim Report. Reproductive Resource Centers Annual Meeting; 2005 September; The Jackson Laboratory, Bar Harbor, ME.

148. **Plant TM**, Ramaswamy S and DiPietro MJ. Pulsatile stimulation of hypothalamic GPR54 elicits precocious, sustained GnRH release in the juvenile monkey (*Macaca mulatta*). 35th Annual Meeting of the Society for Neuroscience; Abstract #126.2, 2005 June; Washington, D. C.

149. Ramaswamy S, Seminara SB, DiPietro MJ, Crowley Jr. WF and **Plant TM**. Effects of continuous intravenous administration of human metastin 45-54 on the activity in the hypothalamic-pituitary-gonadal axis of intact adult male rhesus monkeys (*Macaca mulatta*). 6th International Congress of Neuroendocrinology; 2006 June; Pittsburgh, PA. Frontiers in Neuroendocrinology 2006; 27:78.

150. DiPietro MJ, Ramaswamy S, Seminara SB, Crowley Jr. WF and **Plant TM**. Attempts to activate a pubertal pattern of GnRH release in juvenile male rhesus monkeys (*Macaca mulatta*) with continuous low dose infusions of human metastin 45-54. 6th International Congress of Neuroendocrinology; 2006 June; Pittsburgh, PA. Frontiers in Neuroendocrinology 2006; 27:140.

151. Mann DR, Stah CD and **Plant TM**. Influence of thyroid status on circulating leptin levels during juvenile and pubertal development in the male rhesus monkey. 88th Annual Meeting of The Endocrine Society; Abstract #P1-71, 2006 June; Boston, MA.

152. Simorangkir DR, Ramaswamy S, Marshall GR and **Plant TM**. Effects of selectively increasing the drive in either FSH or LH on the steroidogenic, inhibinogenic and spermatogenic functions of the monkey testis. 88th Annual Meeting of The Endocrine Society; Abstract #P3-331, 2006 June; Boston, MA.

153. **Plant TM**. New factors (Kisspeptins, GPR54) regulating pubertal GnRH release in primates. 39th Annual Meeting of the Society for the Study of Reproduction; Abstract #S44, 2006 July; Omaha, NE.

154. Simorangkir DR and **Plant TM**. Effects of monotropic elevations in either FSH or LH on proliferation and differentiation of spermatogonia in the adult rhesus monkey (*Macaca mulatta*). XIXth Testis Workshop; Abstract #71, 2007 April; Tampa, FL.

155. Hermann BP, Sukhwani M, Sheng Y, Lin C-C, **Plant TM** and Orwig KE. Initial characterization of spermatogonial stem cells in the rhesus macaque (*Macaca mulatta*). XIXth Testis Workshop; Abstract #59, 2007 April; Tampa, FL.

156. Ramaswamy S, Shahab M, DiPietro MJ and **Plant TM**. The ability of hypothalamic GPR54 signalling to elicit release of hypophysiotropic factors may be limited to gonadotropin releasing hormone: Evidence from the male rhesus monkey (*Macaca mulatta*). 89th Annual Meeting of The Endocrine Society; Abstract #P2-466, 2007 June; Toronto, ON, Canada

157. Hild S, **Plant TM**, Attardi BJ, Reel J and Marshall GR. Loss of spermatocytes and spermatids underlies the action of *1*-CDB-4022 to induce severe oligospermia in adult male cynomolgus monkeys (*Macaca fascicularis*). Annual Meeting of the Society for the Study of Reproduction; Abstract #159, 2007 July; San Antonio, TX.

158. Hermann BP, Sukhwani M, Lin CC, Sheng Y, **Plant TM** and Orwig KE. Prospective identification and isolation of type A spermatogonia from juvenile rhesus macaque testes. Annual Meeting of the Society for the Study of Reproduction; Abstract #79, 2007 July; San Antonio, TX.

159. Ramaswamy S, Gibbs RB and **Plant TM**. Localization of kisspeptin cells and axonal fibers in the pituitary of the male rhesus monkey (*Macaca mulatta*). 41st Annual Meeting of the Society for the Study of Reproduction; Abstract #9, 2008 May; Honolulu, HI.

160. Orwig K, Hermann B, **Plant T**, Simorangkir D and Sukhwani M. Recent progress studying spermatogonial stem cells in primates. 41st Annual Meeting of the Society for the Study of Reproduction; Abstract #162, 2008 May; Honolulu, HI.

161. Ramaswamy S, Guerriero KA, Gibbs RB and **Plant TM**. Intimate and extensive interactions between kisspeptin and GnRH neurons in the median eminence of the rhesus monkey (*Macaca mulatta*) indicate that kisspeptin control of GnRH release may be exerted at the level of GnRH terminals. 90th Annual Meeting of The Endocrine Society; Abstract #P1671, 2008 June; San Francisco, CA.

162. Hermann BP, Simorangkir D, **Plant TM**, Orwig KE. Molecular dissection of the male germ cell lineage in non-human primates. 6th Annual International Society for Stem Cell Research Meeting; Abstract #192, 2008 June; Philadelphia, PA,.

163. Irfan S, Anees M, Wahab F, Zaman W, **Plant TM** and Shahab M. Evidence for a direct intratesticular action of kisspeptin in the adult rhesus monkey (*Macaca mulatta*). 90th Annual Meeting of The Endocrine Society; Abstract #OR52-6, 2008 June; San Francisco, CA.

164. Matagne V, Ramaswamy S, Ojeda S and **Plant TM**. Is a reduction in kisspeptin-GPR54 signaling in the hypothalamus associated with arrest of pulsatile GnRH release during the infantile-juvenile transition in agonadal male rhesus monkeys (*Macaca mulatta*)? Annual Meeting or the Society for Neuroscience; Abstract #618.2, 2008 June; Washington, DC.

165. Huleihel M, Simorangkir DR, Hermann BP and **Plant TM**. Initial application of three-dimensional culture systems to study testicular germ cells in the rhesus monkey (*Macaca mulatta*). XX North American Testis Workshop; Abstract #30, 2009 April; Philadelphia, PA.

166. Ramaswamy S and **Plant TM**. Kisspeptin immunopositive cells and their relationship to gonadotrophs, somatotrophs, and lactotrophs in the anterior pituitary of the male rhesus monkey (*Macaca mulatta*). 91st Annual Meeting of The Endocrine Society; Abstract #1800, 2009 June; Washington, DC.

167. Huleihel M, Hermann BP, Ramaswamy S and **Plant TM**. Initial evidence that testicular germ cells from the prepubertal rhesus monkey (type A spermatogonia) undergo differentiation in three-dimensional culture systems. 42nd Annual Meeting of the Society for the Study of Reproduction; Abstract #680, 2009 July; Pittsburgh, PA.

168. Albrecht ED, Lane MV, Marshall GR, Merchenthaler I, Simorangkir DR, Pohl CR, **Plant TM** and Pepe GJ. Estrogen promotes germ cell and seminiferous tubule development in the baboon fetal testis. 42nd Annual Meeting of the Society for the Study of Reproduction; Abstract #675, 2009 July; Pittsburgh, PA.

169. Matagne V, Ramaswamy S, Lomniczi A, **Plant TM** and Ojeda SR. Hypothalamic expression of a gene cluster encoding transcriptional repressors and mapping to chromosome 19 is developmentally regulated and linked to sexual maturation in the rhesus monkey. 40th Annual Meeting of the Society for Neuroscience; 2009 October; Chicago, IL.

170. **Plant TM**, Seminara SB and Ramaswamy S. Neurokinin B receptor (NK3R) activation stimulates acute GnRH dependent LH release in the juvenile male rhesus monkey *Macaca mulatta* but, in contrast to repetitive kisspeptin receptor activation, does not sustain LH secretion. 92nd Annual Meeting of The Endocrine Society; Abstract #P2-271, 2010 June; San Diego, CA.

171. Mann DR, Ramaswamy S, Stah CD and **Plant TM**. Peripheral T_3 administration that maintains somatic growth and thyroid hormone status in methimazole-treated monkeys corrects the delay in the initiation of pubertal LH secretion observed in globally hypothyroid monkeys. 92nd Annual Meeting of The Endocrine Society; Abstract #P2-268, 2010 June; San Diego, CA.

172. Amin A, Ali B, Ramaswamy S, Ciofi P, Gibbs RB and **Plant TM**. Neurons in the arcuate nucleus of the male rhesus monkey (*Macaca mulatta*) co-express kisspeptin and neurokinin B and both peptides are upregulated by castration. 7th International Congress of Neuroendocrinology; Abstract #P1-2, 2010 July; Rouen, France.

173. Ramaswamy S, Seminara SB and **Plant TM**. Activation of the neurokinin B type 3 receptor (NK3R) stimulates gonadotropin-releasing hormone secretion in the male rhesus monkey (*Macaca mulatta*). 7th International Congress of Neuroendocrinology; Abstract #P1-190, 2010 July; Rouen, France.

174. Matagne V, Ramaswamy S, Ojeda S and **Plant TM**. Identification of transcriptional regulators potentially involved in the arrest of pulsatile GnRH release during infancy in the male rhesus monkey (*Macaca mulatta*). 40th Annual Meeting of the Society for Neuroscience; Abstract #633.9, 2010 November; San Diego, CA.

175. Ramaswamy S, Seminara S and **Plant TM**. Evidence from studies of the male rhesus monkey (*Macaca mulatta*) for the view that the action of neurokinin B to trigger GnRH release lies upstream from the kisspeptin receptor. 93rd Annual Meeting of The Endocrine Society; Abstract #P2-261, 2011 June; Boston, MA.

176. Dwarki K, Ramaswamy S, Gibbs R and **Plant TM**. The arrest of GnRH pulsatility during infancy that guarantees the quiescence of the primate gonad during juvenile development is correlated with a reduction in immunopositive kisspeptin neurons in the arcuate nucleus of the male rhesus monkey (*Macaca mulatta*). 93rd Annual Meeting of The Endocrine Society; Abstract #P2-262, 2011 June: Boston, MA.

177. Ramaswamy S, Silveira L, Kaiser U, Latronico A and **Plant TM**. Studies of the GnRH releasing activities of intravenously administered mutant (KP-P74S) or wildtype (KP-54WT) kisspeptin in the rhesus monkey (*Macaca mulatta*). 93rd Annual Meeting of The Endocrine Society; Abstract #P2-263, 2011 June; Boston, MA.

178. Conley AJ, **Plant TM**, Abbott DH, Moeller BC, and S. D. Stanley SD. Endocrine evidence for adrenarche in the infant male rhesus macaque (*Macaca mulatta*). 44th Annual Meeting of the Society for the Study of Reproduction; 2011 July; Portland, OR.

179. Morris SM, **Plant TM**, Chen JD, Chen H-C, Petibone DM, Vitiello BV, Slikker W and Mattison DR. Pubertal delay in male non-human primates (*Macaca mulatta*) treated with methylphenidate. 51st Annual Meeting of the Society of Toxicology; 2012 March; San Francisco, CA.

180. **Plant TM**. Kisspeptin: A GnRH pulse generating or puberty initiating neuropeptide? Symposium conducted at the Society for Behavioral Neuroendocrinology 16th Annual Meeting; 2012 June 15-18, Madison, WI.

181. Ramaswamy S, Suzuki H, Rosland R, Rajkovic A, **Plant TM**. Initiation of spermatogonial differentiation at the time of puberty in the monkey is associated with a translocation of SOHLH1 from the cytoplasm to the nucleus of pre-meiotic germ cells. 22nd North American Testis Workshop; 2006 April 10-13; San Antonio, TX.

182. Berensztein EB, **Plant TM**, Sainz R, Chirico D, Ponzio R, Rivarola MA, Belgorosky A. Estrogen receptor alpha: postnatal ontogenesis of its immunoexpression in monkey and human testes. 95th Annual Meeting of the Endocrine Society; 2013 June 15-18; San Francisco, CA.

183. Fraser GL, Hoveyda HR, Roy MO, Ramaswamy S, **Plant TM**, Smith J, Clarke IJ. NK3 receptor signaling maintains LH pulse secretion, mean plasma LH levels and induces testicular testosterone release; studies in cynomolgus monkey (Macaca fascicularis) and corriedale ewe. 95th Annual Meeting of The Endocrine Society; 2013 June 15-18, San Francisco, CA.

184. Vargas M, Kalil B, Ramaswamy S, Hoffman GE, **Plant TM**. Kisspeptin neurons in the pre-optic area of the rhesus monkey (*Macaca mulatta*) revealed by immunohistochemistry. Presented at the 16th International Congress of Endocrinology held jointly with The Endocrine Society's 96th Annual Meeting; 2014 June 21-24; Chicago, IL.

185. Berenstein E, **Plant TM**, Aliberti P, Baquedano S, Ponzio R, Chirico D, Rivarola MA, Belgorosky A. A comparative study of expression of estrogen receptor beta in testes of Rhesus monkey and man. Presented at the 16th International Congress of Endocrinology held jointly with The Endocrine Society's 96th Annual Meeting; 2014 June 21-24; Chicago, IL.

186. Kalil B, Ramaswamy S, and **Plant TM**. Interactions between kisspeptin and substance P in the mediobasal hypothalamus of the male rhesus monkey. Presented at the 16th International Congress of Endocrinology held jointly with The Endocrine Society's 96th Annual Meeting; 2014 June 21-24; Chicago, IL.

187. **Plant TM.** Control of the onset of puberty. Presented at the 8th International Congress of Neuroendocrinology, 2014 August, Sydney, Australia.

189. Vargas M, Kalil B, Ramaswamy S, and **Plant TM**. Kisspeptin neurons in the preoptic area of the adult male rhesus monkey (*Macaca mulatta*). Presented at the 8th International Congress of Neuroendocrinology, 2014 August, Sydney, Australia.

190. Castellano JM, Matagne V, Lomniczi A, Toro C, Tena-Sempere M, **Plant TM**, Ojeda SR. Evidence for a repressive role of Zinc finger genes in the hypothalamic control of primate puberty. Abstract # 543.07 Presented at the 44th Annual Meeting of the Society for Neuroscience, 2014 November; Washington DC

191. Li SY, Hu MH, Li XY, Kalil B, **Plant TM**, O'Byrne KT. Biphasic influence of substance P on LH secretion in female rats. Abstract #543.13. Presented at the 44th Annual Meeting of the Society for Neuroscience, 2014 November; Washington DC

192. Aliberti P, Ramaswamy S, **Plant TM**, Ponzio R, Chirico D, Rivarola MA, Belgorosky A, Berensztein EB Role of gonadotropin in the control of IGF1R expression by interstitial cells in human and monkey testis throughout postnatal development: implications for Leydig cell differentiation. Presented at ENDO 2015 March, San Diego

193. Ramaswamy S, Marshall GR, Nourashrafeddin S, Sethi R, Chandran U, Walker WH and **Plant TM**. The testicular transcriptome of the rhesus monkey (*Macaca mulatta*) associated with the decision by undifferentiated spermatogonia to commit to a pathway of differentiation. Presented at the 23rd North American Testis Workshop, 2015 April, Salt Lake City.

194. Walker WW, Sethi R, Ramaswamy S, Chandran U and **Plant TM**. Combined LH and FSH stimulation of the testis of the juvenile monkey (Macaca mulatta) for 48 h results in up regulation of miRNAs in association with initiation of spermatogonial differentiation. Presented at the 48th Annual Meeting of the Society for the Study of Reproduction, 2015, June, San Juan.

195. Aliberti P, Sethi R, Chandran UR, Marshall GR, Nourashrafeddin SM, Berensztein EB, Belgorosky A, Ramaswamy S, Walker WH and **Plant TM**. Defining the testicular transcriptome of the juvenile rhesus monkey (*Macaca mulatta*) and the alterations in testis gene expression that occur during the first 48 hours of experimentally induced puberty. Presentated at ENDO 2016, April, Boston.

196. Walker WH, Ramaswamy S, Aliberti P, Nourashrafeddin S, Sethi R, Chandran U, and **Plant TM.** Gonadotropin-regulation of multiple genes encoding extracellular matrix and cell adhesion proteins is an early event linked with initiation of spermatogonial differentiation at puberty in the monkey. Presented at 49th Annual Meeting of the Society for the Study of Reproduction, 2016, July, San Diego.

4. Other:

1999 Citation for the 1999 Roy O. Greep Lecture Award of The Endocrine Society to Dr. Ernst Knobil, 81st Annual Meeting of The Endocrine Society, San Diego, Endocrinology 140:3871-3871, 1999. PMID10453365

2001 **Plant TM**. Leptin, growth hormone, and the onset of primate puberty. J Clin Endocrinol Metab 86: 458-460, 2001 (Letter to the Editor). PMID11232044

2007 **Plant TM**. Gonadotropin-releasing hormone neuron remodeling: causal for puberty onset? Trends in Endocrinol Metab 18:50-51, 2007 (Research Focus Article). PMID17208449

2010 **Plant TM** and Mann DR. Introduction: New insights into the neurobiology of reproduction and puberty. Plant and Mann, Eds. Brain Research Special Edition 1364:1-2, 2010.

2014 **Plant TM**. Richard Michael remembered. The Endocrinologist Issue 112, 28 (Summer 2014).

2015 **Plant TM.** Ernst Knobil: A Doyen in Neuroendocrinology. A podcast for NeuroEndoNow <http://neuroendonow.org/>

PROFESSIONAL ACTIVITIES

TEACHING:

1. Courses Taught:

1973-1974	Delivered a short series of seminars on the biological basis of behavior to final year residents in Psychiatry at Emory University School of Medicine
1978-1992	Participating lecturer and advisor in course MS PSY 240 (Principles of Mammalian Physiology) University of Pittsburgh School of Medicine
1979-1980	Participating lecturer in course MS PSY 244 (Neuroscience) University of Pittsburgh School of Medicine
1978	Participating lecturer in Basic Science Course for Graduate Trainee Program, University of Pittsburgh School of Medicine
1979 and 1982	Participating lecturer in Biological Science Course 125 (Selected Topics in Mammalian Physiology). Faculty of Arts and Science, University of Pittsburgh
1981	Member of the teaching faculty for the advanced courses in Mammalian Physiology and Neuroscience, University of Pittsburgh
1983-1984	Speaker for Neurosurgical Residents Basic Science Seminars
1985	Co-Organizer, Workshop on Brain-Hypothalamic Interactions in the Regulation of Neuroendocrine Function, Center for Neuroscience, University of Pittsburgh
1987	Participating lecturer in Developmental Practicum for Residents, Western Psychiatric Institute and Clinic
1987-1993	Course Co-Director, Neuroendocrinology: Classical and Contemporary Perspectives MS PSY 286
1991	Co-Organizer, Pulse Generation by Hypothalamic GnRH Neurons, Center for Neuroscience, University of Pittsburgh, NEUSC 2014
1993-1998, 2000-2002	PBL Facilitator, Cellular Communication and Signaling
1994	Lecturer, Endocrinology: Physiology, Pathophysiology, and Clinical Disorders
1994	PBL Facilitator, Integrated Case Studies Course
1994-1997	Workshop Leader, Cardiology
1994-1999	Lecturer, PBL Facilitator, Reproductive and Developmental Biology

1996-1997 PBL Facilitator, Specialized Tissue Course

1999 Lecturer, Topics in Integrative Physiology

1999-2004, 2009-2015 Lecturer, Molecular Mechanisms of Tissue Growth and Differentiation

2013-2015 Lecturer, Reproductive and Developmental Biology

2. Seminars Given:

"Ontogeny of Gonadotropin Secretion in the Monkey", Summer School of the European Pediatric Society for Endocrinology, Copenhagen, June 1988.

"The Neurobiology of Puberty", Pediatric and Adolescent Gynecology Research Think Tank Panel Meeting, NICHD, Bethesda, May 2010

"The Neurobiology of Puberty Onset in the Monkey", Plenary Speaker, Summer Academy of the Center for Reproduction and Andrology, Münster, July 2010

"A History of Neuroendocrinology", 3rd INF Summer School in Neuroendocrinology – Brazil, Ribeirão Preto, August 2011

"Principles and Some History of Neuroendocrinology". 27th Argentina Society for Neuroscience Course for Young Investigators Sculpting the Architecture and Physiology of the Brain: Hormones Have a Lot to Say, Cordoba, October 2012

"Neurobiological mechanisms of puberty onset in higher primates". 27th Argentina Society for Neuroscience Course for Young Investigators Sculpting the Architecture and Physiology of the Brain: Hormones Have a Lot to Say, Cordoba, October 2012

3. Service on Ph.D. Committees:

1984	Chairman, Susan R. Fox, Ph.D. Examination Committee
1988	Chairman, Lindsay Lee, Ph.D. Examination Committee
1993	Member, Dana L. Helmreich, Ph.D. Examination Committee
1994	Member, Derek Schreihofer, Ph.D. Examination Committee
1995	Jury Member, Mimi Giri, University of Gent, M.D. Examination Committee
1996	Jury Member, Mohammed El Majdoubi, University of Bordeaux, Thesis Ph.D. Examination Committee
2001	Matthew O Fraser, Ph.D. Examination Committee
2008	Roxana Teisanu, Ph.D. Thesis Committee

4. Graduate Students:

1995 Matthew O. Fraser, Ph.D. (2009)
Assistant Professor
Research Physiologist
Division of Urology, Department of Surgery
Institute for Medical Research (151)
Duke University Medical Center Durham Veterans Affairs Hospital
Durham, NC 27710

2001 Kelly J. Suter, Ph.D. (2009)
Assistant Professor of Computational Biology
University of Texas at San Antonio
San Antonio, TX

5. Undergraduate Students:

1) Kathryn Guerriero (2006-2008)
Wisconsin National Primate Research Center
University of Wisconsin-Madison
1223 Capitol Court
Madison, WI 53715-1299

2) Barkat Ali (06/22 – 08/14/2009)
Aga Khan University and Hospital
Karachi, Pakistan
Medical Student

3) Nisar Ahmad (07/13 – 09/11/2009)
Hacettepe University
Ankara, Turkey
Medical Student

4) Karthik Dwarki (2008 – 08/10/2011)
1st year Medical Student
George Washington University
Washington, DC

5) Irene C. Verhagen (08/28 – 12/01/2010)
University of Wageningen
Holland, The Netherlands
Undergraduate Student

6) Bibi S. Razack (10/2012-6/2013)
Honors Undergraduate
Chatham University
Woodland Road
Pittsburgh, PA 15232

6. Visiting Scholars

1) M. Arslan, Ph.D. - 1986-1987
Professor and Head - (Fulbright Fellow, Council for International Exchange of Scholars)
Department of Physiology and Cell Biology
University of Punjab
Lahore, Pakistan

2) Haluk Kelistimur, Ph.D. – 05/2007-07/2007
Professor
Firat University Medical School
Head of Department of Physiology
Elazig, Turkey

3) Mahmoud Huleihel – 08/2008 – 07/2009
Ben-Gurion University of The Negev
The Shraga Segal Department of Microbiology and Immunology
Faculty of Health Sciences
P.O. Box 653
Beer-Sheva 84105, Israel

4) Seyed Mehdi Nourashrafeddin, M. S. – 11/2012 – 07/2015
Visiting Academic Health Sciences Research Fellow
Tabriz University of Medical Sciences
Tabriz, Iran

5) Bruna Kalil, M.S. – 08/2013 – 07/2014
FAPESP Visiting Student
University of São Paulo
Rua da Praça do Relógio
109 São Paulo, BR 05508-900

6) Hui Long, M.D. 2015
The Ninth People's Hospital,
School of Medicine
Shanghai-Jiao Tong University
PRC

7) He Wen
The Ninth People's Hospital,
School of Medicine
Shanghai-Jiao Tong University
PRC

8) Paula Aliberti, M.S. 2015 and 2016
Endocrine Society Summer Scholar
Garrahan Pediatric Hospital
Buenos Aires
Argentina

7. Postdoctoral Fellows:

1) A.K. Dubey, Ph.D. - 1982-1985
Associate Professor and Director, IVF Laboratory
Department of Obstetrics and Gynecology
George Washington University
2150 Pennsylvania Ave.
Washington, DC 20037

2) R.P. Hoffman, M.D. - 1985-1987
Assistant Professor and Division Chief,
Pediatric Endocrinology
University Hospital of Jacksonville
655 West 8th Street
Jacksonville, FL 32209

3) S. Abeyawardene, Ph.D. - 1986-1989
Department of Obstetrics & Gynecology
UMDNJ - New Jersey Medical School
Medical School Building E506
185 S. Orange Ave.
Newark, NJ 07103-2757

4) R. Medhamurthy, Ph.D. - 1987-1990
Primate Research Laboratory
Department of Molecular Reproduction,
Development and Genetics
Indian Institute of Science
Bangalore 560 012, India

5) N. Mikuma, M.D. - 1990-1992

Department of Urology
Sapporo Medical College
S.1, W.16, Chuo-ku
Sapporo, 060, Japan

6) C.M. de Ridder, Ph.D. - 1992-1993 (Ter Meulen Foundation Fellow)
Paediatric Endocrinology
Free University Hospital
P.O. Box 7057
1007 MB Amsterdam
The Netherlands

7) S.S. Majumdar, Ph.D. - 1990-1994
National Institute of Immunology
Primate Research Center
Aruna Asaf Ali Marg
New Delhi - 11006 India

8) A.D. Perera, Ph.D. - 1990-1995
Chugai Pharmaceuticals
London, UK

9) P.C. Ishwad, Ph.D. - 1993-1994 (Rockefeller Foundation Fellow)
Childrens Hospital of Pittsburgh
Dept. of Neurology, Rangos Building
Pittsburgh, PA 15213

10) O.P. Mgbonyebi, Ph.D. - 1994-1995
Medical Writer, ScienceDocs, Inc.
http://www.sciencedocs.net/index.htm

11) S. Ramaswamy, Ph.D. - 1995-2001
Research Assistant Professor
University of Pittsburgh
Department of Obstetrics, Gynecology and Reproductive Sciences
Pittsburgh, PA 15261

12) M. El Majdoubi, Ph.D. - 1996-1999
Assistant Professor
Department of Natural Sciences and Mathematics
Albertus Minor, Room 5
Dominican University of California
50 Acacia Avenue
San Rafael, CA 94901

13) Amanda L. Barker, Ph.D. – 2001-2003
Retired from Science (2006)

14) Muhammad Shahab, Ph.D. – 2001-2004
Chair
Department of Animal Sciences
Quaid-i-Azam University
Islamabad 45320 Pakistan

15) Minori Shibata, M.D. – 2003-2005
Assistant Professor
Department of Otorhinolaryngology and Physiology
University of Occupational and Environmental Health Japan
Kitakyushu, Japan

16) David R. Simorangkir, M.D., Ph.D. – 2001–2010
Teaching Faculty
St. Matthew's University School of Medicine
Grand Cayman, Cayman Islands

17) Laiq Ahmad, Ph.D. – 2009-2010
Assistant Professor
Department of Zoology
Government College University
Faisalabad 38000
Pakistan

18) Natalia Kostereva, Ph.D. – 03/2010-3/2011
Postdoctoral Fellow
University of Pittsburgh
Thomas Starzl Transplantation Institute
W1500 BST
Pittsburgh, PA 15261

19) Ergül Alçin, M.D. – 2010-2012
Department of Physiology
Faculty of Medicine
Inonu University
Malatya, Turkey

20) Marcela Vargas Trujillo, M.D. – 2013-2015
Assistant Clinical Professor
Department of Pediatrics
University of California, San Diego.

8. <u>Reproductive Endocrinology and Infertility Fellows (American Board of Obstetrics and Gynecology, Inc.)</u>

1) Teresa Erb, M.D.

Thesis Committee Chair

2) Serena Dovey, M.D.
Thesis Committee Chair

3) Melanie Ochalski, M.D.
Thesis Committee Chair

4) Shweta Nayak, M.D.
Thesis Committee Chair

5) Shruti Malik, M.D.
Thesis Committee Chair

RESEARCH:

1. Grants Received:

Grant Number	Grant Title	Role in Project and % Effort	Years Inclusive	Source $ Amount
***Current Grant Support*:**				
R01 HD072189-01	Molecular Bases Committing Primate Spermatogonia to a Pathway of Differentiation	PI; 25%	2012-2017	NIH $1,951,364
Prior Grant Support:				
2P50 HDRR08610	The Neuroendocrine Control of Gonadotropin Secretion in the Male Rhesus Monkey (Project 3-Center for Research in Primate Reproduction)	PI; 50%	1979-1982	NIH
	Training in the Study of the Control of Testicular Function in Primates	PI; 15%	1990-1994	A.W. Mellon Foundation
R01 HD10907	Control and Integration of GnRH Neural Pathways P.C. Goldsmith, PI, University of California at San Francisco	Co-PI; 15%	1991-1996	NIH
1F06 TW02081	Plasticity of the Neural Network Governing GnRH Release	PI; 75%	1995-1996	Fogarty International $46,242
R01 HD13254	The Ontogeny of Gonadotropin Secretion in the Monkey	PI; 25%	1980-1998	NIH $519,590
R01 HD16851	Testicular Control of LH and FSH Secretion in the Monkey	PI; 25%	1982-2000	NIH $450,145
1R01 HD32473	Role of FSH in Spermatogenesis G.R. Marshall, PI, University of Pittsburgh	Co-PI; 10%	1995-2000	NIH $165,563
P30 HD08610	Center for Research in Reproductive Physiology	PI; 20%	1985-2000	NIH $1,085,334

	NPY and Feeding in the Rhesus Monkey	PI; 1%	1999-2000	GlaxoWellcome $13,628
R01 HD22338	Physiology of Human Relaxin G. Weiss, PI, New Jersey Medical School	Co-PI;5%	1999-2001	NIH $37,320
R03 AG17727	The Role of the Hypothalamic-Pituitary Axis in Menopause	Co-Invest.; 5%	2000-2001	NIH $50,000
U54HD36207	Specialized Cooperative Center for Reproduction Research: Programming of the Primate Male Reproductive System by Estrogen *In Utero*: Impact on Fertility in Adulthood	Co-Invest.	2001-2003	NIH $17,276
U54 HD08610 (Indo-US Joint)	Primate Sertoli Cell Factors and Germ Cell Proliferation	US PI; 5%	2000-2004	NIH $136,133
R01 HD13254	The Role of Neuronal Plasticity in Primate Puberty (formerly "The Ontogeny of Gonadotropin Secretion in the Monkey)	PI; 25%	1998-2005	NIH $1,098,294
Bioqual, Inc.	Antispermatogenic Activity of CDB-4022D in Adult Male Cynomolgus Monkeys: Confirmation and Extension of DVS-80 Study	PI; 5%	2004-2006	Bioqual, Inc. $216,261
R13 HD05361-1	International Congress of Neuroendocrinology (ICN 2006)	PI	2006-2007	NIH $22,000
5T32 HD07332	Postdoctoral Training in Reproductive Physiology	PI; 10%	1995-2008	NIH $385,216
U54 HD41749	Cooperative Reproductive Science Research Centers at Minority Institutions: Development and Differentiation in Reproductive Axis	Co-Director; 5%	2001-2009	NIH $520,275
U54 HD36207	Specialized Cooperative Center for Reproduction Research: Development of Baboon Fetal Testis	PI; 5%	2004-2009	NIH $70,391

Clinical and Translational Science Inst. Basic to Clinical Collaborative Research Pilot Program (CTSI/BaCCoR)	Kickstarting Puberty in Boys With Constitutional Delay	Co-PI; 5%	2008-2009	University of Pittsburgh $25,000
R01 HD13254	Molecular and Structural Bases of Hypothalamic Puberty (formerly "The Role of Neuronal Plasticity In Primate Puberty" and "The Ontogeny of Gonadotropin Secretion in the Monkey)	PI; 25%	2005-2012	NIH $1,202,716
U54 HD08610	Specialized Cooperative Center for Reproduction and Infertility Research: Physiology and Pathophysiology of the Primate Gonad	PI; 30%	2006-2013	NIH $2,043,799

2. Seminars and Invited Lectureships Related to Research:

1973 Testicular Control of Copulatory Activity in the Rhesus Monkey, Department of Physiology, Emory University

1975 The Neuroendocrine Control of Gonadotropin Secretion in the Rhesus Monkey, Georgia Mental Health Institute, Atlanta

1977 The Neuroendocrine Control of Gonadotropin Secretion in the Female Rhesus Monkey, Oregon Regional Primate Center

1979 The Neuroendocrine Control of Testicular Testosterone Secretion in the Rhesus Monkey, 6th NICHHD Workshop on the Testis in Houston

1979 Studies on the Neuroendocrine Control of Testicular Function in the Rhesus Monkey, College of Physicians and Surgeons of Columbia University, New York

1980 Role of the Central Nervous System in the Control of Gonadotropin Secretion in the Female Rhesus Monkey, 6th International Congress of Endocrinology, Melbourne

1980 The Ontogeny of the Neuroendocrine Control of Testicular Function in the Rhesus Monkey, The Yerkes Regional Primate Research Center, Emory University

1980 The Neuroendocrine Control of Testicular Function in the Rhesus Monkey, Hospital of the University of Pennsylvania

1980 Control of Gonadotropin Secretion in the Male Rhesus Monkey, Universitats Frauenklinik, Bonn

1980 Neuroendocrine Control of Testicular Function in the Rhesus Monkey, Universitats Frauenklinik, Munster

1980 Neuroendocrine Control of Gonadotropin Secretion in the Male Rhesus Monkey, McGill University and the Royal Victoria Hospital, Montreal

1981 Ontogeny of Pulsatile LHRH Secretion in the Male Rhesus Monkey, Harvard Medical School and the Massachusetts General Hospital

1981 Neuroendocrine Control Systems Governing Ontogeny of Gonadal Function, XV Biennial Symposium on Animal Reproduction, Raleigh

1982 Control of Gonadotropin Secretion in the Male Primate, Ferring Symposium on Brain and Pituitary Peptides II, Kiel

1982 The Ontogeny of Gonadotropin Secretion in the Rhesus Monkey, University of Washington School of Medicine

1982 Neuroendocrine Mechanisms Governing the Ontogeny of Gonadotropin Secretion in the Male Rhesus Monkey, 2nd ORPRC Symposium on Primate Reproductive Biology, Beaverton

1983 The Neuroendocrine Control System Governing the Ontogeny of Gonadotropin Secretion in the Monkey, University of Cambridge

1984 Neuroendocrine Mechanism Underlying the Ontogeny of Gonadotropin Secretion in the Monkey, Massachusetts Institute of Technology

1984 Ontogeny of the GnRH Pulse Generator in the Rhesus Monkey, Satellite Symposia (Developmental Endocrinology of the 7th International Congress of Endocrinology, Montreal

1984 Control of Gonadotropin Secretion in the Male Rhesus Monkey, APS Symposia on Current Topics in Neuroendocrine Control of Gonadotropin Secretion, Kentucky

1985 Neuroendocrine Mechanism Underlying the Timing of Puberty in the Monkey, Developmental Endocrine Branch NICHD

1985 The Ontogeny of Pulsatile GnRH Release in the Male Rhesus Monkey, 3rd Ferring Symposium, Noordwijk

1985 Intermittent Hypothalamic Neurosecretion and Gonadal Function, Workshop on Brain-Hypothalamic Interaction in the Regulation of Neuroendocrine Function, Center for Neuroscience, University of Pittsburgh

1986 Pulsatile Gonadotropin Secretion in Sub-Human Primates, Harvard Medical School and the Massachusetts General Hospital, Boston

1986 Neuroendocrine Mechanisms Underlying the Ontogeny of Gonadotropin Secretion in the Monkey, 68th Annual Meeting of the Endocrine Society, Anaheim

1986 The Neuroendocrine Mechanisms that Determine the Timing of Puberty in Primates, College of Physicians & Surgeons of Columbia University, New York

1986 Neuroendocrine Control of Gonadotropin Secretion and Puberty in the Monkey, West Virginia University, Morgantown

1986 Puberty in the Rhesus Monkey, University of Maryland, Baltimore

1987 Neuroendocrine Mechanisms Timing the Onset of Puberty in Primates, The Mount Sinai Medical Center, New York

1987 The Neuroendocrine Control of Testicular Function: Anatomical and Physiological Considerations, American Society of Andrology, Postdoctoral Course, Denver

1987 Puberty in Primates: A Reawakening of the GnRH Pulse Generator, The University of Texas Medical School, Houston

1987 Neuroendocrine Basis of Puberty in the Monkey, Neuro-Endocrinology of Reproduction, VIth Reinier De Graaf Symposium, Nijmegen

1988 Testicular Inhibin and the Regulation of FSH in the Monkey, Contraceptive Development Branch, Workshop on LHRH Analogs and Reproductive Polypeptides, National Institutes of Health, Bethesda Maryland

1988 Brain Control of the GnRH Pulse Generator, Lawson Wilkins Pediatric Endocrine Society, Reproductive Biology Symposium, Washington, DC

1988 Ontogeny of GnRH Pulse Generator in the Rhesus Monkey, The 8th International Congress of Endocrinology, Kyoto

1988 The Ontogeny of LHRH Pulse Generator Activity in the Monkey, Progress in the Endocrine Chronobiology, Satellite Symposium of the 8th International Congress of Endocrinology, Sapporo

1988 The Neurobiology of the Onset of Puberty in Primates, Northwestern University, Evanston

1988 Neuroendocrine Mechanisms Controlling the Onset of Puberty in the Monkey, Emory University, Atlanta

1989 Neuroendocrine Mechanisms Controlling the Onset of Puberty in Primates, University of Washington, Seattle

1989 Neuroendocrine Basis of Onset of Puberty in Primates, Cornell University, Ithaca

1989 The Neuroendocrine Control of the Onset of Puberty in Primates, Hungarian Academy of Sciences, Budapest

1989 The Ontogeny of Hypothalamic GnRH Secretion in the Rhesus Monkey, 3rd International Conference on the Control of the Onset of Puberty, Amsterdam

1990 The Neurobiology of Puberty in Primates, University of Virginia, Charlottesville

1990 The Neuroendocrine Mechanisms Governing the Onset of Puberty in Primates, McGill University, Montreal

1990 The Neuroendocrine Regulation of the Onset of Puberty, Serono Symposium on Reproduction, Growth and Development, Acapulco

1990 The Hypothalamic Control of Puberty in the Rhesus Monkey, A Representative Higher Primate, The Endocrine Society, Atlanta

1990 The Ontogeny of the GnRH Pulse Generator in Higher Primates, European Society for Paediatric Endocrinology, Vienna

1990 Neuroendocrine Control of the Onset of Puberty in Primates, Harvard Medical School, Boston

1990 Control of FSH Secretion in the Male Rhesus Monkey, Serono Symposium on the Regulation and Actions of Follicle Stimulating Hormone, Chicago

1991 The Neuroendocrine Regulation of Testicular Function in the Monkey, Massachusetts General Hospital, Boston

1991 Neuroendocrine Control of Puberty in the Rhesus Monkey, a Representative Higher Primate, Henri-Pierre Klotz d'Endocrinologie Clinique Symposium on the Endocrinology of Puberty, Paris

1991 Neuroendocrine Regulation of Puberty and Testicular Function in the Monkey, Hôpital de Bicêtre, Le Kremlin-Bicêtre, France

1991 The Neuroendocrine Control of the Onset of Puberty in Primates, Ciba Foundation Symposium No. 168, Budapest

1991 The Neuroendocrine Mechanisms Controlling the Onset of Puberty in the Primate, The University of Western Ontario, London, Canada

1991 The GnRH Pulse Generator, The Magee-Womens Hospital, Pittsburgh

1992 Neuroendocrine Control of Puberty and Testicular Function in the Monkey, NIH Interinstitute Endocrine Grand Rounds, Bethesda

1992 Regulation of Gonadotropin Secretion in the Male Monkey, Satellite Symposium on Gonadotropins, GnRH, GnRH Analogs and Gonadal Peptides, Paris

1992 The Neuroendocrine Regulation of Testicular Function in the Monkey, Ferring Symposium on the Central Control of Gonadal Function, Frankfurt

1993 Neuroendocrine Control of Testicular Function in the Monkey, Georgetown University Medical Center, Washington

1993 Inhibin in the Male, University of Bristol, Bristol

1993 The Neurobiology of the Initiation of Puberty, Advances in Growth, Fiuggi

1993 The Neurobiology of Puberty in the Monkey, The Center for Reproductive Research, Tufts University, Boston

1993 The Neuroendocrine Control of Gonadal Function in Primates, Center for Reproductive Research Seminar, Kansas City University Medical Center, Kansas City

1993 An Operational FSH-Testicular Inhibin Feedback Loop in the Adult Rhesus Monkey, II International Symposium on Inhibin and Inhibin-Related Proteins, Siena

1994 The Onset of Puberty in Non-Human Primates, International Symposium on Puberty: Basic and Clinical Aspects, Buenos Aires

1994 Closing Remarks, Fourth International Conference on the Control of the Onset of Puberty, Pittsburgh

1995 Neuroendocrine Control of Reproduction in Male Primates, Universite de Liége, Liége

1996 Neuroendocrine Control of Reproduction in the Monkey, Universite de Genéve, Geneva

1996 Puberty in the Monkey, Universite Hôpital Gent, Gent

1996 Environmental Factors and Puberty in Non-human Primates, 21st International Symposium, Growth Hormones and Growth Factors in Endocrinology and Metabolism, Venice

1996 Control of Testicular Function in the Monkey, Hôpital Antoine, Paris

1997 Plasticity in the Hypothalamic GnRH Neuronal Network and Primate Puberty, University of Texas-Houston Medical Center, Texas

1997 The Control of Pubertal Development, 11th European Scientific Symposium, Reproduction in Nonhuman Primates, Münster

1997 Neuronal Plasticity and Pituitary Gonadal Axis, The Ares-Serono Foundation, International Workshop on Paracrine Mechanisms in Female Reproduction, Seville

1997 Puberty in Primates, Tokyo Women's Medical College, Tokyo

1997 The Neuroendocrine Control of Puberty in the Monkey, Japan Neuroendocrine Society, Tokyo

1997 The Pubertal Initiation of Testicular Function in the Monkey: Neurobiology and Endocrinology, Prince Henry's Institute of Medical Research, Melbourne

1998 Neuroendocrine Control of the Onset of Puberty in Primates, 2nd Congreso Argentino de Endocrinologia Ginecologica Y Reproductiva, Buenos Aires

1998 The Role of Inhibin in the Regulation of FSH Secretion in Higher Primates, 2nd Congreso Argentino de Endocrinologia Ginecologica Y Reproductiva, Buenos Aires

1998 Functional Organization of the Hypophysiotropic Hypothalamus Driving the Pituitary-Gonadal Axis in the Rhesus Monkey, 41èmes Journees Internationales D'Endocrinologie Clinique, Paris

1998 Pubertal Changes in GnRH Secretion and Gene Expression in the Monkey, Seoul Satellite Symposium of the 4th International Congress of Neuroendocrinology, Seoul

1998 Pubertal Changes in Hypothalamic Gene Expression in the Monkey, University of Milan, Milan

1998 Neuroendocrine Control and Development of Gonadotropin Pulsatility, 4th International Congress, "The Young Woman at the Rise of the 21st Century: Gynecological and Reproductive Issues in Health and Disease", Athens

1998 Experimental Non-Human Primate Models Employing GnRH and GnRH Analogs, 4th International Congress, "The Young Woman at the Rise of the 21st Century: Gynecological and Reproductive Issues in Health and Disease", Athens

1999 The FSH-Inhibin B Feedback Control System in Male Primates, 1999 North American Inhibin and Activin Congress, Evanston

1999 Hypothalamic Gene Expression During Puberty in the Monkey, 81st Annual Meeting of The Endocrine Society, San Diego

1999 The GnRH Pulse Generator and Gonadal Function: New Developments, Serono International Symposium on Gonadal Failure: New Perspectives, Cortina

1999 Ontogeny of GnRH Gene Expression and Secretion in Primates, The 5th International Conference on the Control of the Onset of Puberty, Liège

2000 The Postnatal Ontogeny of the Hypothalamic-Pituitary-Gonadal Axis in the Rhesus Monkey, 55th Meeting of the Midwest Teratology Association, Greenfield

2000 The Effects of Sex Hormones on the Initiation of Puberty in Primates. XIV Meeting of the Latin American Pediatric Endocrinology Society, Ushuaia

2000 Circulating Leptin as a Signal for Triggering the Initiation of Puberty. XIV Meeting of the Latin American Pediatric Endocrinology Society, Ushuaia

2000 The Role of Testicular Inhibins in the Control of FSH in Primates, Ares-Serono Foundation International Workshop on Inhibins, Activins and Follistatins. Melbourne

2000 Puberty, Ares-Serono Foundation International Conference on Reproductive Competence: Pathology and Therapeutic Interventions, Santiago

2001 Hypothalamic Plasticity and Our Adulthood, National Institute of Immunology, New Delhi

2001 The Neurobiology of Primate Puberty, Indian Institute of Science, Bangalore

2001 The Role of Inhibin in Regulating the Male Reproductive Axis, Institute for Research in Reproduction, Bombay

2001 The Neurobiology of the Onset of Puberty, Pakistan Academy of Sciences, Islamabad

2001 The Hypothalamic Pituitary Testicular Axis in the Monkey: Ongoing Studies, Massachusetts General Hospital, Boston

2001 The Operation of the FSH-Inhibin Feedback Loop in Regulating Spermatogenesis in the Monkey, Bioqual, Inc., Rockville

2001 The Control of the Onset of Primate Puberty, 83rd Annual Meeting of The Endocrine Society, Denver

2001 Regulation of Primate Spermatogenesis by the FSH-inhibin Feedback Loop, 34th Annual Meeting of the Society for the Study of Reproduction, Ottawa

2002 A New Look at a Classical Subject: the Role of Gonadotropins in the Control of Spermatogenesis, Johns Hopkins School of Hygiene and Public Health, Baltimore

2002 Neurobiology of Puberty in the Male Monkey, University of Maryland, Baltimore

2002 Neuroendocrine Regulation of Gonadotropin Secretion in the Monkey, Workshop: Progress in Reproductive Physiology, Hannover

2002 Physiology of Inhibins, Activins and Follistatin in Primates, XXEME Congres de la Societe Francaise D'Endocrinologie, Tours

2003 Neurobiology of the Onset of Puberty in Higher Primates, University of Virginia, Charlottesville

2003 Neurobiology of the Onset of Puberty in Primates, Morehouse School of Medicine

2003 Are Neurogenomics Underlying the Pubertal Reawakening of the GnRH Pulse Generator? 4th Annual GeNeSIS Symposium and Investigators' Meeting, Vancouver

2004 Novel Concepts in the Control of the Onset of Puberty, Updates in Infertility Treatment 2004, Marco Island

2004 Is GPR 54 a Puberty Gene? Studies of the Rhesus Monkey. Edinburgh University, Edinburgh

2005 Pubertal Onset of Spermatogenesis, XXVIII North American Testis Workshop, Seattle

2005 The Male Monkey as a Model for the Study of the Neurobiology of Puberty Onset in Man, 6th International Conference on the Control of the Onset of Puberty, Evian

2006 The Rhesus Monkey as an Experimental Model to Understand the Neurobiology of Human Puberty, University of Washington Health Sciences

2006 The Neurobiology of the Onset of Puberty in the Monkey, Northwestern University, Center for Reproductive Science, Evanston

2006 Is Puberty Triggered by a Kiss?, Northwestern University, Grand Rounds, Division of Endocrinology, Metabolism and Molecular Medicine, Chicago

2006 The Role of *KiSS-1* in the Regulation of Puberty, 4th Ferring Pharmaceuticals International Paediatric Endocrinology Symposium, Paris

2006 Neurobiological Mechanisms Underlying the Pubertal Activation of the HPG Axis at Puberty in Higher Primates, 6th International Congress of Neuroendocrinology, Pittsburgh

2006 New Factors (Kisspeptins, GPR54) Regulating GnRH Release 1, 39th Annual Meeting of the Society for the Study of Reproduction, Omaha

2006 Human Puberty, A Mysterious Reawakening: Lessons from the Monday, 8th Annual Reproductive Biology Retreat, Johns Hopkins University and University of Maryland, Maryland

2006 Is Puberty Triggered by a KiSS?, Bioqual, Inc. Maryland

2006 The Neurobiology of Puberty, 8th Journées KIGS KIMS, Paris

2007 Postnatal and Pubertal development of the Primate Testis, University of Health Sciences, Lahore

2007 Kisspeptin Signaling in the Hypothalamus: A Novel and Major Regulator of the Reproductive Axis, Pakistan Academy of Sciences, Islamabad

2007 The Role of Kisspeptin Signaling at GPR54 in Triggering Primate Puberty, 17th Annual Meeting of the Indian Society for the Study of Reproduction and Fertility, New Delhi

2007 Developmental and Hormonal Determinants of Spermatogenic Ceiling in the Monkey, Center for Research on Reproduction and Women's Health, The University of Pennsylvania Medical Center, Philadelphia

2007 Role of Kisspeptin in Triggering Puberty in the Monkey, INSERM U413, Institut Fédératif de Recherches Multidisciplinaries sur les Peptides (IFRMP 23), University of Rouen, Rouen

2007 Role of Kisspeptin in Triggering Puberty in the Monkey, UMR 6175 INRA, University of Tours, Tours

2007 Endocrine and Neuroendocrine Mechanisms Underlying the Onset of Puberty in Higher Primates, 6th Congress of the Asia and Oceania Society for Comparative Endocrinology (ASOCE), University of North Bengal

2008 The Hypothalamic Regulation of Fertility in Primates, The Physiological Society Symposium, Cambridge

2008 Hypothalamic Kisspeptin Signaling: A Neurobiologic Trigger for the Onset of Primate Puberty, The First IBRO/LARC Iberian, LatinAmerican and Caribbean Congress of Neuroscience – I NEUROLATAM, Búzios

2008 Kisspeptin and Puberty in the Monkey, 1st World Conference on Kisspeptin Signaling in the Brain, Cordoba

2009 The Role of Kisspeptin in Triggering Puberty in Primates, Department of Physiology, Morehouse School of Medicine, Atlanta

2009 Kisspeptin and the Control of GnRH Pulsatility Throughout Postnatal Development in the Monkey, Ericyes University, Kayseri

2009 Neuroendocrine Mechanisms Controlling the Timing of Puberty in Primates, Neuroendocrinology Symposium & Workshop, Turkish Neuroendocrine Society, Istanbul

2009 Non-Human Primate Models of Human Reproduction: Advantages and Disadvantages, Neuroendocrinology Symposium & Workshop, Turkish Neuroendocrine Society, Istanbul

2009 Kisspeptin Signaling and the Initiation of Puberty in Primates, University of Massachusetts, Amherst

2009 Postnatal Regulation of Pulsatile GnRH Release in the Monkey. 91st Annual Meeting of The Endocrine Society, Washington, June 2009. Symposium S2-1.

2009 Is Puberty in Primates Triggered by a *KiSS* Alone? Festschrift Symposium in Honor of Professor John A. Russell

2009 Kisspeptin and the Onset of Puberty in the Monkey, XXXVI International Congress of Physiological Sciences, Kyoto

2009 The Neurobiology of Puberty in the Monkey, National Center for Toxicological Research, Little Rock

2010 Neuroendocrine Determinants of Sexual Maturity in Nonhuman Primates, 18th Primate Symposium, Münster

2010 Neuroendocrine Control of the Menstrual Cycle, Department of Obstetrics and Gynecology, Ben-Gurion University of the Negev, Beer-Sheva

2010 Postnatal Development of Spermatogonial Stem Cell and their Niches in the Monkey, Department of Microbiology and Immunology, Ben-Gurion University, Beer-Sheva

2010 Neuroendocrine Mechanisms Controlling the Onset of Puberty in Primates, Department of Virology and Development and Molecular Genetics, Ben-Gurion University, Beer-Sheva

2010 Neuroendocrine Mechanisms Controlling the Onset of Puberty in the Rhesus Monkey, IIIrd Congress of the Polish Neuroendocrine Society, Krakow

2011 The Generation of GnRH Rhythms, First Brazilian International Symposium on Integrative Neuroendocrinology, Dourado

2011 Modeling Neuroendocrine Control Systems Governing Reproduction in Non-Human Primates, New York Academy of Sciences Animal Models and Their Value in Predicting Drug Efficacy and Toxicity, New York. NY.

2011 Role of Hypothalamic KNDy Neurons in the Control of Puberty Onset in the Male Monkey. The 8th Annual Gilbert S. Greenwald Symposium on Reproduction, Kansas City, MO.

2012 Kisspeptin: A GnRH Pulse Generating or Puberty Initiating Neuropeptide? 16th Annual Meeting of the Society for Behavioral Neuroendocrinology, Madison, WI.

2012 The neurobiology of GnRH pulsatility: a mode of hypothalamic activity essential for folliculogenesis, ovulation and spermatogenesis. 45th Annual Meeting of the Society for the Study of Reproduction, State College. PA.

2012 Kisspeptin: a GnRH Pulse Generating or Puberty Initiating Neuropeptide. Juan P. Garrahan Pediatric Hospital, Buenos Aires

2012 Postnatal Development of the Testis in the Monkey. Juan P. Garrahan Pediatric Hospital, Buenos Aires

2014 Timing and Progression of Puberty: Fundamental Neuroendocrine Mechanisms. Society of Toxicology 53rd Annual Meeting; Abstract 379, 2014 Mar 24; Phoenix, AZ.

2014 The Neuroendocrine Control of the Onset of Puberty. 8th International Congress of Neuroendocrinology, Sydney

2015 Physiology and Clinical Implications of the Midcycle Gonadotropin Surge. 7th World Congress on Ovulation Induction, Bologna.

2015 Neuroendocrine Control of Puberty in Highly Evolved Primates. 60th Annual Meeting Argentinian Society of Clinical Investigation, Mar del Plata.

2016 Neuroendocrine Control of Puberty Onset in Primates. Department of Assisted Reproductive Medicine, The Ninth People's Hospital, Shanghai Jiaotong University Medical School, Shanghai.

2016 Minipuberty: what is driven by the brain, by the gonad and by sex? European Society of Endocrinology Postgraduate PhD course: Regulation of the Pituitary-Gonadal Axis in Childhood, Adolescence and Adults; Minipuberty and Puberty. Rigshospitalet, Copenhagen

3. Other Research Related Activities:

1978-Present Journal Refereeing: Endocrinology, Neuroendocrinology, American Journal of Physiology, Journal of Endocrinology, Nature, Proceedings of Society of Experimental Biology and Medicine, Life Sciences, Journal of Clinical Endocrinology and Metabolism, Journal of Andrology, Biology of Reproduction, Journal of Neuroscience, Proceedings of the National Academy of Sciences, U.S.A., Journal of Comparative Neurology, Journal of Pediatrics, Journal of Neuroendocrinology, Current Biology, Reproduction.

1979 Ad Hoc Consultant: Population Research Committee, NICHHD

1980-1995 Extramural Grant Reviewer for NSF

1985 Ad Hoc Consultant: Neurobiology - 2 Study Section, NIH

1987 Member, Special Study Section; Reproductive Biology, NIH

1989 Organizer, Third International Congress on the Control of the Onset of Puberty, Amsterdam, 1989

1989 Organizer, Symposium on The Comparative Physiology of Puberty, XXXI International Congress of Physiological Sciences, Helsinki, 1989

1989 Special Reviewer, Reproductive Endocrinology Study Section, NIH

1989-1993 Member, Reproductive Endocrinology Study Section, NIH

1989-1992 Editorial Board, *Endocrinology*

1990-1995 Editorial Board, *Biology of Reproduction*

1991 Member, Nominating Committee of the International Society of Neuroendocrinology

1991 Chairman, Recombinant Baboon and Cynomolgus Gonadotropin Meeting, Contraceptive Development Branch, Center for Population Research, NICHHD

1991 Member, Neuroscience Study Group, Conte Institute for Environmental Health

1991 Ad Hoc Consultant, National Center for Research Resources, NIH

1993-1994 Chairman, Program and Local Committee, Fourth International Conference on the Control of the Onset of Puberty, Pittsburgh, 1994

1993-1994	Chairman, National and Local Committee - The Ernst Knobil Symposium, Pittsburgh 1994
1993-1995	Member, Ad Hoc Expert Panel, Life Sciences Research Office - Analysis of Adverse Reactions to Monosodium Glutamate
1993-1996	Program Committee, Annual Meeting of the Endocrine Society
1994	External Consultant, Primate Medicine Review, Oregon Regional Primate Research Center
1994-2000	Chairman, Publication Committee of the International Society of Neuroendocrinology
1995-2001	Editorial Board, *American Journal of Physiology: Endocrinology and Metabolism*
1996-1998	Chairman, Program Committee, 4th International Congress of Neuroendocrinology, Kitakyushu, Japan, 1998
1997	Special Reviewer, Neuroscience and Neuropsychology of Aging Program, NIA
1998-2000	Member, By-Laws Committee, Society for the Study of Reproduction
1998	Speaker Leader/Workgroup I: Developing Models of Healthy Adolescent Physical Development: Health Futures of Youth II: Pathways to Adolescent Health, Annapolis, MD
1998	Ad Hoc Consultant, Comparative Medicine Review Committee, NIH National Center for Research Resources Site Visit of the Oregon Regional Primate Research Center
1998-1999	Co-Chair Program Committee, Fifth International Conference on the Control of the Onset of Puberty, Liége, 1999
1998-1999	Interim Chair, Program Committee, 5th International Congress of Neuroendocrinology, Bristol, UK, 2000
2000	Council Member, International Society of Neuroendocrinology
2000-2013	Member, Research Focus Group, Male Reproduction, Specialized Cooperative Center for Reproduction Research (NICHD)
2000-2013	Member, Research Focus Group, Neuroendocrine/Pituitary Function, Specialized Cooperative Centers Program for Reproduction Research (NICHD)
2000	Tribute to Ernst Knobil, NIH Center Directors Meeting, Portland, Oregon
2000-2001	Chair, By-Laws Committee, Society for the Study of Reproduction
2000-2004	Acting Treasurer, International Neuroendocrine Federation
2000	Member, Review Group, Confocal DFG Research Group (The Male Gamete: Production, Maturation, Function), Münster, Germany

2001-2004 Member, Publications Committee, The Endocrine Society

2001-Present Member, Editorial Board, *Proceedings of the Pakistan Academy of Sciences*

2001-2009 Member, Editorial Board, *Reproduction*

2002 External Consultant: Wake Forest University School of Medicine, Comparative Medicine Clinical Research Center, Soy Research Program

2002 Member, Special Professional Interests Task Force, The Endocrine Society

2002 Organizer, Mini Symposium on Spermatogonia Renewal, Male Research Focus Group, RSB, NICHHD

2002-2006 Chair, Local Organizing Committee, 6th International Congress of Neuroendocrinology, Pittsburgh 2006

2002 Assessor, National Health and Medical Research Council (NHMRC), Australia

2003 Member, NIEHS Special Emphasis Panel, Breast Cancer and the Environment Research Centers

2003 Panelist, Serono/EPA: Expert Panel Workshop: The Role of Environmental Factors on the Onset and Progression of Puberty in Children, Chicago

2003 Ad Hoc Consultant, Reproductive Sciences Branch, NICHHD

2003-2006 Secretary General, International Neuroendocrine Federation

2003-2005 Member, Scientific Committee, Pfizer International Conference on the Control of the Onset of Puberty, 2005, Evian

2004 Temporary Reviewer, Integrative Clinical Endocrinology and Reproduction Study Section, NIH

2004-2015 Member, Editorial Board, *Frontiers in Neuroendocrinology*

2005-2015 Member, Faculty of 1000 Biology

2005 Reviewer, The Welcome Trust, UK

2005 Special Reviewer, The Marsden Fund, Royal Society of New Zealand

2005 Reviewer, Well Being of Women's Research Advisory Committee, UK

2006-2009 Member, Society for the Study of Reproduction Program Committee

2006	President Elect, International Neuroendocrine Federation
2006	Member, Specialized Centers Program in Reproduction and Infertility Research (SCCPIR) Review Panel
2006-2010	Member, Editorial Board, *Endocrine*
2007-2011	President, International Neuroendocrine Federation
2007	Reviewer, Biotechnology and Biological Sciences Research Council (BBSRC), UK
2007	Temporary Reviewer, Integrative Clinical Endocrinology and Reproduction Study Section, NIH
2007-2009	Chair, Steering Committee for the Cooperative Centers Program in Reproduction and Infertility Research (SCCPIR), NICHD
2007-2008	Member, International Scientific Committee "1st World Conference on Kisspeptin Signaling in the Brain", Cordoba, October 2008
2007-2009	Member, Program Advisory Committee, XX North American Testis Workshop, Philadelphia, April 2009
2008-2011	Editorial Board, *Endocrinology*
2008-2009	Member, Board of Reviewing Editors (BRE), *Biology of Reproduction*
2008-2015	Member, External Advisory Board, California National Primate Research Center
2008-2009	Chair, Local Arrangements Committee, Society for the Study of Reproduction, 2009 Annual Meeting
2009-2012	Consultant for National Center for Toxicological Research, Jefferson, AR
2009-2014	Advisor, Silicones Environmental, Health and Safety Council (SEHSC), Herndon, VA
2009-2012	Faculty, 2nd International Neuroendocrine Federation Summer School of Neuroendocrinology, Japan, Kitakyushu, August 2-4
2009	Editorial Advisor, www.kisspeptin.org Web Site
2009-2014	Consultant, Syngenta Crop Protection, Inc.
2010	Panelist, National Institutes of Health Pediatric and Adolescent Gynecology Research Think Tank Panel Meeting
2011-2015	Editorial Board, *Neuroendocrinology*

2011-2012 Member, Scientific Advisory Board, 2nd World Conference on Kisspeptin

2012 Site Visit Reviewer, Intramural Program in Developmental Endocrinology and Genetics, NICHD.

2012-Present Managing Director, International Neuroendocrine Federation's Office.

2013 Member, Review Panel for George M. O'Brien Urology Cooperative Research Centers Program NIH/NIDDK

2013-2015 Member, Board of Reviewing Editors for Biology of Reproduction

2015-Present Co-Editor in Chief, Masterclass in The GnRH Neuron and its Control

LIST of CURRENT RESEARCH INTERESTS:

1. Neurobiology of the onset of puberty in higher primates.
2. Regulation of spermatogenesis in the monkey.
3. Proliferation of primate Sertoli cells and undifferentiated type A spermatogonia (male germline stem cells): determination of spermatogenic ceiling in the adult.
4. Neuroendocrine control of the menstrual cycle

SERVICE:

1. <u>University and Medical School Activities</u>:

1983-1995 Interviewer, Admissions Committee, University of Pittsburgh School of Medicine

1984-1985 Member, Awards Committee for Student Prize, Pittsburgh Neuroscience Society

1984-1985 Preceptor, Summer Research Program for Minority Students, University of Pittsburgh School of Medicine

1985-1992 Member, First Year Retention Committee, University of Pittsburgh School of Medicine

1985-1990 Member, Ad Hoc Promotion Committees, University of Pittsburgh

1985-1986 Alternate Member, Student Promotion Committee

1987 Member, Search Committee for Chairman, Department of Obstetrics and Gynecology

1987-1993 Member, Student Promotion Committee

1987-1990 Member, Advisory Committee on Tenure, Appointments, and Promotions in the School of Medicine

1988 Co-Chairman, Committee on Simian Health Hazards

1988 Member, University of Pittsburgh Appeals Panel

1988 Member, Curriculum Committee, Center for Neuroscience, University of Pittsburgh

1989 Member, Ad Hoc Committee on Scientific Fraud

1990 Member, Search Committee for Chairman, Department of Obstetrics & Gynecology

1990-1991 Member, Goals and Integration Task Force, University of Pittsburgh School of Medicine

1994-1995 Member, School of Nursing Ad Hoc Review Committee, University of Pittsburgh School of Medicine

1994-2008 Member, Financial Affairs Committee, Department of Cell Biology and Physiology

1995 Member, Search Committee for Director, Division of Reproductive Endocrinology, Department of Obstetrics, Gynecology, and Reproductive Sciences

1996-2008 Member, Promotions Committee, Department of Cell Biology and Physiology

1999-2004 Member, Health Sciences Animal Research Advisory Committee

1999-2008	Resource Faculty Member, Center of Excellence in Obstetrics and Gynecology, Magee-Womens Research Institute
1999-2008	Member, Chairman's Advisory Committee, Department of Cell Biology and Physiology
2000-2006	Member, Steering Committee, Women's Reproductive Health Research Career Development Centers
2000-2003	Member, Reproductive Endocrinology and Infertility Program; Research and Training Conferences
2001-2006	Member, Executive Committee of Pittsburgh Development Center
2002-2015	Member, Executive Committee, Building Interdisciplinary Research Careers in Women's Health (BIRCWH) Award, Magee-Womens Research Institute
2003-2004	Member, Search Committee for Chair, Department of Obstetrics, Gynecology and Reproductive Sciences
2003-2008	Member, Business Plan Development Committee, Department of Cell Biology and Physiology
2004-2006	Member, Standing Committee for Tenured Faculty Promotions and Appointments
2006-2007	Member, Search Committee for Director, Magee-Womens Research Institute
2006-2014	Member, Magee-Womens Research Institute Steering Committee
2007-2014	Faculty, Division of Reproductive Endocrinology and Infertility Fellowship Program
2007-2014	Chair, Thesis Committee for Fellowship Program Research, Division of Reproductive Endocrinology and Infertility
2008-2010	Member, University of Pittsburgh School of Medicine Planning and Budgeting Committee
2010-2015	Member, Women's Reproductive Health Research Career Development Program
2010-2014	Member, Department of Obstetrics, Gynecology and Reproductive Sciences Steering Committee
2011-2015	Member, MWRI Facility Animal Committee
2015	Member, MWRI Institutional Animal Care and Use Committee