

July 2005

## CURRICULUM VITAE

### PERSONAL INFORMATION:

Name: **PETER PETRUSZ**

Social Security Number: ---

Office Address: Department of Cell and Developmental Biology  
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Home Address: ---

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Date of Birth: ---

Place of Birth: ---

Marital Status: ---

Citizenship: ---

Education: ---  
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Stockholm, Sweden  
Medical School, University of Pecs, Hungary  
M.D. (General Medicine), University of Pecs, Hungary  
Ph.D. (Reproductive Endocrinology), Karolinska Institute,

Employment: 1985- Professor, Department of Cell and Developmental Biology  
(---)  
University of North Carolina, Chapel Hill, NC  
1976-1985 Associate Professor, Department of Cell Biology & Anatomy  
(---)  
University of North Carolina, Chapel Hill, NC  
1971-1976 Assistant Professor, Department of Anatomy



Applied Immunohistochemistry & Molecular Morphology (1998-)  
Cell Biology International (1993-)  
Cell Vision-Journal of Analytical Morphology (1993-1998)  
Endocrinology (1994-1998)  
Journal of Histochemistry and Cytochemistry (1978-1986; 1995-1998)  
Journal of Chemical Neuroanatomy (1988-1990)  
The Histochemical Journal (1990-; Consulting Editor, 1992-93; North American Editor, 1994-1997)  
Neurobiology (1992-1995)  
Orvosi Hetilap/Hungarian Medical Weekly (2001-)

***Scientific Review Panels:***

NIH, Special Reviewer, Reproductive Biology Study Section, 1980  
NSF, Peer Reviewer, 1980-  
NIH, Special Reviewer, Neurological Sciences Study Section, 1982, 1984  
NIH, Member, Special Study Section (Site Visit: Departments of Pathology and Neurology, Albert Einstein College of Medicine), New York, 1982  
Tobacco and Health Research Institute, External Reviewer, University of Kentucky, 1983  
VA Medical Research Program, Consultant, Career Development Program, Washington, DC, 1983  
NIH, Member, Special Study Section (Site Visit: Department of Pathology, University of Western Ontario, London, Ontario, Canada), 1984  
NIH, Member, Special Review Committee (Site Visit: Laboratories for Neuroendocrinology, The Salk Institute, La Jolla, California), 1984  
NIH, Special Reviewer, Biomedical Sciences 3 (ad hoc) Study Section, 1984  
Duke University and VA Hospital, Reviewer, Stroke Center Program Project, Durham, NC, 1985  
U.S. Environmental Protection Agency, Consultant, Research Triangle Park, NC, 1985, 1986  
Blackwell Scientific Publications, Inc., Editorial Consultant, Palo Alto, CA, 1987  
NIEHS, Member, SBIR Phase I Review Group, Research Triangle Park, NC, 1991; Phase II Review Group, 1992  
Food and Drug Administration, Hematology and Pathology Devices Panel, Medical Devices Advisory Committee, Center for Devices and Radiological Health, (Consultant, 1995-2004; Member, 2004-)

***Reviewed manuscripts for the following journals:***

Acta Endocrinologica, Anatomical Record, American Journal of Anatomy, Applied Immunohistochemistry and Molecular Morphology, Biochimica and Biophysica Acta, Biology of Reproduction, Brain Research, Cell Biology International, Endocrinology, Endocrinology and Metabolism, Experimental Lung Research, Histochemical Journal, Hypertension, Journal of Andrology, Journal of Applied Physiology, Journal of Clinical Endocrinology and Metabolism, Journal of Chemical Neuroanatomy, Journal of Comparative Neurology, Journal of Histochemistry and Cytochemistry, Journal of Laboratory Investigation, Journal of Neuroscience Research, Life Sciences,

Neuroendocrinology, Peptides, Radiation Research, Reproductive Biology and Endocrinology, Science, Teratology.

***Committees:***

*Histochemical Society:* Symposium Organizer, 1982; Councilor, 1982-1986; Chairman, Nominations Committee, 1985; Secretary, 1987-1991; Chairman, Membership Committee, 1988-1991; Chairman, Bylaws Review Committee, 1988. Symposium Organizer, 1990; President-Elect, 1991; President, 1992-93; Symposium Organizer, 1993; Chairman, Nominations Committee, 1994.

*Hungarian Medical Association of America:* Member, Board of Directors, 1993-; Chairman, Editorial Board, 1995-; President-Elect, 1997; Symposium Organizer, 1998; President, 1999-2001; Past President and Chair of Nominations Committee, 2001-2003; Advisory Board, 2004-.

*International Brain Research Organization (IBRO):* Second World Congress, Workshop Organizer, 1987.

*UNC School of Medicine:* Neurobiology Program, Postdoctoral Admissions Committee, 1973-1974; Examinations Committee, 1985; UNC Institutional Self-Study Task Force: Subcommittee on Basic Science Departments, 1989. Faculty Council (1993-1996); CD1 (1<sup>st</sup> year course directors') Committee (2004-); Faculty Advisory Committee on Educational Technology (2005-); Member, Academy of Educators (2005-).

*UNC Department of Cell and Developmental Biology:* Histology Teaching Committee, 1976-; Graduate Studies Committee, 1977-1979; 1986-1989; Annual Report Committee, 1982-1983; Faculty Search Committee, 1983-1989; Graduate Examinations Committee, 1986-1989; Histology Summer Review, 1979, 1989, 1990, 1994, 1995, 1996. In-House Seminars, 1995-2004; Promotion Policy for Non-Tenure-Track Faculty Members, 2002; Promotions Committee for Non-Tenure-Track Faculty, 2003-.

**GRANTS FUNDED:**

Biology and Immunology of Gonadotropins. ---, 1971-1975.

Subcellular Localization of Gonadotropins. ---, 1971-1972.

Neuroendocrine Control of Reproduction. ---, 1973-1974.

Immunoperoxidase Localization of Ovarian Gonadotropin Binding Sites. ---, 1973-1974.

Human Pituitary Follicle Stimulating Hormone. ---, 1973-1974.

Ovarian Gonadotropin Binding Sites. Population Council, ---, 1974-1975.

Gonadotropins in Brain. ---, 1975-1977.

Neurobiology of Environmental Pollutants Program Project, Radioimmunoassay Group. NIH, 1975-1980.

FSH-Testis Interactions. NIH, 1976-1979.

Enkephalins and Other Biologically Active Peptides in Brain and Spinal Cord. ---, 1977-1978.

Secretory Proteins in the Male Reproductive System. ---, 1979-1980.

Epididymal Secretory Glycoproteins. ---, 1979-1980.

Secretory Proteins in the Male Reproductive System. NIH, 1979-1983. Continued: 1983-1987.

Travel Grant to the VI. ---). NSF, 1980.

Neuroendocrine Peptides in Brain and Pituitary. NIH, 1980-1984.

U.S.-Hungary Cooperative Science Project on Hypothalamic Control of the Anterior Pituitary. ---, 1986-1989.

Hypothalamic Control of the Anterior Pituitary. ---, 1986-1987.

Hypothalamic Control of the Anterior Pituitary. --- Research Council, 1987-1989.

Localization of the Excitatory Neurotransmitter Glutamate in the Rat Brain. ---, 1988-1989.  
Production and Characterization of Antisera Against NMDA Receptor Ligands. ---, 1989-1991.  
Endogenous Ligands for Glutamate Receptors in Brain. NIH, 1989-1993.  
Laboratories for Reproductive Biology P30 Core Center Grant, Radioimmunoassay Core. NIH, 1984-1987; Continued: 1987-1992; 1992-1997.  
Antibodies to the Human GnRH Receptor. ---, 1993-95.  
Does ABP regulate apoptosis in testis? ---, 1996-97.  
Molecular Regulation of Reproduction, U54 Center Grant, Immunotechnology & Histochemistry Core. NIH, 1997-2002; renewed 2002-2007.  
ABP and the Regulation of Germ Cell Apoptosis in Testis. NIH, 1998-2001.  
Differential gene expression in ABP-transgenic mice with impaired spermatogenesis. ---, 2000-2002.  
Regulation of Gene Expression During Spermatogenesis, NIH 2003-2006.

### TEACHING RESPONSIBILITIES

At the University of Pecs, Hungary (1960-1966) I taught gross anatomy, histology, embryology and neuroanatomy to medical students. I was responsible for laboratories in these subjects for an average of 10 hrs/week, two semesters per year.

At the Karolinska Institute (1967-1971) I contributed to a yearly seminar (graduate) course in reproductive endocrinology. My major responsibility was complete coverage of biostatistics and hormone assays.

At the University of North Carolina (1971-) my main teaching responsibility is as an instructor in Medical Histology (starting in 2004 as Course Director). This includes 6 contact hrs/week laboratory plus lectures (1-5 per semester) in the Spring Semester (total contact hours: 60 per semester until 2002; 40 per semester since 2003; total number of semesters taught to date: 33). The number of students is currently 160, or 32 in a laboratory. I have lectured on the following topics: epithelium, nervous system, immune system, skin, endocrine system, and male and female reproductive systems. In addition, for several years I was responsible for the Histology Summer Review (remedial) course for medical students. Starting in 2002-03, the Medical Histology course was shortened from 60 to 40 hours total contact time and scheduled in the spring instead of the fall semester. In 2003, together with Professor ---, we designed a new teaching tool, virtual microscopy, to replace microscope-based laboratory instruction with a computerized system using high-quality multi-resolution digital images. The first course using this system was successfully completed in the spring of 2004. I served (1972-1982) on the faculty of the Reproductive Biology course for 2nd year medical students. I gave 1-2 lectures (and laboratories) per year, covering neuroendocrinology, the pituitary gland, and gonadotropic hormones. In addition, I have given lectures in neuroanatomy and neurobiology courses.

### PRECEPTORSHIPS:

Proprietary information has been deleted.

## GRADUATE STUDENT ADVISORY COMMITTEES:

Proprietary information has been deleted.

## DOCTORAL DISSERTATIONS SUPERVISED:

Proprietary information has been deleted.

## POSTDOCTORAL FELLOWS AND RESEARCH ASSOCIATES:

Proprietary information has been deleted.

## VISITING SCIENTISTS:

Proprietary information has been deleted.

## PUBLICATIONS

### (A) ARTICLES IN REFEREED JOURNALS:

1. Petrusz P, Flerko B (1965) On the mechanism of the sexual differentiation of the hypothalamus. **Acta Biol Acad Sci Hung** 16:169-173.
2. Petrusz P, Nagy E (1967) On the mechanism of the sexual differentiation of the hypothalamus; decreased oestrogen sensitivity in androgen sterilized female rats. **Acta Biol Acad Sci Hung** 18:21-26.
3. Flerko B, Petrusz P, Tima L (1967) On the mechanism of sexual differentiation of the hypothalamus; factors influencing the "critical period" of the rat. **Acta Biol Acad Sci Hung** 18:27-36.
4. Petrusz P, Flerko B (1968) Effects of ovariectomy and oestrogen administration on pituitary and uterine weights in androgen-sterilized rats. **Acta Biol Acad Sci Hung** 19:159-162.
5. Robyn C, Petrusz P, Diczfalusy E (1969) Follicle stimulating hormone-like activity in human chorionic gonadotrophin preparations. **Acta Endocr** 60:137-156.
6. Petrusz P, Robyn C, Diczfalusy E (1970) Biological effects of human urinary follicle stimulating hormone. **Acta Endocr** 54:475.
7. Petrusz P, Robyn C, Diczfalusy E, Finney DJ (1970) Bioassay of antigonadotrophic sera. 4. Experimental verification of the principle of additivity. **Acta Endocr** 63:150-160.
8. Petrusz P, Diczfalusy E, Finney DJ (1971) Bioimmunoassay of gonadotrophins. 1. Theoretical considerations. **Acta Endocr** 67:40-46.

9. Petrusz P, Diczfalusy E, Finney DJ (1971) Bioimmunoassay of gonadotrophins. 2. Practical aspects and tests of additivity. **Acta Endocr** 67:47-62.
10. Petrusz P, Robyn C, Diczfalusy E (1971) Antigonalutrophic profiles of antisera against human gonadotrophin preparations. 1. Biological characterization of the antigens. **Acta Endocr** 67:249-261.
11. Petrusz P, Robyn C, Diczfalusy E (1971) Antigonalutrophic profiles of antisera against human gonadotrophin preparations. 2. Biological characterization of the antisera. **Acta Endocr** 67:262-276.
12. Robyn C, L'Hermite M, Petrusz P, Diczfalusy E (1971) Potency estimates of human gonadotrophin preparations by a bioassay and three immunoassay methods. **Acta Endocr** 67:417-433.
13. Matthies DL, Petrusz P, Diczfalusy E (1971) Relationships between physicochemical, immunological and biological properties of human chorionic gonadotrophin. 2. Biological and immunological behavior of several species of human chorionic gonadotrophin. **Acta Endocr** 67:445-456.
14. Petrusz P, Uhlarik S (1973) Light microscopic localization of binding sites for human chorionic gonadotrophin in luteinized rat ovaries by a peroxidase-labeled antibody method. **J Histochem Cytochem** 21:279-282.
15. French FS, McLean WS, Smith AA, Tindall DJ, Weddington SC, Petrusz P, Nayfeh SN, Ritzen EM, Hansson V, Trygstad O (1974) Androgen transport and receptor mechanisms in testis and epididymis. **Nature** 250:387-391.
16. Romani P, Robyn C, Petrusz P, Diczfalusy E (1974) Bioassay of antigonalutrophic sera. 5. Further studies on the reliability of the bioassay method for the estimation of the human chorionic gonadotrophin neutralizing potency. **Acta Endocr** 76:629-644.
17. Hansson V, Djoseland O, Attramadal A, Trygstad O, French FS, Stumpf WE, Sar M, McLean WS, Smith AA, Weddington SC, Steiner AL, Petrusz P, Nayfeh SN, Ritzen ME, Hagenas L (1974) Hormone binding and activation in the testis and epididymis. **Acta Pathol Microbiol Scand Sect A Suppl** 248:75-88.
18. Keefer DA, Stumpf WE, Petrusz P, Sar M (1975) Simultaneous autoradiographic and immunohistochemical localization of estrogen and gonadotropin in the rat pituitary. **Amer J Anat** 142:129-135.
19. Hansson V, Weddington SC, Petrusz P, Ritzen ME, Nayfeh SN, French FS (1975) FSH stimulation of testicular androgen binding protein (ABP): Comparison of ABP response and ovarian weight augmentation. **Endocrinology** 97:469-473.
20. Peng TC, Cooper CW, Petrusz P, Volpert EM (1975) Identification of C-cells in normal and goitrous rat thyroid tissue using antiserum to rat thyrocalcitonin and the immunoperoxidase bridge technique. **Endocrinology** 97:1537-1544.

21. Petrusz P, DiMeo P, Ordronneau P, Weaver C, Keefer DA (1975) Improved immunoglobulin-enzyme bridge method for light microscopic demonstration of hormone-containing cells of the rat adenohypophysis. **Histochemistry** 46:9-26.
22. Weddington SC, Brandtzaeg P, Hansson V, French FS, Petrusz P, Nayfeh SN, Ritzen ME (1975) Immunological cross-reactivity between testicular androgen binding protein (ABP) and serum testosterone binding globulin (TeBG). **Nature** 258:257-258.
23. Keefer DA, Stumpf WE, Petrusz P (1976) Quantitative autoradiographic assessment of 3H-estradiol uptake in immunocytochemically characterized pituitary cells. **Cell Tiss Res** 166:25-35.
24. Petrusz P, Sar M, Ordronneau P, DiMeo P (1976) Specificity in immunocytochemical staining. **J Histochem Cytochem** 24:1110-1112.
25. Rees HD, Stumpf WE, Sar M, Petrusz P (1977) Autoradiographic studies of 3H-dexamethasone uptake by immunocytochemically characterized cells of the rat pituitary. **Cell Tiss Res** 183:347-356.
26. Petrusz P, Sar M, Ordronneau P, DiMeo P (1977) Reply to the letter of Swaab et al.: "Can specificity ever be proved in immunocytochemical staining?" **J Histochem Cytochem** 25:390-391.
27. Petrusz P, Sar M, Grossman G, Kizer JS (1977) Synaptic terminals with somatostatin-like immunoreactivity in the rat brain. **Brain Res** 137:181-187.
28. Lea O, Petrusz P, French FS (1978) Purification and localization of acidic epididymal glycoprotein (AEG): A sperm coating protein secreted by the rat epididymis. **Internat J Androl Suppl** 2:592-605.
29. Lea O, Petrusz P, French FS (1979) Purification and localization of prostatein, a major secretory protein of the rat ventral prostate. **J Biol Chem** 254:6196-6202.
30. Finley JCW, Grossman GH, DiMeo P, Petrusz P (1978) Somatostatin neurons in the rat brain: Widespread distribution revealed by immunocytochemistry after pretreatment with pronase. **Amer J Anat** 153:483-488.
31. Petrusz P, Weaver CM, Grant LD, Mushak P, Krigman MR (1979) Lead poisoning and reproduction: Effects on pituitary and serum gonadotropins in neonatal rats. **Envir Res** 19:383-391.
32. Petrusz P, Ordronneau P, Finley JCW (1980) Criteria of reliability for light microscopic immunocytochemistry. **Histochem J** 12:333-348.
33. Ordronneau P, Petrusz P (1980) Immunocytochemical demonstration of anterior pituitary hormones in the pars tuberalis of long-term hypophysectomized rats. **Amer J Anat** 158:491-506. Invited paper for the Burton Baker Memorial Issue of the American Journal of Anatomy.
34. Kierszenbaum AL, Feldman M, Lea O, Spruill WA, Tres LL, Petrusz P, French FS (1980) Localization of androgen binding protein in proliferating rat Sertoli cell cultures. **Proc Natl Acad Sci USA** 77:5322-5326.



35. Rethelyi M, Vigh S, Setalo G, Merchenthaler I, Flerko B, Petrusz P (1981) The luteinizing hormone releasing hormone-containing pathways and their cotermination with tanycyte processes in and around the median eminence and pituitary stalk of the rat. **Acta Morph Acad Sci Hung** 29:259-283.
36. Finley JCW, Maderdrut JL, Petrusz P (1981) The immunocytochemical localization of enkephalin in the central nervous system of the rat. **J Comp Neurol** 198:541-565.
37. Finley JCW, Maderdrut JL, Roger LJ, Petrusz P (1981) The immunocytochemical localization of somatostatin-containing neurons in the rat nervous system. **Neuroscience** 6:2173-2192.
38. Feldman M, Lea OA, Petrusz P, Tres LL, Kierszenbaum AL, French FS (1981) Androgen binding protein (ABP): Purification from rat epididymis, characterization and immunocytochemical localization. **J Biol Chem** 256:5170-5175.
39. Finley JCW, DiMeo P, Petrusz P (1981) The immunocytochemical localization of beta-endorphin in the rat brain. **Neuroendocrinology** 33:28-42.
40. Kierszenbaum AL, Lea OA, Petrusz P, French FS, Tres LL (1981) Isolation, culture and immunocytochemical characterization of epididymal epithelial cells from puberal and adult rats. **Proc Natl Acad Sci USA** 78:1675-1679.
41. Ordronneau P, Lindstrom PBM, Petrusz P (1981) Four unlabeled antibody bridge techniques: A comparison. **J Histochem Cytochem** 29:1397-1404.
42. Wilson EM, French FS, Petrusz P (1982) Elevated levels of transferrin in rat prostate Dunning tumor. **Cancer Res** 42:243-251.
43. Maderdrut JL, Yaksh TL, Petrusz P, Go VLW (1982) Origin and distribution of cholecystokinin-containing nerve terminals in the lumbar dorsal horn and subnucleus caudalis of the cat. **Brain Res** 243:363-368.
44. Lauder JM, Wallace JA, Krebs H, Petrusz P, McCarthy K (1982) In vivo and in vitro development of serotonergic neurons. **Brain Res Bull** 9:605-625.
45. Wallace JA, Petrusz P, Lauder JM (1982) Serotonin immunocytochemistry in the adult and developing rat brain: Methodological and pharmacological considerations. **Brain Res Bull** 9:117-130.
46. Lauder JM, Petrusz P, Wallace JA, DiNome A, Wilkie MB, McCarthy K (1982) Combined serotonin immuno-cytochemistry and 3H-thymidine autoradiography: In vivo and in vitro methods. **J Histochem Cytochem** 30:788-793.
47. Vigh S, Merchenthaler I, Torres-Aleman I, Sueiras-Diaz J, Coy DH, Carter WH, Petrusz P, Schally AV (1982) Corticotropin releasing factor (CRF): Immunocytochemical localization and radioimmunoassay (RIA). **Life Sci** 31:2441-2448.

48. Merchenthaler I, Vigh S, Petrusz P, Schally AV (1982) Immunocytochemical localization of corticotropin releasing factor (CRF) in the rat brain. **Amer J Anat** 165:385-396.
49. Petrusz P (1982) Essential requirements for the validity of immunocytochemical staining procedures. **J Histochem Cytochem** 31:177-179.
50. Light AR, Kavookjian AM, Petrusz P (1983) The ultrastructure and synaptic connections of serotonin-immunoreactive terminals in spinal laminae I and II. **Somatosens Res** 1:33-50.
51. Merchenthaler I, Vigh S, Petrusz P, Schally AV (1983) The paraventriculo-infundibular corticotropin releasing factor (CRF)-pathway as revealed by immunocytochemistry in long-term hypophysectomized or adrenalectomized rats. **Regul Pept** 5:295-305.
52. Petrusz P, Merchenthaler I, Maderdrut JL, Vigh S, Schally AV (1983) Corticotropin releasing factor (CRF)-like immunoreactivity in the vertebrate endocrine pancreas. **Proc Natl Acad Sci USA** 80:1721-1725.
53. Merchenthaler I, Hynes MA, Vigh S, Schally AV, Petrusz P (1983) Immunocytochemical localization of corticotropin releasing factor (CRF) in the rat spinal cord. **Brain Res** 275:373-377.
54. Honda CN, Rethelyi M, Petrusz P (1983) Preferential immunohistochemical localization of vasoactive intestinal polypeptide (VIP) in the sacral spinal cord of the cat: Light and electron microscopic observations. **J Neurosci** 3:2183-2196.
55. Merchenthaler I, Hynes MA, Vigh S, Schally AV, Petrusz P (1984) Corticotropin releasing factor (CRF): Origin and course of afferent pathways to the median eminence (ME) of the rat hypothalamus. **Neuroendocrinology** 39:296-306.
56. Petrusz P, Merchenthaler I, Ordonneau P, Maderdrut JL, Vigh S, Schally AV (1984) Corticotropin releasing factor (CRF)-like immunoreactivity in the gastro-entero-pancreatic endocrine system. **Peptides** 5, Suppl 1:71-78.
57. Merchenthaler I, Gorcs T, Setalo G, Petrusz P, Flerko B (1984) Gonadotropin releasing hormone (GnRH) neurons and pathways in the rat brain. **Cell Tiss Res** 237:15-29.
58. Merchenthaler I, Vigh S, Schally AV, Petrusz P (1984) Immunocytochemical localization of growth hormone-releasing factor in the rat brain. **Endocrinology** 114:1082-1085.
59. Petrusz P, Merchenthaler I, Maderdrut JL, Heitz PhU (1985) Central and peripheral distribution of corticotropin releasing factor. **Fed Proc** 44:229-235.
60. Merchenthaler I, Maderdrut JL, Altschuler RA, Petrusz P (1986) Immunocytochemical localization of proenkephalin-derived peptides in the central nervous system of the rat. **Neuroscience** 17:325-348.
61. Asa SL, Kovacs K, Vale W, Petrusz P, Vecsei P (1987) Immunohistological localization of corticotropin-releasing hormone in human tumors. **Am J Clin Pathol** 87:327-333.

62. Conti F, Rustioni A, Petrusz P, Towle AC (1987) Glutamate-positive neurons in the somatic sensory cortex of rats and monkeys. **J Neurosci** 7:1887-1901.
63. Merchenthaler I, Maderdrut JL, Lazar G, Gulyas J, Petrusz P (1987) Immunocytochemical analysis of proenkephalin-derived peptides in the amphibian hypothalamus and optic tectum. **Brain Res** 416:219-227.
64. Merchenthaler I, Culler MD, Petrusz P, Negro-Vilar A (1987) Immunocytochemical localization of inhibin in rat and human reproductive tissues. **Molec Cell Endocr** 54:239-243.
65. Hepler JR, Toomim CS, McCarthy KD, Conti F, Battaglia G, Rustioni A, Petrusz P (1988) Characterization of antisera to glutamate and aspartate. **J Histochem Cytochem** 36:13-22.
66. Merchenthaler I, Csernus V, Csontos C, Petrusz P, Mess B (1988) New data on the immunocytochemical localization of thyrotropin releasing hormone (TRH) in the rat central nervous system. **Amer J Anat** 181:359-376.
67. Merchenthaler I, Maderdrut JL, Weber E, Petrusz P (1988) Characterization of metorphamide-like immunoreactivity in the zona incerta and lateral hypothalamus: Co-localization with alpha-melanocyte-stimulating hormone-like immunoreactivity. **Brain Res** 452:87-96.
68. DiAugustine RP, Petrusz P, Bell GI, Brown CF, Korach KS, McLachlan JA, Teng CT (1988) Influence of estrogens on mouse uterine epidermal growth factor precursor protein and mRNA. **Endocrinology** 122:2355-2363.
69. Cooke DB, Quarmby VE, Petrusz P, Mickey DD, Der CJ, French FS (1988) Expression of ras proto-oncogenes in the Dunning R-3327 rat prostatic adenocarcinoma system. **Prostate** 13:273-287.
70. Merchenthaler I, Culler MD, Negro-Vilar A, Petrusz P, Flerko B (1988) The pro-LHRH system of the rat brain. Effects of changes in the endocrine background. **Brain Res Bull** 20:713-720.
71. Merchenthaler I, Culler MD, Petrusz P, Flerko B, Negro-Vilar A (1989) Immunocytochemical localization of the gonadotropin-releasing hormone-associated peptide of the LHRH precursor in the rat brain. **Cell Tiss Res** 255:5-14.
72. Merchenthaler I, Setalo G, Petrusz P, Negro-Vilar A, Flerko B (1989) Identification of hypophysiotropic luteinizing hormone-releasing hormone (LHRH) neurons by combined retrograde labeling and immunocytochemistry. **Exp Clin Endocrinol** 94:133-140.
73. Merchenthaler I, Meeker M, Petrusz P, Kizer JS (1989) Identification and immunocytochemical localization of a new TRH precursor in rat brain. **Endocrinology** 124:1888-1897.
74. Schambra UB, Sulik KK, Petrusz P, Lauder JM (1989) Ontogeny of cholinergic neurons in the mouse forebrain. **J Comp Neurol** 288:101-122.

75. Charest NJ, Petrusz P, Ordroneau P, Joseph DR, Wilson EM, French FS (1989) Developmental expression of an androgen-regulated epididymal protein. **Endocrinology** 125:942-947.
76. Merchenthaler I, Setalo G, Csontos C, Petrusz P, Flerko B, Negro-Vilar A (1989) Combined retrograde tracing and immunocytochemical identification of luteinizing hormone-releasing hormone- and somatostatin-containing neurons projecting to the median eminence of the rat. **Endocrinology** 125: 2812-2821.
77. Wang YM, Sullivan PM, Petrusz P, Yarbrough W, Joseph DR (1989) The androgen-binding protein gene is expressed in CD1 mouse testis. **Mol Endocrinol** 63:85-92.
78. Schambra UB, Lauder JM, Petrusz P, Sulik KK (1990) Development of neurotransmitter systems in the mouse embryo following acute ethanol exposure: A histological and immunocytochemical study. **Int J Develop Neurosci** 8:507-522.
79. Jakab G, Salamon I, Petrusz P, Rethelyi M (1990) Termination patterns of calcitonin gene-related peptide-immunoreactive nerve fibers in the dorsal horn of the human spinal cord. **Exp Brain Res** 80:609-617.
80. Rethelyi M, Mohapatra MK, Metz CB, Petrusz P, Lund PK (1991) Colchicine enhances mRNAs encoding the precursor of calcitonin gene-related peptide in brain stem motoneurons. **Neuroscience** 42:531-539.
81. Petrusz P, Van Eyck SL, Weinberg RJ, Rustioni A (1990) Antibodies to glutamate and aspartate recognize non-endogenous ligands for excitatory amino acid receptors. **Brain Res** 529:339-344.
82. Hamori J, Takacs J, Verley R, Petrusz P, Farkas-Bangeton E (1990) Immunogold electron microscopic demonstration of GABA and glutamate in normal and vibrissal afferent-deprived ventrobasal thalamic complex of mice. **J Comp Neurol** 302:739-748.
83. Conti F, DeBiasi S, Fabri M, Abdullah L, Manzoni T, Petrusz P (1992) Substance P-containing pyramidal neurons in the cat somatic sensory cortex. **J Comp Neurol** 322:136-148.
84. Hamori J, Takacs J, Petrusz P (1990) Immunogold electron microscopic demonstration of glutamate and GABA in normal and deafferented cerebellar cortex: correlation between transmitter content and synaptic vesicle size. **J Histochem Cytochem** 38:1767-1777.
85. Wang YM, Bayliss DA, Millhorn DE, Petrusz P, Joseph DR (1990) The androgen-binding protein gene is expressed in male and female rat brain. **Endocrinology** 127:3124-3130.
86. Sullivan PM, Petrusz P, Szpirer C, Joseph DR (1990) Alternative processing of androgen-binding protein RNA transcripts in fetal rat liver. **J Biol Chem** 266:143-154.
87. Ordroneau P, Abdullah LH, Petrusz P (1991) An efficient enzyme immunoassay for glutamate using glutaraldehyde for coupling of the hapten to microtiter plates. **J Immunol Methods** 142:169-176.

88. Parducz A, Dobo E, Wolff JR, Petrusz P, Erdo SL (1992) GABA immunoreactive structures in rat kidney. **J Histochem Cytochem** 40:675-680.
89. Ordroneau P, Woodley JC, Grossman G, Abdullah LH, Lazarus LH, Petrusz P (1992) Characterization of an antiserum to Glycyl-D-Aspartate (GDA) and its use as a probe for endogenous N-methyl- D-aspartate (NMDA)-like compounds. **Mol Cell Neurosci** 3:259-266.
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