

## CURRICULUM VITAE

Jeffrey B. Tatro, Ph.D.

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2004-Present Founder-member/manager, **WinningSubmissions LLC** and **GrantRescue<sup>SM</sup>**  
Scientific consulting, editing & writing services  
<http://www.grantrescue.com>

### EDUCATION

<u>Year</u>	<u>Degree</u>	<u>Institution</u>	<u>Field</u>
1976	B.S.	Union College, Schenectady, NY	Biological Sciences
1985	Ph.D.	The University of Michigan	Physiology
1985-88	Postdoc	New England Medical Center Hospital (now Tufts Medical Center) Endocrinology Division	Endocrinology

### SCIENTIFIC CONSULTING, EDITING, WRITING

#### ***Grant Consulting, Editing & Writing***

1990-2004 Informal consulting review of colleagues' grant proposals; leading to award of 5 NIH R01 grants, one NIH K08 award, one foreign new investigator grant (MRC, Canada).

2004-Present **GrantRescue<sup>SM</sup>; GrantRescue.com** Consulting, editing, writing on client grant proposals to NIH and other funding agencies. Various client grants awarded (R01, R21, R33, NSF, EPA, DoD, SBIR; includes multi-component, international collaborative and Center grants; several on 1st submission).

#### ***Biomedical Publications Writing & Consulting***

2004-Present **WinningSubmissions.com** Substantive editing and writing of peer-reviewed scientific primary research articles for publication. Publications in *American Journal of Physiology-Heart and Circulatory Physiology*; *American Journal of Physiology-Regulatory, Integrative & Comparative Physiology*; *Arteriosclerosis, Thrombosis and Vascular Biology*; *Diabetologia*; *Experimental Physiology*; *Journal of Applied Physiology*; *Journal of the National Cancer Institute (JNCI)*; *Journal of Physiology*; & others.

#### ***Client publications list (see later sections for Tatro academic publications and grants)***

### **2005-Present**

1. Dick TE, Shannon R, Lindsey BG, Nuding SC, Segers LS, Baekey DM, Morris KF. Arterial pulse modulated activity is expressed in respiratory neural output. *J. Appl. Physiol.* 99:691-8, 2005. Epub 2005 Mar 10.
2. Yang X, Coriolan D, Schultz K, Golenbock DT, Beasley D. Toll-like receptor 2 mediates persistent chemokine release by *Chlamydia pneumoniae*-infected vascular smooth muscle cells. *Arterioscler. Thromb. Vasc. Biol.* 25:2308-14, 2005.
3. Yang X, Coriolan D, Murthy V, Schultz K, Golenbock DT, Beasley D. Proinflammatory phenotype of vascular smooth muscle cells: role of efficient Toll-like receptor 4 signaling. *Am. J. Physiol. Heart Circ. Physiol.* 289:H1069-76, 2005.

4. Schultz K, Fanburg BL, Beasley D. Hypoxia and hypoxia-inducible factor-1- $\alpha$  promote growth factor-induced proliferation of human vascular smooth muscle cells. *Am. J. Physiol. Heart Circ. Physiol.* 290:H2528-34, 2006.
- 5.\* Yang X, Murthy V, Schultz K, Tatro JB, Fitzgerald KA, Beasley D. Toll-like receptor 3 signaling evokes a proinflammatory and proliferative phenotype in human vascular smooth muscle cells. *Am. J. Physiol, Heart Circ. Physiol.* 291(5):H2334-43, 2006.
6. Dick TE, Hsieh YH, Wang N, Prabhakar N. Acute intermittent hypoxia increases both phrenic and sympathetic nerve activities in the rat. *Exp. Physiol.* Jan; 92:87-97, 2007. Epub 2006 Nov 30.
7. Hsieh Y-H, Dick TE, Siegel RE. Adaptation to hypobaric hypoxia involves GABA<sub>A</sub> receptors in the pons. *Am. J. Physiol. Regul. Integr. Comp. Physiol.*, 294:R549—R557, 2008.
- 8.\* Schultz K, Murthy M, Tatro JB, Beasley D. Endogenous interleukin-1 $\alpha$  promotes a proliferative and proinflammatory phenotype in human vascular smooth muscle cells. *Am. J. Physiol, Heart Circ. Physiol.*, 292(6):H2927-34, 2007. Epub 2007 Feb 9.
9. Ligon B, Yang J, Morin SB, Ruberti MF, Steer ML. Regulation of pancreatic islet cell survival and replication by  $\gamma$ -aminobutyric acid. *Diabetologia.* 50(4):764-73, 2007.
10. Gordon GJ, Dong L, Yeap BY, Richards WG, Glickman JN, Edenfield H, Mani M, Colquitt R, Maulik G, Van Oss B, Sugarbaker DS, Bueno R. Four-gene expression ratio test for survival in patients undergoing surgery for mesothelioma. *J Natl Cancer Inst.* 2009 May 6;101(9):678-86. Epub 2009 Apr 28..
- 11.\* Schultz K, Murthy V, Tatro JB, Beasley D. Prolyl hydroxylase 2 deficiency limits proliferation of vascular smooth muscle cells by HIF- $\alpha$ -dependent mechanisms. *Am. J. Physiol, Lung Cell. Mol. Physiol.*, in press, 2009. Epub 2009.
12. Dutschmann, M., M. Morschel, I. A. Rybak, and T. E. Dick. 2009. Learning to breathe: control of the inspiratory-expiratory phase transition shifts from sensory- to central-dominated during postnatal development in rats. *J Physiol* 587 (Pt 20):4931-48.
- 13.\* Higashimori M, Tatro JB, Moore KJ, Mendelsohn ME, Galper JB, Beasley D. Role of toll-like receptor 4 in intimal foam cell accumulation in apolipoprotein E-deficient mice. *Arterioscler Thromb Vasc Biol.* 2011 Jan;31(1):50-7. Epub 2010 Oct 21.
- 14.\*  $\gamma\delta$ T cells are prevalent in the proximal aorta and drive nascent atherosclerotic lesion progression and neutrophilia in hypercholesterolemic mice. Vu DM, Tai A, Tatro JB, Karas RH, Huber BT, Beasley D. *PLoS One.* 2014 Oct 14;9(10):e109416. doi: 10.1371/journal.pone.0109416. eCollection PMID: 25313857

\* Listed also under Tatro bibliography due to coauthorship

#### **Pharmaceutical Research & Development**

- 1994 Bristol-Myers-Squibb, Wallingford, Connecticut. Consultant, melanocortin discovery.
- 1997-99 Trega Biosciences, Inc. Consultant, melanocortin discovery program.
- 2003 Millenium Pharmaceuticals Inc. Scientific Advisory Board, Cachexia program.
- 2005 Millenium Pharmaceuticals Inc. Scientific Advisory Board, Pharmacodynamics
- 2008 Biopharmaceutical firm, Boston (confidential client). CNS receptor-targeted receptor agents discovery program.

#### **Research Products Development, Commercialization, Licensing**

- Anti- $\alpha$ -MSH sheep polyclonal antibody; Millipore Corp. (Chemicon International) cat. no. AB5087  
The world's premier reagent for immunohistochemical visualization of  $\alpha$ -MSH-containing neurons and other targets in humans and other species, with exquisite sensitivity, specificity and suitability for multiple-labeling studies.

#### **ACADEMIC APPOINTMENTS**

- 1988-98 Assistant Professor, Dept. of Medicine, Tufts University School of Medicine;  
Div. of Endocrinology, Diabetes, Metabolism & Molecular Medicine, New

1997-99 England Medical Center Hospitals (Primary appointment)  
 Assistant Professor, Dept. of Pharmacology & Experimental Therapeutics,  
 Tufts University School of Medicine (Secondary appointment)

1998-99 Assistant Professor, Pharmacology & Experimental Therapeutics, Sackler  
 Graduate School of Biomedical Sciences

1999-Present Associate Professor, Dept. of Medicine, Tufts University School of Medicine;  
 Div. of Endocrinology, Diabetes, Metabolism & Molecular Medicine, Tufts  
 Medical Center (formerly New England Medical Center Hospitals; Primary  
 appointment)

1999-Present Associate Professor, Dept. of Pharmacology & Experimental Therapeutics,  
 Tufts University School of Medicine and Sackler School of Graduate  
 Biomedical Sciences (Secondary appointment)

2007-08 Special & Scientific Staff, Molecular Cardiology Research Institute, Tufts  
 Medical Center (part-time position). Scientific research, consulting, editing,  
 writing.

### **AWARDS AND HONORS**

1976 Honors in Biological Sciences, Union College

1979-84 Physiology Department Fellowship, The University of Michigan

1982 Grant-in-Aid of Research, Sigma Xi Society

1982-83 Predoctoral Fellowship, American Diabetes Assoc.-Michigan Affiliate

1983-84 Predoctoral Fellowship, American Diabetes Assoc.-Michigan Affiliate

1986 Individual National Research Service Award, NIADDKD  
 Project Title: Immunoregulatory Role of  $\alpha$ -MSH

2000 Honorary visiting examiner, Ph.D. defense, Rudolph Magnus Institute for  
 Neuroscience, University of Utrecht, The Netherlands.

2007 Innovation Award Poster, *BIO 07* International Convention, Boston, MA.

## **PRIOR RESEARCH CAREER INTERESTS**

1985-2005 Receptor discovery and pharmacology, physiological roles of endogenous CNS and peripheral neuropeptide-receptor systems. Roles, neuropharmacology, neuroanatomy and pathophysiology of central (hypothalamic and brainstem) neuropeptide receptors in host defense (immunity, fever, inflammation), thermoregulation, addiction, autonomic systems, energy metabolism, obesity, appetite regulation, neuroprotective role of melanocortins in cerebral ischemia, novel receptor-targeted antineoplastic agents for melanoma.

2004-present Roles of proinflammatory receptors and mediators in vascular disease and vascular smooth muscle cells (collaboration)

## **MEMBERSHIPS**

1983	American Physiological Society
1991	The Endocrine Society
1993	The Society for Neuroscience
2005	American Medical Writers Association
2011	New England Science Writers

## **PEER REVIEW ACTIVITIES**

*Ad hoc* reviewer for journals including:

*Amer. Journal of Physiology, Biochemistry, Brain Research, Cancer Research, Endocrinology, European Journal of Pharmacology, Journal of Comparative Neurology, Journal of Neurochemistry, Journal of Neuroscience; Journal of Pharmacology & Experimental Therapeutics; Molecular Endocrinology, Molecular Pharmacology, Nature, Neuropsychopharmacology, Proceedings of the National Academy of Sciences, Peptides*

## **GRANTS REVIEWED FOR:**

Various years	National Science Foundation
2004	NIH ZRG1 NRB special Emphasis Panel, <i>ad hoc</i> reviewer
Various years	Various foreign national research agencies. <i>ad hoc</i> grant reviewer.
Various years	Various intra-institutional grant proposals: Tufts-New England Medical Center, Lifespan Healthcare System, Tufts university Medical School.

## **DIVISIONAL/INSTITUTIONAL ASSIGNMENTS**

1996-2000	Organizer, Endocrinology Grand Rounds program, Div. of Endocrinology, Diabetes, Metabolism & Molecular Medicine, Dept. of Medicine, New England Medical Center Hospitals
2000-	Co-Organizer, Endocrinology Grand Rounds program, Div. of Endocrinology, Diabetes, Metabolism & Molecular Medicine, Dept. of Medicine, New England Medical Center Hospitals
1994-	Program faculty, Training Program in Diabetes, Endocrinology & Metabolism
2001	Codeveloper, Endocrine Division website
2002-	Committee on Research Specialists, Tufts-New England Medical Center
Various years	New England Medical Center, Tufts Univ. Med. School, Lifespan Inc. Peer reviewer, institutional grant applications.
2009	Fellow/junior faculty grantwriting workshops series, Tufts Medical Center

## **NATIONAL/INTERNATIONAL ACTIVITIES AND ASSIGNMENTS**

1995	Symposium organized and chaired, 16th Winter Neuropeptide Conference, Breckenridge, Colo. "Melanocortin receptors and functional antagonism in the pro-opiomelanocortin neuron system"
1995	Symposium organized and chaired, Experimental Biology '95, Atlanta, Ga., sponsored by the American Physiological Society. "Melanocortin Receptor Structure and Function: Neural, Pigmentary and Immunomodulatory Functions"

1997- International Union of Pharmacologists (IUPHAR). Subcommittee for standardization of melanocortin receptor nomenclature  
 2004 NIH ZRG1 NRB special Emphasis Panel, *ad hoc* reviewer  
 2004 Swiss National Research Fund, National Research Program. *Ad hoc* grant reviewer.  
 Various years Various foreign national research agencies. *Ad hoc* grant reviewer.

**RESEARCH GRANTS AWARDED (Tatro)**

**NIH GRANTS**

PI	Agency	No.	Title
*Tatro	NIMH 5/99 - 3/05	5RO1 MH44694	<i>Roles of Endogenous <math>\alpha</math>-MSH in Fever and Immunity</i>
*Tatro	NIMH 4/95 - 3/99	5 RO1 MH44694	<i>Roles of Endogenous <math>\alpha</math>-MSH in Fever and Immunity</i>
*Tatro	NIMH 4/92 - 3/95	5 RO1 MH44694	<i>Roles of Endogenous <math>\alpha</math>-MSH in Fever and Immunity</i>
*Tatro	NIMH 9/88 - 8/91	1RO1 MH44694	<i>Roles of Endogenous <math>\alpha</math>-MSH in Fever and Immunity</i>
*Tatro	NIMH 7/96 - 6/98	5RO1 MH44694	<i>Roles of Endogenous <math>\alpha</math>-MSH in Fever and Immunity (Research Supplement)</i>
Sabban	NINDS 4/04 - 3/06	1R01NS044218-01A2	<i>Sympathetic ganglia: New target for ACTH with Stress</i>
		Role: Consultant/Consortium	
*Rubin	NIEHS	1R21ES13884-01	<i>Does perinatal exposure to Bisphenol A contribute to adult obesity?</i>
		Role: Consultant (10% Effort); Major contributor to grant design and writing.	

\* Indicates grants awarded on first submission

**PRIVATE/FOUNDATION/INDUSTRY GRANTS (Tatro)**

PI	Agency	No.	Title
Tatro	New Engl. Med. Ctr. Research Fund 11/99 - 10/00	N/A	<i>Neuroprotective Role of Melanocortins in Cerebral Ischemia</i>
*Tatro	Am. Cancer Soc. 2/89 - 1/91	RD-285	<i>Detection of <math>\alpha</math>-MSH Receptors in Human Melanoma</i>
*Tatro	Am. Cancer Soc., Mass. Chapter 1/92 -12/92		<i>Autocrine Growth Regulation by Melanotropins in Human Melanoma and Lung Cancer</i>
*Tatro	Elsa U. Pardee Foundation 1/92 - 12/92		<i>Cytotoxic Efficacy of <math>\alpha</math>-Melanocyte Stimulating Hormone-Diphtheria Toxin Fusion Protein in Malignant Melanoma</i>
*Tatro	Seragen, Inc. 8/91 - 7/92		<i>Melanotropin Receptor-Mediated Cytotoxic Responses in Human Metastatic Melanoma</i>

\* Indicates grants awarded on first submission

**Grants having private clients as PI not listed. Some are confidential; information on others available on case-by-case basis.**

## **POSTDOCTORAL AND PREDOCTORAL FELLOWSHIPS & GRANTS (Tatro)**

Yr	Agency	Title
1986-88	NIADDDK F32 DK007927	Individual National Research Service Award <i>Project Title: Immunoregulatory Role of <math>\alpha</math>-MSH</i>
1983-84	Am. Diabetes Assoc. Michigan Affiliate	Predoctoral Fellowship
1982-83	Am. Diabetes Assoc. Michigan Affiliate	Predoctoral Fellowship
1982	Sigma Xi Society	Grant-in-Aid of Research
1979-84	Univ. of Michigan	Physiology Department Fellowship

## **BIBLIOGRAPHY *h-index: 33***

(Authorship by Jeffrey B. Tatro—see <http://www.winningsubmissions.com> for listing of publication topics and journals including clients')

### **PRIMARY RESEARCH ARTICLES**

1. Kaplan MM, Tatro JB, Breitbart R, Larsen PR. Comparison of thyroxine and 3,3',5'-triiodothyronine metabolism in rat kidney and liver homogenates. *Metabolism* 28:1139-46, 1979.
2. Cannon JG, Tatro JB, Reichlin S, Dinarello CA.  $\alpha$ -melanocyte stimulating hormone inhibits immunostimulatory and inflammatory actions of interleukin 1. *J. Immunol.* 137:2232-36, 1986.
3. Tatro JB, Schwartz J. Metabolic effects of acute and prolonged growth hormone deficiency in streptozotocin-diabetic rats. *Endocrinology* 120:373-80, 1987.
4. Tatro JB, Reichlin S. Receptors for  $\alpha$ -melanocyte stimulating hormone are widely distributed in tissues of rodents. *Endocrinology* 121:1900-1907, 1987.
5. Hann LE, Tatro JB, Sullivan DA. Morphology and function of lacrimal gland acinar cells in primary culture. *Invest. Ophthalmol. Vis. Sci.* 30:145-158, 1989.
6. Tatro JB, Entwistle ML, Lester BR, Reichlin S. Melanotropin receptors of murine melanoma characterized in cultured cells and demonstrated in experimental tumors *in situ*. *Cancer Research* 50:1237-1242, 1990.
7. Entwistle ML, Hann LE, Sullivan DA, Tatro JB. Characterization of functional melanotropin receptors in lacrimal glands of the rat. *Peptides* 11:477-483, 1990.
8. Tatro JB, Atkins M, Mier JW, Hardarson S, Wolfe H, Smith T, Entwistle ML, Reichlin S. Melanotropin receptors demonstrated *in situ* in human melanoma. *J. Clin. Invest.* 85:1825-1832, 1990.
9. Tatro JB. Melanotropin receptors in the brain are differentially distributed and recognize both corticotropin and  $\alpha$ -melanocyte stimulating hormone. *Brain Research* 536:124-132, 1990.
10. Tatro JB, Wen Z, Entwistle ML, Atkins MB, Smith TJ, Reichlin S, Murphy JR. Interaction of an  $\alpha$ -melanocyte stimulating hormone-diphtheria toxin fusion protein with melanotropin receptors in human melanoma metastases. *Cancer Research*, 1992.
11. Roselli-Reh fuss, L, Mountjoy, KG, Robbins LS, Mortrud, MT, Low, MJ, Tatro JB, Entwistle, ML, Simerly, RB, and Cone RD. Identification of a receptor for  $\gamma$ -MSH and other proopiomelanocortin peptides in the hypothalamus and limbic system. *Proc. Nat. Acad. Sci. USA*, 90:8856-8860, 1993.
12. Tatro JB. Brain receptors for central and peripheral melanotropins. *Ann. N.Y. Acad. Sci.*, 80: 863-867, 1993.
13. Tatro JB, Entwistle ML: Heterogeneity of brain melanocortin receptors suggested by differential ligand binding *in situ*. *Brain Research*, 635:148-158, 1994.
14. Tatro JB, Romero L, Beasley D, Steere AC, Reichlin S. Induction of nitric oxide and interleukin-6 production in cultured rat brain cells by *Borrelia burgdorferi*. *J. Infect. Dis.*, 169:1014-1022, 1994.
15. Tatro JB, Entwistle ML. Distribution of melanocortin receptors in the lower brainstem of the rat. *Ann. N.Y. Acad. Sci.*, 739:311-314, 1994.
16. Tatro JB, Entwistle ML. Identification of a specific mammalian melanocortin receptor antagonist. *Ann. N.Y. Acad. Sci.*, 739:315-319, 1994.
17. Romero LI, Tatro JB, Field JA, Reichlin S. Roles of IL-1 and TNF- $\alpha$  in endotoxin-induced

- activation of nitric oxide synthase in cultured rat brain cells. *Amer. J. Physiol.* 270 (*Regulatory, Integrative and Comparative Physiology* 39): R326-R332, 1996.
18. Alvaro, JD, Tatro JB, Quillan MB, Fogliano M, Eisenhard M, Lerner MR, Nestler EJ, Duman RS. Morphine downregulates melanocortin-4 receptor expression in brain regions that mediate opiate addiction. *Mol. Pharmacol.*, 50:583-591, 1996.
  19. Huang Q-H, Entwistle ML, Alvaro JD, Duman RS, Hruby VJ, Tatro JB. Antipyretic role of endogenous melanocortins mediated by central melanocortin receptors during endotoxin-induced fever. *J. Neurosci.*, 17:3343-3351, 1997.
  20. Van der Kraan M, Adan RAH, Entwistle ME, Gispen WH, Burbach JPH, Tatro JB. Expression of melanocortin 5 receptor in secretory epithelia supports a functional role in exocrine and endocrine glands. *Endocrinol* 139:2348-2355, 1998.
  21. Ludwig DS, Mountjoy KG, Tatro JB, Gillette JA, Frederich RC, Flier JS, Maratos-Flier E. Melanin concentrating hormone: a functional melanocortin antagonist in the hypothalamus. *Amer. J. Physiol.* 274(*Endocrinol. Metab.* 37) :E627-E633, 1998.
  22. Leong JM, Wang H, Magoun L, Field JA, Morrissey PE, Robbins D, Tatro JB, Coburn J, Parveen N. Different classes of proteoglycans contribute to the attachment of *Borrelia burgdorferi* to cultured endothelial and brain cells. *Infect. Immun.* 66:994-998, 1998.
  23. Huang Q-H, Hruby VJ, Tatro JB. Systemic  $\alpha$ -MSH suppresses LPS fever via central melanocortin receptors, independently of its suppression of corticosterone and IL-6 release. *Amer. J. Physiol.* 275 (*Regulatory, Integrative and Comparative Physiology* 44): R524-R530, 1998.
  24. Elias CF, Saper CB, Maratos-Flier E, Tritos NA, Lee C, Kelly J, Tatro JB, Ollman MM, Barsh GS, Sakurai T, Yanigisawa M, Elmquist JK. Chemically defined projections linking the mediobasal hypothalamus and the lateral hypothalamic area. *J. Compar. Neurol.* 402:442-459, 1998.
  25. Van der Kraan M, Tatro JB, Entwistle ML, Brakkee JH, Burbach JPH, Adan RAH, Gispen WH. Expression of melanocortin receptors and pro-opiomelanocortin in the rat spinal cord in relation to neurotrophic effects of melanocortins. *Mol. Brain Research* 63:276-286, 1999.
  26. Huang Q-H, Hruby VJ, Tatro JB. Role of central melanocortins in endotoxin-induced anorexia. *Amer. J. Physiol.* 276 (*Regulatory, Integrative and Comparative Physiology* 45): R864-R871, 1999.
  27. Fekete C, Légrádi G, Mihály E, Tatro JB, Rand WM, Emerson CH, Lechan RM.  $\alpha$ -Melanocyte stimulating hormone is contained in nerve terminals innervating thyrotropin-releasing hormone-synthesizing neurons in the hypothalamic paraventricular nucleus and prevents fasting induced suppression of prothyrotropin-releasing hormone gene expression. *J. Neurosci.*, 20:1550-1558, 2000.
  28. Mihály E, Fekete C, Tatro JB, Liposits Z, Stopa EG, Lechan RM. Hypophysiotropic thyrotropin-releasing hormone-synthesizing neurons in the human hypothalamus are innervated by neuropeptide Y(NPY), agouti-related protein (AGRP) and  $\alpha$ -melanocyte stimulating hormone ( $\alpha$ -MSH). *J. Clin. Endocrinol. Metab.*, 85:2596-2603, 2000.
  29. Fekete C, Légrádi G, Mihály E, Tatro JB, Rand WM, Lechan RM.  $\alpha$ -Melanocyte stimulating hormone prevents fasting-induced suppression of corticotropin-releasing hormone gene expression in the rat hypothalamic paraventricular nucleus. *Neurosci. Lett.*, 289:152-156, 2000.
  30. Heisler LK, Cowley MA, Tecott LH, Fan W, Low MJ, Smart JL, Rubinstein M, Tatro JB, Holstege H, Lee CE, Cone RD, Elmquist JK. Fenfluramine activates central melanocortin pathways. *Science*, 297(5581):609-11, 2002.
  31. Huang Q, Tatro JB.  $\alpha$ -MSH suppresses intracerebral TNF- $\alpha$  and IL-1 $\beta$  gene expression following transient cerebral ischemia in mice. *Neurosci. Lett.*, 334(3):186-90, 2002.
  32. Sinha PS, Schiöth HB, Tatro JB. Activation of central melanocortin-4 receptor suppresses lipopolysaccharide-induced fever in rats. *Am. J. Physiol. Regul. Integr. Comp. Physiol.*, 284(6):R1595-R1603, 2003.
  33. Sinha PS, Schiöth HB, Tatro JB. Roles of the melanocortin-4 receptor in antipyretic and thermoregulatory actions of  $\alpha$ -MSH. *Brain Res.*, 1001:150-158, 2004.
  34. Sekhar RV, Goodman JC, Mihaly, E, Tatro JB, Balasubramanyam A. Regulation of body weight by proopiomelanocortin peptides in humans: Lessons from Nelson's syndrome. *Ann. Int. Med.*, 143:238-23, 2005.

35. Yang X, Murthy V, Schultz K, Tatro JB, Fitzgerald KA, Beasley D. Toll-like receptor 3 signaling evokes a proinflammatory and proliferative phenotype in human vascular smooth muscle cells. *Am. J. Physiol, Heart Circ. Physiol.*, [Epub ahead of print], 2006.
36. Schultz K, Murthy M, Tatro JB, Beasley D. Endogenous interleukin-1 $\alpha$  promotes a proliferative and proinflammatory phenotype in human vascular smooth muscle cells. *Am. J. Physiol, Heart Circ. Physiol.*, 292(6):H2927-34, 2007. Epub 2007 Feb 9.
37. Schultz K, Murthy V, Tatro JB, Beasley D. Prolyl hydroxylase 2 deficiency limits proliferation of vascular smooth muscle cells by HIF- $\alpha$ -dependent mechanisms. *Am. J. Physiol, Lung Cell. Mol. Physiol*, in press, 2009. Epub 2009.
38. Higashimori M, Tatro JB, Moore KJ, Mendelsohn ME, Galper JB, Beasley D. Role of toll-like receptor 4 in intimal foam cell accumulation in apolipoprotein E-deficient mice. *Arterioscler Thromb Vasc Biol.* 2011 Jan;31(1):50-7. Epub 2010 Oct 21.
39.  $\gamma\delta$ T cells are prevalent in the proximal aorta and drive nascent atherosclerotic lesion progression and neutrophilia in hypercholesterolemic mice. Vu DM, Tai A, Tatro JB, Karas RH, Huber BT, Beasley D. *PLoS One.* 2014 Oct 14;9(10):e109416. doi: 10.1371/journal.pone.0109416. eCollection PMID: 25313857

### ***BOOK CHAPTERS; INVITED REVIEWS & EDITORIAL REVIEWS***

1. Tatro JB. Melanotropin receptors of the brain. In: *Methods in Neurosciences*, vol. 11 (PM Conn, ed.), Academic Press, New York, 1993, pp. 87-104.
2. Tatro JB. Receptor biology of the melanocortins, a family of neuroimmunomodulatory peptides. *Neuroimmunomodulation* 3:259-284, 1996.
3. Alvaro JD, Tatro JB, Duman RS. Melanocortins and opiate addiction. *Life Sci.* 61:1-9, 1997.
4. Tatro JB. Melanocortin receptor expression and function in the nervous system. In: Cone RD (ed) *The Melanocortin Receptors*. Humana Press, Totowa, New Jersey, 2000, pp. 173-207.
5. Tatro JB. Endogenous antipyretics. *Clin. Infect. Dis.*, 31:S190-S201, 2000.
6. Lechan RM, Tatro JB. Hypothalamic melanocortin signaling in cachexia. *Endocrinol.* 142:3288-3291, 2001 (Editorial).
7. Tatro JB, Sinha PS. The central melanocortin system and fever. *Ann. N.Y. Acad. Sci.*, 994:246-57, 2003.
8. Heisler LK, Cowley MA, Kishi T, Tecott LH, Fan W, Low MJ, Smart JL, Rubinstein M, Tatro JB, Zigman JM, Cone RD, Elmquist JK. Central serotonin and melanocortin pathways regulating energy homeostasis. *Ann. N.Y. Acad. Sci.* 994:169-74, 2003.
9. Tatro JB. Melanocortins defend their territory: Multifaceted neuroprotection in cerebral ischemia. *Endocrinol.*, 147(3):1122-1125, 2006 (Editorial).

### ***DOCTORAL THESIS***

Regulation of glucose metabolism and hormone responsiveness by endogenous growth hormone. The University of Michigan, 1985.

### **NATIONAL & INTERNATIONAL INVITED LECTURES**

- |      |  |
|------|--|
| 1995 | Winter Neuropeptide Conference, Breckenridge, Colo. Symposium lecture.   |
| 1995 | Experimental Biology '95, Atlanta, Ga. Symposium lecture.  |
| 1995 | Endocrine Society, Annual Meeting, Washington, DC. Symposium lecture.  |
| 1997 | College of Physicians & Surgeons, Columbia-Presbyterian Medical Center, Columbia University, New York. Endocrine Division Seminar. |
| 1997 | Trega Biosciences Inc., San Diego, CA. Seminar.  |
| 1998 | Winter Neuropeptide Conference, Breckenridge, Colo. Symposium lecture.   |
| 1998 | Rhode Island Hospital and Dept. of Neurology, Brown University Medical School. Neurology Grand Rounds.                             |
| 1999 | Cold Spring Harbor Laboratory, Conference on Biology of Pigmentation. Symposium lecture.   |



- 1999 Boston Neuroendocrine Seminar Series, Harvard Institute of Medicine, Beth Israel-Deaconess Medical Center
- 1999 Symposium Marking 100 Years of Antipyretic Pharmacotherapy, Parsons Island, Maryland; organized by P. A. Mackowiak. Symposium lecture.
- 2000 Dept. of Infectious Disease, Univ. of Nijmegen, Netherlands. Research seminar.
- 2000 Rudolph Magnus Institute for Neuroscience, University of Utrecht, Netherlands. Research seminar.
- 2000 Winter Neuropeptide Conference, Breckenridge, Colo. Symposium lecture.
- 2000 Dept. of Psychiatry, Harvard Medical School, VA Medical Center-Brockton. Research seminar.
- 2002 5th International Melanocortin Meeting, Sunriver, OR. Session chair, symposium lecture.
- 2008 American Association for the Advancement of Science Annual Meeting, Boston, MA. Invited Speaker, Career Development Workshop, "Career Opportunities in Freelance Editing".