

CURRICULUM VITAE

July, 2013

Ronald M. Lechan, M.D., Ph.D.
Professor of Medicine, Tufts University School of Medicine
Chief, Division of Endocrinology, Diabetes and Metabolism
Tufts Medical Center
Box #268
800 Washington Street
Boston, MA 02111
Tel: (617) 636-5689 office; 636-8514 laboratory
FAX: (617) 636-4719

EDUCATION

1972 B.A. Brandeis University (Magna Cum Laude, Honors in Biology)
1976 M.D. University of Vermont College of Medicine
1984 Ph.D. Tufts University Sackler School of Graduate Biomedical Sciences
Department of Anatomy and Cellular Biology

POSTDOCTORAL TRAINING

INTERNSHIP AND RESIDENCY

1976 Internal Medicine
Beth Israel Hospital
Boston, Massachusetts

FELLOWSHIP

1978 Endocrinology and Metabolism
New England Medical Center
Boston, Massachusetts

LICENSURE AND CERTIFICATIONS

1976 Massachusetts Board of Registration in Medicine
1977 National Board of Medical Examiners
1979 American Board of Internal Medicine
1982 Subspecialty Board in Endocrinology and Metabolism

ACADEMIC APPOINTMENTS

1981 - 1982 Instructor in Medicine
Tufts University School of Medicine
Boston, Massachusetts

1982 - 1987 Assistant Professor of Medicine
 Tufts University School of Medicine
 Boston, Massachusetts

1987 - Associate Professor of Medicine
 Tufts University School of Medicine
 Boston, Massachusetts

1993 - Professor of Medicine
 Tufts University School of Medicine
 Boston, Massachusetts

HOSPITAL APPOINTMENTS

1981 Assistant Physician
 New England Medical Center Hospitals
 Boston, Massachusetts

1987 - Physician
 Tufts-New England Medical Center
 Boston, Massachusetts

1996- Program Director and Acting Chief
 Division of Endocrinology, Diabetes, and Metabolism
 Tufts Medical Center, Boston, Massachusetts

2006 Chief, Division of Endocrinology, Diabetes and
 Metabolism
 Tufts Medical Center
 Boston, Massachusetts

AWARDS AND HONORS

1976 Alpha Omega Alpha Honorary Medical Society

1979 NIAMDA Traineeship Award

1981 NIAMDD New Investigator Award

1991 Fellowship, American College of Physicians

1991 Elected Member, American Society for Clinical Investigation

1991 Van Meter/Forrest Award, American Thyroid Association

1996 Fellow, Italian Academy of Sciences

2001 Lecturer, The Endocrine Brain Symposium, Szeged, Hungary 1/26/01
 McGill/Knoll Lectureship 4/4/01
 Visiting Professor, McGill University 4/5/01

2001 Fellow, Society of Medicine and Natural Science, The University of
 Parma, Italy

2002 Medallion of the University of Catania, Sicily 5/9/02
 Medallion of the University of Palermo, Sicily 5/10/02

- 2005 15th Annual Sidney H. Ingham Memorial Lecturer, Beth Israel Deaconess Hospital, 4/08/05
Invited Participant, 24th International Summer School of Brain Research, Amsterdam, The Netherlands, Aug 29 – Sept 2, 2005
Cited as one of Boston’s Best Doctors in the Boston Herald
- 2006 Award for Distinguished Academic Achievement, University of Vermont College of Medicine
- 2007 Twenty-Five Year Service Award, Tufts University School of Medicine
Best Doctors in America 2007-2008 Database
Castle Connolly America’s Top Doctors
- 2008 Boston Magazine 2008 list of Top Doctors
Castle Connolly America’s Top Doctors
- 2009 Elected as a Corresponding Member in the Class of Physical Sciences to the Academy of Sciences of Bologna
Gold Medal of the Academy of Sciences of Bologna for recognition of scientific excellence
Recognition by Faculty 1000 Biology for having one of the most interesting papers published in the biological sciences (Endocrinology May 2009).
Best Doctors in America 2009-2010 Database
Boston Magazine 2009 list of Top Doctors
2009 Patients’ Choice Award
- 2010 American Registry Top Doctor Award;
2010 Patients’ Choice Award
Boston Magazine 2010 list of Top Doctors
- 2011 Selected by the International Association of Healthcare Professionals (IAHCP) as “Top Endocrinologist in Boston, MA” and as “Boston Super Doctors by Key Professional Media, Inc.
- Selected one of “America’s Top Doctors” by Castle Connolly Medical LTD
Patients’ Choice Award
Boston Magazine 2011 list of Top Doctors
- 2012 Selected as Top Doctor in Natick, MA by International Association of Internists (IAI)

Selected one of "America's Top Doctors" by Castle Connolly

Medical

LTD

2013 Boston Magazine 2012 list of Top Doctors
Named to 2013 Boston Super Doctors list
Top 10 Endocrinologists Award from American Registry
Top Doctor Award from Castle Connolly
Recognition by Faculty 1000 Biology for having one of the most interesting papers published in the biological sciences (The Journal of Clinical Investigation, 2013).

COMMITTEES

HOSPITAL AND MEDICAL SCHOOL

1984 - Director, Endocrinology Seminar Series
1988 - Member, Animal Research Committee, Tufts University School of Medicine and New England Medical Center Hospitals
1990,1991, Ad Hoc Member, Promotions Committee
1992, 1995 Tufts University School of Medicine and Tufts-New England Medical Center
1996 - Member of the Graduate Medical Education Committee
2005-2007 Member, GRASP Center Executive Committee
Member, GCRC Genetics and Genomics Task Force
2005-2008 Member, PhD Thesis Committee, Thaddeus Unger
2005- 2009 Member, PhD Thesis Committee Sarah Teillon
2007-2009 Member, Neurology Search Committee
2008 GME Internal Review Committee, Division of Nephrology
2009 Ad Hoc Member, Basic Science Faculty Appointment, Promotion and Tenure Committee, Tufts University School of Medicine
2010 Ad Hoc Member, Promotion and Tenure Committee, Tufts University School of Medicine

REGIONAL

1986 - 1987 Chairman, Committee to Place Seatbelts on School Buses in Natick, MA
1990 Ph.D. Thesis Committee for Maurene Shamgochian
Department of Physiology, U. Mass Medical School, Worcester, MA
Ad Hoc Reviewer, Institutional Grants, U Mass Medical School

- 1999 Ph.D. Thesis Committee, Susan Weninger, Harvard Medical School, Boston, MA
- 1999- Advisory Board, NIH Program Project in Obesity, Dr. Jeffrey Flier, P.I., Beth Israel Hospital, Boston, MA
- 2011 PhD. Thesis Committee, Nathan A. Billings, Harvard Medical School, "Thyroid Hormone Signaling during Chick Retinal Development"

NATIONAL

- 1984 - NIH Ad Hoc Reviewer and Special Review Committee
- 1985 NIH Site Visit Team
- 1988 - NSF Ad Hoc Reviewer
- Ph.D. Thesis Committee for Peter Van den Bergh, Catholic University of Louvain, Brussels, Belgium
- 1997 NIH Biological and Physiological Sciences Special Emphasis Panel
- 2000 Chairperson, Center for Scientific Review Special Emphasis Panel, NIH
- 2001 Reviewer for North West Cancer Research Fund Scientific Committee, University of Liverpool, Liverpool, England
- 2005 NIH Reproductive Endocrinology Special Emphasis Panel Member
- 2006-2008 Ph.D. Thesis Committee and Co-Advisor, Monica Bodria, University of Parma, Italy
- 2008 Co-Chair, First Annual Gerald J. Friedman Fellows Symposium, New York, NY
- 2012 Co-Chair, Gerald J. Friedman Fellows Symposium, NY

TEACHING RESPONSIBILITIES

- 1981 - New England Medical Center, Housestaff Conferences
- 1981 - Tufts University School of Medicine, Endocrine Pathophysiology
- 1983 - 1988 Tufts University, Community Health 103, Endocrinology
- 1985 - 1990 Tufts University School of Dental Medicine, Endocrinology
- 1988 Harvard School of Public Health, Pharmacology 212
Hypothalamus: Anatomy, biosynthesis and processing of regulatory neuropeptides
- 1989 - Tufts University School of Medicine, Neuroscience 202, Hypothalamic Anatomy and Limbic System

1991 - University of Chieti Medical School, Chieti, Italy; University of Trieste Medical School, Trieste, Italy; University of Bologna Medical School, Bologna, Italy, University of Parma Medical School, Parma, Italy, Hypothalamic Anatomy

1994 -
2007 Preclinical Selective Program Tufts University School of Medicine

M

mentor for Runa Achuria, Building Diversity in Biomedical Diversity in Biomedical Sciences Program, Tufts University, First Prize Recipient in Poster Competition of BDBS Research Symposium

2009

M

mentor for Maribel Vazquez, Building Diversity in Biomedical Sciences Program, Tufts University; First Prize Recipient in Poster Competition of BDBS Research Symposium

2013

E

external Expert, PhD Program in Molecular Medicine, University of Parma School of Medicine, Parma, Italy

PROFESSIONAL SOCIETIES

1976 Century Club of the University of Vermont College of Medicine

1981 American Association for the Advancement of Science

1982 Massachusetts Medical Society

1983 The Endocrine Society

1983 Society for Neuroscience

1983 International Brain Research Organization

1987 New York Academy of Science

1991 American Society for Clinical Investigation

1992 The American Pituitary Association

2013 Pheochromocytoma Research Support Organization

(PRESSOR)

COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES

1991 Program Committee, The Endocrine Society

1992 Founding Member, The American Pituitary Association

RESEARCH SUPPORT

Present

- a. Dr. Gerald J, and Dorothy R. Friedman New York Foundation for Medical Research
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
Interim Support to Study Hypothalamic Neuroendocrine Regulation
- b. Lilly Pharmaceutical, Inc.
HypoCCS Trial
1998 - 2013
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
- c. Tercica, Inc.
Somatuline Depot Injection for Actomegaly(SODA) Study
2009 -
Principal Investigator: Ronald M. Lechan, M.D., Ph.D
- d. Dr. Gerald J.and Dorothy R. Friedman New York Foundation for Medical Research
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
Support for Fellowship training in Endocrinology, Diabetes and Metabolism
- e. NIH, TCGA Trial
2013 -
Principal Investigators: Ronald M. Lechan, M.D., PhD., Arthur Tischler, M.D.
Study of the Pathophysiology and Molecular Biology of Pheochromocytoma

Past

- a. Role of ProTRH-derived Peptides in the Midbrain PAG
NIDA RO1 DK10521
4/1/97 - 3/31/01
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
- b. D2 Tanycytes in the Regulation of the Hypothalamic-Pituitary-Thyroid Axis
NIDDK R21 DK57727
6/1/00 - 5/30/03

Principal Investigator: Ronald M. Lechan, M.D., Ph.D.

- c. Melanocortin Signaling in Anorexia
Tufts-New England Medical Center Research Fund
6/01/02 – 5/31/03
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.

- d. CART and the Hypothalamic-Pituitary-Thyroid Axis
TW01494-01
1/01/01 - 1/31/05
Fogarty International Collaboration Award to Dr. Csaba Fekete
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.

- e. TRH and Energy Homeostasis
NIDDK R21 DK 70600
6/01/05 – 5/31/08
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.

- f. Russo Family Charitable Foundation Trust Grant
Identification of the DPP2 Substrate in the VMN of the Hypothalamus
that Controls Glucose Metabolism
4/01/10-3/31/11
Principal Investigators: Brigitte Huber, Ph.D., and Ronald M. Lechan,
M.D., Ph.D.

- g. Role of Oleyethanolamine in the Regulation of the HPT Axis
1R03 TW007834
1/01/09 - 1/31/12
Fogarty International Collaboration Award to Dr. Csaba Fekete
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.

- h. Tanycytes and Nonthyroidal Illness
R21 DK078998
05/10/09 – 04/30/12
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.

- i. TRH Regulation/Biosynthesis in the Paraventricular Nucleus
NIDDK 5 R01 DK 37021
2/1/86 - 9/30/12
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.

Pending

- a. TRH and Energy Homeostasis
National Institutes of Health
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
- b. Functional Importance of Type 2 Deiodinase (D2) in Hypothalamic Tanycytes
National Institutes of Health
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
- c. Tanycytes as Neural Progenitors for POMC Neurons in the Postnatal Hypothalamus
National Institutes of Health
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
- d. Tanycytes as Neural Progenitors for POMC Neurons in the Postnatal Hypothalamus
National Institutes of Health
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
- e. Neurobiology of Glutamatergic and GABAergic Neurons in the Hypothalamic Arcuate Nucleus
National Institutes of Health
Principal Investigator: Ronald M. Lechan, M.D., Ph.D.

RESEARCH ACCOMPLISHMENTS

- identified origin of neurons giving rise to all of the hypothalamic releasing and inhibiting factors involved in anterior pituitary regulation (elucidation of the hypothalamic tuberoinfundibular system)
- brought attention to the importance of the hypothalamic paraventricular nucleus (PVN) in neuroendocrine regulation
- identified the origin and axonal trajectory to the median eminence of thyrotropin-releasing hormone (TRH) neurons involved in anterior pituitary TSH regulation

- isolated the cDNA for TRH, deduced the sequence of mammalian preproTRH, and demonstrated that proTRH contains other potentially important biologically active peptides.
- demonstrated the presence of TRH in the spinal cord and its importance in muscle recovery following denervation
- demonstrated the activating effects of melanocortin signaling on hypophysiotropic TRH neurons in the hypothalamic paraventricular nucleus and potent inhibitory effects of NPY
- demonstrated importance of CREB phosphorylation in melanocortin signaling to hypophysiotropic TRH neurons
- elucidated central mechanisms responsible for the nonthyroidal illness syndrome associated with fasting including roles of leptin, neuropeptide Y, α -MSH, AGRP and CART.
- demonstrated presence of type 2 iodothyronine deiodinase in tanycytes lining the third ventricle, their regulation by endotoxin and proposed their importance in regulation hypothalamic levels of thyroid hormone
- proposed a new mechanism for feedback regulation of the hypothalamic-pituitary-thyroid axis *via* thyroid hormone-induced upregulation of pyroglutamyl peptidase II in tanycytes lining the third ventricle and degradation of TRH from TRH-containing axon terminals.
- identified potential satiety regions in the hypothalamus including the ventral parvocellular subdivision of the hypothalamic paraventricular nucleus
- demonstrated importance of CART as a prolactin inhibitory factor
- provided evidence that isolated ACTH deficiency is secondary to autoimmune recognition of corticotroph antigens
- recognized association between IL-2 and IF- α therapy and autoimmune thyroiditis
- demonstrated efficacy of temozolomide in the treatment of invasive, dopamine-agonist resistant prolactinoma

EDITORIAL BOARDS

Endocrinology
 Endocrine Pathology
 Acta BioMedica 2007

Ad Hoc Reviewer for:

Journal of Clinical Endocrinology and Metabolism,
Neuroendocrinology,
Brain Research,
Journal of Histochemistry and Cytochemistry,
Journal of Comparative Neurology
Life Science,
Neuroscience and Behavioral Reviews,
New England Journal of Medicine
Diabetes,
Journal of Neurochemistry,
Peptides,
Thyroid,
Endocrine Reviews
Biological Psychiatry

PREVIOUS TRAINEES

Trainees	Current Position
Malcolm Low, MD, PhD	Professor of Molecular and Integrative Physiology and Internal Medicine, University of Michigan Medical School
Eric Dyess, MD	Private Practice, University of Mississippi Medical Center, Jackson, Mississippi
Hyman Schipper, MD, PhD	Professor of Neurology, Center for Neurotranslational Research and Bloomfield Centre for Research in Ageing, McGill University, Montreal, Quebec
Thomas Segerson, MD	Vice President, Medical and Scientific Affairs, Bayer Inc.
Naoto Minamitani, MD	Executive Director, Minamitani Clinics and Research Center, Osaka, Japan
Peter Van den Bergh, MD	Professor of Neurology Director, Neuromuscular Reference Center

Catholic University of Louvain
President, Belgian Neurological Society
Brussels, Belgium

Richard Siegel, MD

Associate Professor of Medicine, Tufts University
School of Medicine, Tufts-New England Medical
Center, Boston, MA

Gabor Legradi, PhD

Assistant Professor, Department of Anatomy,
University of South Florida, Tampa, FL

Csaba Fekete, MD, PhD

Professor, Institute of Experimental Medicine,
Hungarian Academy of Science, Department of
Endocrine Neurobiology, Budapest Hungary

Emese Mihaly, MD, PhD

Clinical Instructor, Semelweiss University,
Budapest, Hungary

Sumathi Srivasta, MD

Assistant Professor of Medicine, Emory University
School of Medicine, Atlanta, GA

Linda Margiloff, MD

Clinical Instructor, Department of Medicine,
Tufts-New England Medical Center, Boston, MA
Boston, MA

Sorin Herscovici, MD

Saints Medical Center, Lowell, MA

Anatassios Pittas, MD

Associate Professor of Medicine, Tufts University
School of Medicine, Tufts Medical Center, Boston,
MA

Alejandra Pro-Risquez, MD

Assistant Professor of Medicine, Tufts University
School of Medicine, St. Elizabeth's Hospital,
Brighton, MA

Sunita Schurgin, MD

Private Practice, Mystic Medical, Medford, MA

Sumit Sarkar, PhD

Research Associate, Department of
Pharmacology and Toxicology, Indiana University
School of Medicine, Indianapolis, IN

Radhika Hariharan, MD	Assistant Professor, Tufts Medical Center, Boston, MA
Nandini Joseph, MD	Private Practice, Palo Alto Medical Foundation
Florence Solages, MD	Director, Obesity, Diabetes and Metabolism Center of S. Florida, Plantation, FL
Rula Goussous, MD	Private Practice, King Hussein Cancer Center, Amman, Jordan
Chortip Nartshupa, MD	Private Practice, Bumrungrad International Hospital, Bangkok, Thailand
Colleen Digman, MD	Private Practice, Northshore Medical Group, Northshore Medical Center
Arpita Patel, MD	Private Practice, Bergin County Consultants, Englewood, NJ
Lisa Neff, MD	Assistant Professor, Northwestern School of Medicine, Chicago, IL
Renee Amori, MD	Assistant Professor, UMDNJ-Robert Wood Johnson
Lisa Ceglia, MD	Assistant Professor, Tufts Medical Center
Michelle Weil, MD	Assistant Professor, Massachusetts General Hospital
Duha Shaheen, MD	Dubai Health Authority, Dubai, UAE
Noah Lubowsky, MD	Renal-Endocrine Associates, PC, Pittsburgh, PA
Edith Sanchez-Jaramillo, PhD	Assistant Professor, University of Mexico

Praful Singru, PhD	Assistant Professor, School of Biological Sciences, National Institute of Science Education and Research, Orissa, India
Nuha El Sayed, MD	Assistant Professor, Joslin Diabetes Center
Eliana Schenk, MD	Private Practice, Lakeside Medical Associates, Burbank, CA
Nicole V. Tilluckdharry, MD	Private Practice, Trinidad; Chairperson Trinidad & Tobago Medical Association and Ministry of Health
Wen-Yee Tsai, MD	Associated Internal Medicine Medical Group, Inc., Oakland, CA
Gabor Wittmann, PhD	Postdoctoral Fellow, Tufts Medical Center
Joanna Mitri, MD	Private Practice, Prima-Care, Fall River, MA
Radhika Phadke, MD	Private Practice
Bindiya Magoon, MD	Private Practice
Esther Lee, MD	Staff Member, Jordan Hospital, Plymouth, MA
Saud Alzahrani, MD	Postdoctoral Fellow, Tufts Medical Center
Rajaa Nahra, MD	Postdoctoral Fellow, Tufts Medical Center
Naweed Alzaman, MD	Postdoctoral Fellow, Tufts Medical Center
Vorawan Ummaritchot, MD	Postdoctoral Fellow, Tufts Medical Center
Anthony Liberatore, MD	Postdoctoral Fellow, Tufts Medical Center
Anam Akmal, MD	Postdoctoral Fellow, Tufts Medical Center

BIBLIOGRAPHY

Refereed Papers:

1. Lechan RM, Alpert LC, Jackson IMD: Synthesis of Luteinizing Hormone Releasing Factor and Thyrotropin-Releasing Factor in Glutamate Lesioned Mice. *Nature* 264:463-465, 1976.
2. Lechan RM, Nestler JL, Jacobson S, Reichlin S: The Hypothalamic "Tuberoinfundibular" System of the Rat as Demonstrated by Horseradish Peroxidase (HRP) Microiontophoresis. *Brain Res* 195:13-27, 1980.
3. Lechan RM, Nestler JL, Molitch ME: Immunohistochemical Identification of a Novel Substance with Human Growth Hormone-Like Immunoreactivity in Rat Brain. *Endocrinology* 109:1950, 1981.
4. Lechan RM, Nestler JL, Jacobson S: Immunohistochemical Localization of Retrogradely and Anterogradely Transported Wheat Germ Agglutinin (WGA) Within the Central Nervous System of the Rat: Application to Immunostaining of a Second Antigen Within the Same Neuron. *J Histochem Cytochem* 29:1255, 1981.
5. Lechan RM, Nestler JL, Jacobson S: The Tuberoinfundibular System of the Rat as Demonstrated by Immunohistochemical Localization of Retrogradely Transported Wheat Germ Agglutinin (WGA) from the Median Eminence. *Brain Res* 245:1-15, 1982.
6. Lechan RM, Jackson IMD: Immunohistochemical Localization of Thyrotropin- Releasing Hormone in the Rat Hypothalamus and Pituitary. *Endocrinology* 111:55, 1982.
7. King JS, Lechan RM, Kugel G, Anthony ELP: Acrolein: A Fixative for Immunocytochemical Localization of Peptides in the Central Nervous System. *J Histochem and Cytochem* 31:62-68, 1983.
8. Lechan RM, King JC, Molitch ME, Alberg J: Immunohistochemical Localization of Human Growth Hormone-Like Material in the Median Eminence of the Rat: Light and Electron Microscopic Observations. *Neuroscience Letters* 30:229-234, 1982.
9. Lechan RM, Molitch ME, Jackson IMD: Distribution of Immunoreactive Human Growth Hormone-Like Material and Thyrotropin-Releasing Hormone in the Rat Central Nervous System: Evidence for Their Coexistence in the Same Neurons. *Endocrinology* 112:877, 1983.
10. Lechan RM, Goodman RH, Rosenblatt M, Reichlin S, Habener JF: Prosomatostatin-Specific Antigen in Rat Brain: Localization by Immunocytochemical Staining with an Antiserum to a Synthetic

- Sequence of Preprosomatostatin. *Proc Natl Acad Sci USA* 80:2780-2784, 1983.
11. Kapcala LP, Lechan RM, Reichlin S: Origin of Immunoreactive ACTH in Brain Sites Outside the Ventral Hypothalamus. *Neuroendocrinology* 37:440-445, 1983.
 12. Lechan RM, Lin HD, Ling N, Jackson IMD, Jacobson S, Reichlin S: Distribution of Immunoreactive Growth Hormone Releasing Factor (1-44) NH₂ in the Tuberoinfundibular System of the Rhesus Monkey. *Brain Res* 309:55-61, 1984.
 13. Lechan RM, Snapper SB, Jacobson S, Jackson IMD: The Distribution of Thyrotropin-Releasing Hormone (TRH) in the Rhesus Monkey Spinal Cord. *Peptides, Suppl 1*, 5:185-194, 1984.
 14. Lechan RM, Snapper SB, Jackson IMD: Evidence that Spinal Cord Thyrotropin-Releasing Hormone is Independent of the Paraventricular Nucleus. *Neurosci Lett* 43:61-65, 1983.
 15. Lamberton P, Lechan RM, Jackson IMD: Ontogeny of Thyrotropin-Releasing Hormone and Histidyl Proline Diketopiperazine in the Rat Central Nervous System and Pancreas. *Endocrinology* 115:2400-2405, 1984.
 16. Pan JX, Lechan RM, Lin HD, Jackson IMD: Immunoreactive Neuron Pathways of Growth Hormone-Releasing Hormone (GRH) in the Brain and Pituitary of the Teleost *Gadus Morhua*. *Cell Tiss Res* 241:487-493, 1985.
 17. Lechan RM, Jackson IMD: Thyrotropin Releasing Hormone but not Histidyl-Proline Diketopiperazine is Depleted from Rat Spinal Cord Following 5,7-Dihydroxytryptamine Treatment. *Brain Res* 326:152-115, 1985.
 18. Pan JX, Lechan RM, Lin HG, Sohn J, Reichlin S, Jackson IMD: Multiple Forms of Human Pancreatic Growth Hormone Releasing Factor-Like Immunoreactivity in Teleost Brain and Pituitary. *Endocrinology* 116:1663-1665, 1985.
 19. Low MJ, Lechan RM, Hammer RF, Brinster RL, Habener JF, Mandel G, Goodman RH: Gonadotroph-Specific Expression of Metallothionein Fusion Genes in Pituitaries of Transgenic Mice. *Science* 231:1002-1004, 1986.
 20. Jackson IMD, Wu P, Lechan RM. Immunohistochemical Localization in the Rat Brain of the Precursor for Thyrotropin-Releasing Hormone. *Science* 229:1097, 1985.

21. Lechan RM, Wu P, Jackson IMD, Wolf H, Cooperman S, Mandel G, Goodman RH. Thyrotropin-Releasing Hormone Precursor: Characterization in Rat Brain. *Science* 231:159-161, 1986.
22. Lechan RM, Wu P, Jackson IMD: Immunolocalization of the Thyrotropin-Releasing Hormone Prohormone in the Rat Central Nervous System. *Endocrinology* 119:1210-1216, 1986.
23. Jackson IMD, Adelman LS, Munsat TL, Forte S, Lechan RM: Amyotrophic Lateral Sclerosis: Thyrotropin-Releasing Hormone and Histidyl Proline Diketopiperazine in the Spinal Cord and Cerebrospinal Fluid. *Neurology* 36:1218-1223, 1986.
24. Hoefler H, Childers H, Montminy MR, Lechan RM, Goodman RH, Wolfe HJ: *In situ* Hybridization Methods for the Detection of Somatostatin mRNA in Tissue Sections Using Antisense RNA Probes. *Histochemical Journal* 18:597-604, 1986.
25. Hoefler H, Childers H, Montminy MR, Goodman RH, Lechan RM, DeLellis RA, Tisher AS, Wolfe HJ: Localization of Somatostatin mRNA in the Gut, Pancreas and Thyroid Gland of the Rat Using Anti-Sense RNA Probes for *In Situ* Hybridization. *Acta Histochem Suppl* 34:101-105, 1987.
26. Van den Bergh P, Kelly JJ, Adelman L, Munsat TL, Jackson IMD, Lechan RM: Effect of Spinal Cord TRH Deficiency on Lower Motoneuron Function in the Rat. *Muscle and Nerve* 10:397-405, 1987.
27. Minamitani N, Minamitani T, Lechan RM, Bollinger-Gruber J, Reichlin S: Paraventricular Nucleus Mediates Prolactin Secretory Responses to Restraint Stress, Ether Stress, and 5-Hydroxy-L-Tryptophan Injection in the Rat. *Endocrinology* 120:860-867, 1987.
28. Wu P, Lechan RM, Jackson IMD. Identification and Characterization of Thyrotropin Releasing Hormone Precursor Peptides in Rat Brain. *Endocrinology* 121:108, 1987.
29. Segerson TP, Hoefler H, Childers H, Wolfe HJ, Wu P, Jackson IMD, Lechan RM: Localization of Thyrotropin-Releasing Hormone Prohormone Messenger Ribonucleic Acid in Rat Brain by *In Situ* Hybridization. *Endocrinology* 121:98-107, 1987.
30. Segerson TP, Kauer J, Wolfe HJ, Mobtaker H, Wu P, Jackson IMD, Lechan RM: Thyroid Hormone Regulates TRH Biosynthesis in the Paraventricular Nucleus of the Rat Hypothalamus. *Science* 238:78-80, 1987.
31. Lechan RM, Wu P, Jackson IMD: Immunocytochemical Distribution in Rat Brain of Putative Peptides Derived from Thyrotropin-Releasing Hormone Prohormone. *Endocrinology* 121:1879-1891, 1987.
32. Liposits Z, Paull WK, Wu P, Jackson IMD, Lechan RM: Hypophysiotropic Thyrotropin Releasing Hormone (TRH) Synthesizing Neurons:

- Ultrastructure, Adrenergic Innervation and Putative Transmitter Action. Histochemistry 88:1-10, 1987.
33. Van den Bergh P, Wu P, Jackson IMD, Lechan RM: Neurons Containing a N-Terminal Sequence of the TRH-Prohormone (preproTRH53-74) are Present in a Unique Location of the Midbrain Periaqueductal Gray of the Rat. Brain Res 461:53-63, 1988.
 34. Van den Bergh P, Kelly JJ, Jr, Soule N, Munsat TL, Jackson IMD, Lechan RM: Spinal Cord TRH Deficiency is Associated with Incomplete Recovery of Denervated Muscle in the Rat. Neurology 38:452-458, 1988.
 35. Stoff JS, Silva P, Lechan R, Solomon R, Epstein FH: Neural Control of Shark Rectal Gland. Am. J. Physiol. 255:R112-216 1988.
 36. Dyess EM, Segerson TP, Liposits Z, Paull WK, Kaplan MM, Jackson IMD, Lechan RM: Triiodothyronine Exerts Direct Cell-Specific Regulation of Thyrotropin-Releasing Hormone Gene Expression in the Hypothalamic Paraventricular Nucleus. Endocrinology 123:2291-2297, 1988.
 37. Lam KSL, Lechan RM, Minamitani N, Segerson TP, Reichlin S: Vasoactive Intestinal Peptide in the Anterior Pituitary is Increased in Hypothyroidism. Endocrinology 124:1077-1084, 1989.
 38. Segerson TP, Lam KSL, Cacicedo L, Minamitani N, Fink S, Lechan RM, Reichlin S: Thyroid Hormone Regulates Vasoactive Intestinal Peptide (VIP) mRNA Levels in the Rat Anterior Pituitary Gland. Endocrinology 125:2221-2223, 1989.
 39. Schipper HM, Lechan RM, Reichlin S: Glial Peroxidase-Like Activity in the Hypothalamic Arcuate Nucleus: Effects of Estradiol Valerate-induced Persistent Estrus. Brain Res 507:200-207, 1990.
 40. Toni R, Lechan RM: 1-Naphthol-Pyronin B as a Novel Substrate for Silver Intensification: Application to Light and Electron Microscopic Immunocytochemistry of Neuroendocrine Systems. J Histochem and Cytochem 38:1209-1214, 1990
 41. Toni R, Jackson IMD, Lechan RM: Neuropeptide Y Immunoreactive Innervation of Thyrotropin-Releasing Hormone Synthesizing Neurons in the Rat Hypothalamic Paraventricular Nucleus. Endocrinology 26:2444-2453, 1990.
 42. Lam KSL, Srivastava G, Lechan RM, Lee S, Reichlin S: Estrogen Regulates the Gene Expression of Vasoactive Intestinal Peptide in the Anterior Pituitary. Neuroendocrinology 52:417-421, 1990.
 43. Schipper HM, Scarborough DE, Lechan RM, Reichlin S: Gomori-Positive Astrocytes in Primary Culture: Effects of *In Vitro* Age and Cysteamine Exposure. Dev. Brain Res 54:71-79, 1990.

44. Sauter NP, Toni R, McLaughlin CD, Dyess EM, Kritzman J, Lechan RM: Isolated Adrenocorticotropin Deficiency Associated with an Antibody to a Corticotroph Antigen that is not Adrenocorticotropin or other Pro-opiomelanocortin-derived Peptides. *J Clin Endo Metab* 70:1391-1397, 1990.
45. Lechan RM, Toni R, Clark BD, Cannon JG, Shaw AR, Dinarello CA, Reichlin S: Immunoreactive Interleukin-1 β Localization in the Rat Forebrain. *Brain Res* 514:135-140,1990.
46. Toni R, Jackson IMD, Lechan RM: Thyrotropin-Releasing-Hormone-Immunoreactive Innervation of Thyrotropin-Releasing-Hormone-Tuberoinfundibular Neurons in Rat Hypothalamus: Anatomical Basis to Suggest Ultrashort Feedback Regulation. *Neuroendocrinology* 52:422-428, 1990.
47. Koenig JI, Snow K, Clark BD, Toni R, Canon JG, Shaw AR, Dinarello CA, Reichlin S, Lee SL, Lechan RM: Intrinsic Pituitary Interleukin-1 β is Induced by Bacterial Lipopolysaccharide. *Endocrinology* 126:3053-3058, 1990.
48. Aratan-Spire S, Scharfmann R, Lechan RM, Tashjian Jr, AH: ProTRH Gene Expression by Fetal Pancreatic Islets in Culture. *Biochem. Biophys. Res. Communications* 168:952-958, 1990.
49. Van den Bergh P, Octave JN, Lechan RM: Muscle Denervation Increases TRH Biosynthesis in the Rat Medullary Raphe. *Brain Res.* 566:219, 1991.
50. Sauter NP, Atkins MB, Mier JW, Lechan RM: Transient Thyrotoxicosis and Persistent Hypothyroidism Due to Acute Autoimmune Thyroiditis Following Interleukin - 2 and Interferon-alpha Therapy for Metastatic Carcinoma: A case report. *Am. J. Med.* 82:441,1992.
51. Cook CB, Kakuscka I, Lechan RM, Koenig RJ: Expression of Thyroid Hormone Receptor β 2 in Rat Hypothalamus. *Endocrinology* 130:1077, 1992.
52. Kakuscka I, Rand W, Lechan RM: TRH Gene Expression in the Hypothalamic Paraventricular Nucleus is Dependent Upon Feedback Regulation by Triiodothyronine (T3) and L-thyroxine (T4). *Endocrinology*130:2845-2850, 1992.
53. Toni R, Kakuscka I, Mosca S, Marrowa P, Lechan RM: Hypothyroidism Increases Vasoactive Intestinal Polypeptide (VIP) Immunoreactivity and Gene Expression in the Rat Hypothalamic Paraventricular Nucleus, *Endocrinology* 131:976, 1992
54. Kakuscka I, Qi Y, Romero L, Clark BD, Lechan RM: Endotoxin-induced CRH Gene Expression in the Hypothalamic Paraventricular Nucleus is Mediated Centrally by Interleukin-1, *Endocrinology*, 133: 815-821, 1993.

55. Romero LI, Schettini G, Lechan RM, Dinarello CA, Reichlin S: Bacterial Lipopolysaccharide Induction of IL-6 in Rat Telencephalic Cells is Mediated in Part by Il-1, *Neuroendocrinology* 57:892, 1993.
56. Kakucska I, Qi Y, Clark BD, Lechan RM, Endotoxin-Induced Corticotropin-Releasing Hormone Gene Expression in the Hypothalamic Paraventricular Nucleus is Mediated Centrally by Interleukin-1, *Endocrinology* 133:815, 1993.
57. Lechan, RM, Qi Y, Berrodin TJ, Davis K, Schwartz H, Strait KA, Oppenheimer JA, Lazar MA, Immunocytochemical Delineation of Thyroid Hormone Receptor b2-like Immunoreactivity in the Rat Central Nervous System, *Endocrinology* 132:2461-2469, 1993.
58. Kakucska I, Romero LI, Clark BD, Rondeel JMM, Qi Y, Alex S, Emerson CH, Lechan RM; Suppression of Thyrotropin-Releasing Hormone Gene Expression by Interleukin-1-Beta in the Rat: Implications for Nonthyroidal Illness. *Neuroendocrinology*, 59:1293, 1994
59. Lechan RM, Qi Y, Jackson IMD, Mahdavi V, Identification of Thyroid Hormone Receptor Isoforms in Thyrotropin-Releasing Hormone (TRH) Neurons of the Hypothalamic Paraventricular Nucleus, *Endocrinology*, 135:92-100, 1994.
60. Toni R, Mosca S, Ruggeri F, Valmori A, Toni G, Lechan RM, Vezzadini P, Hypothyroidism Increases Vasoactive Intestinal Polypeptide Immunoreactivity in the Hypothalamic Supraoptic and Accessory Magnocellular Nuclei, Subfornical Organ and Functionally-Related Preoptic and Limbic Regions of the Male Rat, *Brain Res.*682: 101-115, 1995.
61. Sugawara A, Yen PM, Qi Y, Lechan RM, Chin WW, Isoform-Specific Retinoid X Receptor (RXR) Antibodies Detect Differential Expression of RXR Proteins in the Pituitary Gland., *Endocrinology* 136: 1766-1774, 1995.
62. Kakucska I, Qi Y, Lechan RM, Changes in Adrenal Status Affect Hypothalamic TRH Gene Expression in Parallel with CRH, *Endocrinology* 136: 2795-2802, 1995.
63. Pauker SG, Kopelman RI, Lechan RM, Diverted by the Chief Complaint, *New England J Med* 333: 45-48, 1995
64. Romero L, Kakucska I, Lechan RM, Reichlin S, Interleukin-6 is Secreted From the Brain After Intracerebroventricular Injection of Il-1 in the Rat, *Am. J. Physiology*, 270:R518-524, 1996.
65. Legradi G, Rand WM, Hitz S, Nillni EA, Jackson IMD, Lechan RM, Opiate withdrawal increases proTRH gene expression in the ventrolateral column of the midbrain periaqueductal gray, *Brain Res* 729: 10-19, 1996.

66. Chattopadhyay N, Legradi G, Bai M, Vassilev PM, Brown E, Lechan RM, Calcium-sensing receptor in the rat hippocampus: a developmental study, *Dev. Brain Res* 100: 13-21, 1997.
67. Brady S, Lechan RM, Schwaitzberg SD, Dayal Y, Ziar J, Tischler AS, Composite pheochromocytoma/ganglioneuroma of the adrenal gland associated with multiple endocrine neoplasia 2A, *Am J Sug. Path* 21: 102-108, 1997.
68. Legradi G, Emerson CH, Ahima RS, Flier JS, Lechan RM, Leptin prevents fasting-induced suppression of prothyrotropin-releasing hormone messenger ribonucleic acid in neurons of the hypothalamic paraventricular nucleus, *Endocrinology* 138: 2569-2576, 1997.
69. Tu HM, Kim S-W, Salvatore D, Bartha T, Legradi G, Larsen PR, Lechan RM, Regional distribution of type 2 thyroxine deiodinase messenger ribonucleic acid in rat hypothalamus and pituitary and its regulation by thyroid hormone, *Endocrinology* 138: 3359-3368, 1997
70. Legradi G, Holzer D, Kapcala LP, Lechan RM, Glucocorticoids inhibit stress-induced phosphorylation of CREB in corticotropin-releasing hormone neurons of the hypothalamic paraventricular nucleus, *Neuroendocrinology* 66: 86-97, 1997.
71. Legradi G, Hannibal J, Lechan RM, Association between pituitary adenylate cyclase-activating polypeptide and thyrotropin-releasing hormone in the rat hypothalamus, *J Chem Neuroanat* 13: 265-279, 1998.
72. Legradi G, Hannibal J, Lechan RM, Pituitary adenylate cyclase-activating polypeptide (PACAP)-nerve terminals densely innervate corticotropin-releasing hormone (CRH)-neurons in the hypothalamic paraventricular nucleus of the rat. *Neuroscience Lett* 246:145-148, 1998.
73. Legradi G, Lechan RM, The arcuate nucleus is the major source for neuropeptide Y-innervation of thyrotropin-releasing hormone neurons in the hypothalamic paraventricular nucleus, *Endocrinology* 139: 3262-3270, 1998.
74. Legradi G, Emerson CH, Ahima RS, Rand WM, Flier JS, Lechan RM, Arcuate nucleus ablation prevents fasting-induced suppression of proTRH mRNA in the hypothalamic paraventricular nucleus, *Neuroendocrinology* 68: 89-97, 1998.
75. Tu HM, Legradi G, Bartha T, Salvatore D, Lechan RM, Larsen PR, Regional expression of the type 3 iodothyronine deiodinase (D3) mRNA in the rat central nervous system and its regulation by thyroid hormone, *Endocrinology* 140:784-780, 1999.

76. Sayegh RA, DeLellis R, Alroy J, Lechan, Ball HG, Masculinizing granulosa cell tumor of the ovary in a postmenopausal woman. *J Reprod Med* 44: 821-825,1999.
77. Legradi G, Lechan RM, Agouti-related protein (AGRP) containing nerve terminals innervate thyrotropin-releasing hormone (TRH) neurons in the hypothalamic paraventricular nucleus, *Endocrinology* 140:3643-3652, 1999.
78. Fekete C, Legradi G, Mihaly E, Huang Q-H, Tatro JB, Rand WM, Emerson CH, Lechan RM, α -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.
79. Mihaly E, Fekete C, Tatro JB, Liposits Zs, 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 (a - MSH), *J Clin Endocrinol Metab*, 85: 2596-2603, 2000.
80. Fekete C, Mihaly E, Herscovici S, Salas J, Tu H, Larsen PR, Lechan RM, DARPP-32 and CREB are present in type 2 iodothyronine deiodinase-producing tanycytes: implications for regulation of type 2 deiodinase activity, *Brain Res* 862:154-161, 2000.
81. Fekete C, Legradi G, Mihaly E, Tatro JB, Rand WM, Lechan RM, α -Melanocyte stimulating hormone prevents fasting-induced suppression of corticotropin-releasing hormone gene expression in the rat paraventricular nucleus, *Neuroscience Lett*, 289: 152-156, 2000.
82. Peeters R, Fekete Cs, Goncalves C, Legradi G, Tu HM, Harney JW, Bianco AC, Lechan RM, Larsen PR, Regional adaptation of the central nervous system deiodinases to iodine deficiency, *Am J Physiol Endocrinol Metab* 281; E54-61, 2001.
83. Mihaly E, Fekete C, Legradi G, Lechan RM, Hypothalamic dorsomedial nucleus neurons innervate thyrotropin-releasing hormone-synthesizing neurons in the paraventricular nucleus, *Brain Res* 891: 20-31, 2001
84. Margiloff L, Harris SS, Lee S, Lechan R, Dawson-Hughes B, Vitamin D Status of an Outpatient Clinic Population, *Calcified Tiss Int* 69: 263-267, 2001.
85. Fekete C, Mihaly E, Luo L-G, Kelly J, Clausen JT, Mao Q, Rand WM, Moss LG, Kuhar M, Jackson IMD, Lechan RM, Association of CART-immunoreactive elements with thyrtropin-releasing hormone-synthesizing neurons in the hypothalamic paraventricular nucleus and its

- role in the regulation of the hypothalamic-pituitary-thyroid axis during fasting, *J Neurosci* 20: 9224-9234, 2000.
86. Rios M, Fan G, Fekete C, Kelly J, Bates B, Lechan RM, Jaenisch R, Conditional deletion of brain derived neurotrophic factor in the postnatal brain leads to obesity and stress-induced hyperactivity, *Mol Endocrinology* 15L1748-1757, 2001.
 87. Fekete C, Kelly J, Mihaly E, Sarkar S, Rand WM, Legradi G, Emerson CH, Lechan RM, Neuropeptide Y (NPY) has an inhibitory central action on the hypothalamic-pituitary thyroid axis, *Endocrinology* 142: 2606-2613, 2001.
 88. Mihaly E, Legradi G, Fekete Cs, Lechan RM, Efferent projections of proTRH neurons in the ventrolateral periaqueductal gray, *Brain Res* 919, 185-197, 2001.
 89. Lu L-G, Lee SL, Lechan RM, Jackson IMD, Effect of preproTRH antisense on TRH synthesis and the viability of cultured rat diencephalic neurons, *Endocrine* 15: 79-85, 2001.
 90. Sarkar S, Légrádi G, Lechan RM, Intracerebroventricular Administration of α -Melanocyte Stimulating Hormone Increases Phosphorylation of CREB in TRH- and CRH-Producing Neurons of the Hypothalamic Paraventricular Nucleus, *Brain Res* 945: 50-59, 2002.
 91. Wittmann G, Liposits Zs, Lechan RM, Fekete Cs, Medullary adrenergic neurons contribute to the neuropeptide Y-ergic innervation of hypophysiotropic thyrotropin-releasing hormone synthesizing neurons, *Neuroscience Lett* 324: 69-73, 2002.
 92. Mihaly Emese, Fekete Cs, Lechan RM, Liposits Zs, Corticotropin releasing hormone-synthesizing neurons of the human hypothalamus receive neuropeptide Y-immunoreactive innervation from neurons residing primarily outside of the infundibular nucleus, *J Comp Neurol* 446: 235-243, 2002.
 93. Nillni EA, Lee A, Legradi G, Lechan RM, Opiate withdrawal affects the post-translational processing products of proTRH in the ventrolateral column of the midbrain periaqueductal gray, *J Neurochem* 80: 874-884, 2002.
 94. Fekete Cs, Sarkar S, Rand WM, Emerson CH, Lechan RM, Agouti related protein (AGRP) has a central inhibitory action on the hypothalamic-pituitary-thyroid (HPT) axis; Comparisons between the effect of AGRP and neuropeptide Y (NPY) on energy homeostasis and the HPT axis, *Endocrinology* 143: 3846-3853, 2002.
 95. Hahm S, Fekete Cs, Mizuno TM, Windsor J, Yan H, Boozer CN, Lee C, Elmquest JK, Lechan RM, Mobbs CV, Salton SRJ, VGF is required for

- obesity induced by diet, gold thioglucose treatment, and agouti and is differentially regulated in pro-opiomelanocortin- and neuropeptide Y-containing arcuate neurons in response to fasting, *J Neurosci* 22: 6920-6928, 2002.
96. Fekete Cs, Wittmann G, Lechan RM, GABA-ergic innervation of thyrotropin-releasing hormone-synthesizing neurons in the hypothalamic paraventricular nucleus of the rat, *Brain Res* 957: 251-258, 2002.
 97. Fekete Cs, Sarkar, S, Rand WM, Harney JW, Emerson CH, Bianco AC, Beck-Sickinger A, Lechan RM, Neuropeptide Y1 and Y5 receptors mediate the effect of NPY on the hypothalamic-pituitary-thyroid (HPT) axis, *Endocrinology* 143: 4513-4519, 2002.
 98. Sarkar S, Lechan RM, Central administration of neuropeptide Y (NPY) reduces α -MSH-induced CREB phosphorylation in proTRH neurons and increases CREB phosphorylation in CRH neurons in the hypothalamic paraventricular nucleus (PVN), *Endocrinology* 144: 281-291, 2003.
 99. Schumann R, Joseph N, Zabala L, Schwaitzberg SD, Lechan RM, Hypertensive crisis inducing rhabdomyolysis during laparoscopic resection of a large pheochromocytoma: a case report, *J Clin Anesth* 15: 540-544, 2003.
 100. Sarkar, S, Fekete Cs, Lechan RM, Glucagon like peptide-1(7-36) amide (GLP-1) nerve terminals densely innervate corticotropin-releasing hormone neurons in the hypothalamic paraventricular nucleus of the rat. *Brain Res* 985: 163-168, 2003.
 101. Sarkar S, Wittmann G, Fekete Cs, Lechan RM, Central administration of cocaine- and amphetamine regulated transcript (CART) increases phosphorylation of cyclic adenosine 5'-monophosphate response element binding protein (CREB) in corticotropin releasing hormone (CRH) producing neurons but not in prothyrotropin releasing hormone producing neurons in the hypothalamic paraventricular nucleus, *Brain Res* 999: 181-192, 2004.
 102. Fekete Cs, Wittmann G, Liposits Zs, Lechan RM, Origin of cocaine-and amphetamine-regulated transcript (CART)-immunoreactive innervation of the hypothalamic paraventricular nucleus, *J Compr Neurol* 469: 340-350, 2004.
 103. Raptis S, Fekete Cs, Sarkar S, Nagy GM, Lechan RM, CART Co-contained in TRH neurons of the hypothalamic paraventricular nucleus (PVN) modulates TRH-induced prolactin secretion, *Endocrinology* 145: 1695-1699, 2004.
 104. Wittmann G, Liposits Zs, Lechan RM, Fekete Cs, Medullary adrenergic neurons contribute to the cocaine-and amphetamine regulated transcript-

- immunoreactive innervation of thyrotropin-releasing hormone (TRH) synthesizing neurons in the hypothalamic paraventricular nucleus, *Brain Res* 1006: 1-7. 2004.
105. Wittmann G, Sarkar S, Hrabovszky E, Liposits Zs, Lechan RM, Fekete Cs, Galanin but not galanin-like peptide (GALP)-containing axon terminals innervate hypophysiotropic thyrotropin-releasing hormone (TRH)-synthesizing neurons in the hypothalamic paraventricular nucleus, *Brain Res* 1007: 43-50, 2004.
106. Fekete Cs, Gereben B, Doleschall M, Harney JW, Dora JM, Bianco AC, Sarkar S, Liposits Zs, Rand W, Emerson C, Kacs Kovics I, Larsen PR, Lechan RM, Lipopolysaccharide induces type-2 iodothyronine deiodinase in the mediobasal hypothalamus: implications for the nonthyroidal illness syndrome, *Endocrinology* 145: 1649-1655, 2004.
107. Toni R, Malaguti A, Castorina S, Roti E, Lechan RM, New paradigms in neuroendocrinology; Relationships between obesity, systemic inflammation and the neuroendocrine system, *J Endocrinol Invest* 27: 182-186, 2004.
108. Fekete CS, Marks DL, Sarkar S, Emerson CH, Rand WM, Cone RD, Lechan RM, Effect of agouti-related protein (AGRP) in regulation of hypothalamic-pituitary-thyroid (HPT) axis in the MC4-R KO mouse, *Endocrinology* 145: 4816-4821, 2004.
109. Fekete Cs, Sarkar S, Lechan RM, Relative Contribution of Brainstem Afferents to the Cocaine-and Amphetamine-Regulated (CART) Innervation of Thyrotropin-Releasing Hormone Synthesizing Neurons in the Hypothalamic Paraventricular Nucleus (PVN), *Brain Research* 1032: 171-175, 2005.
110. Fekete Cs, Singru PS, Sarkar S, Rand WM, and Lechan RM, Ascending Brainstem Pathways are Not Involved in Lipopolysaccharide-Induced suppression of TRH Gene Expression in the Hypothalamic Paraventricular Nucleus, *Endocrinology* 146: 1357-1363, 2005.
111. Fekete C, Wittmann G, Lechan RM, Liposits Zs, Glutamatergic Innervation of Corticotropin-Releasing Hormone- and Thyrotropin-Releasing Hormone-Synthesizing Neurons in the Hypothalamic Paraventricular Nucleus of the Rat, *Brain Res* 1039: 53-62, 2005.
112. Wittmann G, Liposits Z, Lechan RM, Fekete C, Origin of Cocaine-and Amphetamine-Regulated Transcript-Containing Axons Innervating Hypophysiotropic Corticotropin-Releasing Hormone-Synthesizing Neurons in the Rat, *Endocrinology* 146: 2985-91, 2005.
113. Fekete C, Sarka S, Christoffolete MA, Emerson CH, Bianco AC, Lechan RM, Bacterial Lipopolysaccharide (LPS)-Induced Type 2 Iodothyronine

- Deiodinase (D2) Activation in the Mediobasal Hypothalamus (MBH) is Independent of the LPS-Induced Fall in Serum Thyroid Hormone Levels, *Brain Res* 1056: 97-99, 2005.
114. Singru, P, Fekete C, Lechan RM, Neuroanatomical Evidence for Participation of the Hypothalamic Dorsomedial Nucleus (DMN) in Regulation of the Hypothalamic Paraventricular Nucleus (PVN) by α -Melanocyte Stimulating Hormone, *Brain Research*, 1064: 42-51, 2005.
115. Fekete, Singru PS, Sanchez E, Sarkar S, Riberio RS, Rand WM, Emerson CH, Bianco AC, Lechan RM, Differential Effects of Central Leptin, Insulin or Glucose Administration During Fasting on the Hypothalamic-Pituitary-Thyroid (HPT) Axis and Feeding-Related Neurons in the Arcuate Nucleus, *Endocrinology* 147: 520-529, 2006.
116. Christoffolete MA, Ribeiro R, Singru P, Fekete C, Gordon DF, Harney JW, Ridgway EC, Larsen PR, Lechan RM, Bianco AC, Sustained Expression of Type 2 Iodothyronine Deiodinase in Thyrotrophs Explains the Pituitary TSH Feed-back Mechanism, *Endocrinology* 147:1735-1743,2006.
117. Sánchez E, Fekete C, Lechan R M, and Joseph-Bravo P, Cocaine- and Amphetamine-Regulated Transcript (CART) Expression is Differentially Regulated in the Hypothalamic Paraventricular Nucleus of Lactating Rats Exposed to Suckling or Cold Stimulation, *Brain Research* 1132: 120-128, 2007. [PMCID: PMC1963438](#)
118. Singru PS, Sanchez E, Fekete C, Lechan RM, Importance of Melanocortin Signaling in Refeeding-Induced Neuronal Activation and Satiety, *Endocrinology* 148: 638-646, 2007.
119. Neff LM, Weil M, Cole A, Hedges TR, Shucart W, Lawrence D, Zhu J-J, Tischler AS, Lechan RM, Temozolomide in the Treatment of an Invasive Prolactinoma Resistant to Dopamine Agonists, *Pituitary* 10: 81-86, 2007.
120. Singru P, Mazumdar M, Sakharkar A, Lechan RM, Thim L, Clausen JT, Subhedar N, Immunohistochemical Localization of Cocaine-and Amphetamine-Regulated Transcript Peptide in the Brain of the Catfish, *Claras batrachus* (Linn.), *J Comp Neurol* 502: 215-235, 2007.
121. Menyhért J, Wittmann G, Lechan RM, Keller E, Liposits Z, Fekete C, Cocaine- and amphetamine-regulated transcript (CART) is colocalized with the orexigenic neuropeptide Y and agouti-related protein and absent from the anorexigenic alpha-melanocyte-stimulating hormone neurons in the infundibular nucleus of the human hypothalamus, *Endocrinology* 148: 4276-4281, 2007. [PMID: 17525122](#)
122. Wajner SM, Wagner MS, Melo RCN, Parreira GG, Fekete C, Bianco AC, Lechan RM, and Maia AL, Type 2 Iodothyronine Deiodinase is Highly

- Expressed in Germ Cells of Adult Rat Testis, *J Endocrinol* 194: 47-54, 2007.
123. Dandekar MP, Singru PS, Kokare DM, Lechan RM, Thim L, Thorn Clausen J and Subhedar N, Importance of Cocaine-and Amphetamine-Regulated Transcript Peptide (CART) in the Central Nucleus of the Amygdala in Anxiogenic Responses Induced by Ethanol Withdrawal, *Neuropsychopharmacology*, Apr;33(5):1127-36, 2008. PMID: 17637604
 124. Fekete C, Freitas BCG, Zeold A, Liposits Z, Christoffolete MA, Lechan RM, Bianco AC, Gereben B, Expression patterns of WSB-1 and USP-33 underlie cell-specific post-translational control of type 2 deiodinase (D2) in the rat brain, *Endocrinology* 148:4865-4874, 2007. PMID: 17628004
 125. Fuzesi T, Wittmann G, Liposits Z, Lechan RM, Fekete C, Relative contribution of catecholaminergic brainstem and AGRP-containing arcuate nucleus neurons to the neuropeptide-Y-immunoreactive innervation of the hypophysiotropic corticotrophin-releasing hormone-synthesizing neurons in the rat, *Endocrinology* 148: 5442-5450, 2007. PMID: 17690163
 126. Singru PS, Sanchez E, Fekete C, Lechan RM, MAP Kinase is Activated in Corticotropin-Releasing Hormone (CRH)-Containing Neurons of the Hypothalamic Paraventricular Nucleus (PVN) Following Bacterial Lipopolysaccharide (LPS) Administration, *Endocrinology* 149: 2283-2292, 2008. PMID: 18187539 PMCID: PMC2329264
 127. Sanchez, E, Singru PS, Fekete C, Lechan RM, Induction of Type 2 Iodothyronine Deiodinase (D2) in the Mediobasal Hypothalamus (MBH) by Bacterial Lipopolysaccharide (LPS) is Independent of Changes in Circulating Corticosterone, *Endocrinology* 149: 2484-2493, 2008. PMCID: PMC2329263
 128. Sánchez E, Singru PS, Acharya R, Bodria M, Fekete C, Zavacki AM, Bianco AC, Lechan RM, Differential Effects of Refeeding on Melanocortin-Responsive Neurons in the Hypothalamic Paraventricular Nucleus, *Endocrinology* 149: 4329-4335, 2008. PMCID: PMC2553369
 129. Füzesi T, Sánchez E, Wittmann G, Singru PS, Fekete C and Lechan RM, Regulation of cocaine-and amphetamine-regulated transcript-(CART) synthesizing neurons of the hypothalamic paraventricular nucleus by endotoxin; Implications for LPS-induced regulation of energy homeostasis, *J Neuroendocrinology* 20: 1058-1066, 2008. PMCID: PMC2714541
 130. Singru PS, Mazumdar M, Barsagade V, Lechan RM, Thim L, Clausen JT, Subhedar N, Association of cocaine-and amphetamine-regulated transcript and neuropeptide Y In the forebrain and pituitary of the catfish, *Clarias batrachus*: A double Immunofluorescent labeling study, *J Chem Neuroanatomy* 36:239-250, 2008. PMID: 18675898

131. Deli L, Wittmann G, Kallo I, Lechan RM, Watanabe M, Liposits Z, Fekete C, Type 1 Cannabinoid Receptor (CB1)-Containing Axons Innervate Hypophysiotropic Thyrotropin-Releasing Hormone-Synthesizing Neurons, *Endocrinology* 150: 98-103, 2008. PMID: PMC2630898
132. Sánchez E, Vargas MA, Singru PS, Pascual I, Romero F, Fekete Cs, Charli JI, Lechan RM, Contribution of Tanycyte Pyroglutamyl Peptidase II to Regulation of the Hypothalamic-Pituitary-Thyroid Axis Through Glial-Axonal Associations in the Hypothalamic Median Eminence, *Endocrinology* 150: 2283-2291, 2009. PMID: PMC2671897 [Available on 2010/5/1]
133. Wittmann G, Fuzesi T, Singru PS, Liposits Z, Lechan RM, Fekete C, Efferent projections of thyrotropin-releasing hormone-synthesizing neurons residing in the anterior parvocellular subdivision of the hypothalamic paraventricular nucleus, *J Compr Neurol* 515:313-330, 2009. PMID: PMC2697667 [Available on 2010/7/20]
134. Wittmann G, Füzési T, Liposits Zs, Lechan RM, Fekete Cs, Distribution and axonal projections of neurons co-expressing thyrotropin-releasing hormone and urocortin 3 in the rat brain, *J Compr Neurol* 517: 825-840, 2009.
135. Fuzesi T, Wittmann G, Lechan RM, Liposits Z, Noradrenergic Innervation of Hypophysiotropic Thyrotropin-Releasing Hormone-Synthesizing Neurons in Rats. *Brain Res* 1294: 38-44, 2009. PMID: PMC2764741 [Available on 2010/10/19]
136. Danilova OV, Mele D, Tai AK, Beinborn M, Leiter AB, Greenberg AS, Perfield JW II, Singru PS, Lechan RM, and Huber BT, Neurogenin 3-Specific DPP2 deficiency causes impaired glucose tolerance, insulin resistance and visceral obesity, *Endocrinology* 150: 5240-5248, 2009. PMID: PMC2795711 [Available on 2010/12/1]
137. Freitas BCG, Gereben B, Castillo M, Kalló I, Zeöld A, Egri P, Liposits Z, Maciel RMB, Singru P, Sanchez E, Zavacki AM, Lechan RM, and Bianco AC, Paracrine signaling by glial cell-derived triiodothyronine activates neuronal gene expression in the rodent brain and human cells., *J Clin Invest* 120: 2206-17, 2010. PMID: PMC2877954
138. Kadar A, Sanchez E, Wittmann G, Singru PS, Fuzesi T, Marsili A, Larsen PR, Liposits Z, Lechan RM, Fekete C, Distribution of hypophysiotropic thyrotropin-releasing hormone (TRH) synthesizing neurons in the hypothalamic paraventricular nucleus of the mouse, *J Compr Neurol* 518: 3948-3961, 2010. PMID: PMC2932658
139. Fekete C, Rother E, Sanchez E, Singru P, Liposits Z, Brunning J, Lechan RM, Neuropeptide Y Neurons of the Arcuate Nucleus are Involved in Mediation of the Anorexigenic Effect of Oleyethanolamide, submitted.

140. Sanchez E, Singru PS, Wittmann G, Nouriel SS, Fekete C, Lechan RM, Contribution of TNF-alpha and nuclear factor-kappaB signaling to type 2 iodothyronine deiodinase activation in the mediobasal hypothalamus lipopolysaccharide administration, *Endocrinology* 151: 3827-2835, 2010. PMID: PMC2940536
141. Rosene ML, Wittmann G, Singru PS, Lechan RM, Bianco AC, Inhibition of the type 2 iodothyronine deiodinase underlies the elevated plasma TSH associated with amiodarone treatment, *Endocrinology* 151: 5961-5970, 2010. PMID: PMC2999495
142. Igreja S, Chahal HS, King P, Bolger GB, Srirangalingam U, Guasti L, Chapple JP, Trivellin G, Gueorguiev M, Guegan K, Stals K, Khoo B, Kumar AV, Ellard S, Grossman AB, Korbonits M; International FIPA Consortium, Characterization of aryl hydrocarbon receptor interacting protein (AIP) mutations in familial isolated pituitary adenoma families, *Hum Mutat* 31: 950-960, 2010. PMID: PMC3065644
143. Marsili A, Sanchez E, Singru P, Zavacki AM, Lechan RM, Larsen PR, Thyroxine-induced induction of pyroglutamyl peptidase II and inhibition of TSH release precedes suppression of TRH mRNA and requires type 2 deiodinase, *J Endocrinol* 211: 73-78, 2011.
144. Singru P, Wittmann G, Zseli G, Fekete C, Lechan RM, Refeeding-activated glutamatergic neurons in the hypothalamic paraventricular nucleus (PVN) mediate effects of melanocortin signaling in the nucleus tractus solitarius (NTS), *Endocrinology* 153: 3804 -3814, 2012.
145. Kallo I, Vida B, Zeold A, Bardoczi Z, Mohacsik P, Zavacki AM, Farkas E, Kadar A, Hrabovszky E, Arrojo e Drigo R, Dong L, Palkovits M, Borsay BA, Herczeg L, Lechan RM, Bianco AC, Liposits Z, Fekete C, Gereben B, Axonal localization of the type 3 deiodinase and the thyroid hormone transporter MCT8 in the median eminence represent a novel pathway to regulate thyroid hormone metabolism in hypothalamic neurosecretory neurons, *PLoS One* 7:e37860, 2012.
146. Sárvári A, Kádár A, Farkas E, Zséli G, Füzesi T, Lechan RM and Fekete C, Thyrotropin-Releasing Hormone-Containing Axons Innervate Histaminergic Neurons in the Tuberomammillary Nucleus, *Brain Research* 1488: 72-80, 2012.
147. Fekete C, Zséli G, Singru PS, Kádár A, Wittmann G, Füzesi T, El-Bermani W, Lechan RM, [Activation of Anorexigenic Pro-Opiomelanocortin Neurons during Refeeding is Independent of Vagal and Brainstem Inputs](#), *J Neuroendocrinol.* 24(11):1423-1431, 2012
148. Fonseca TL, Medina MC, Campos MPO, Mora-Garzon ME, Ueta CB, Caicedo A, Gerben B, Lechan RM, Bianco AC, Coordination of hypothalamic and pituitary T3 production regulates TSH expression, *JCI* 123:1492 – 1500, 2013.
149. Pacak K, Jachmanova I, Prodanov T, Yang C, Merino M, Foio T, Prchal JT, Tischler AS, Lechan RM, Zhuang Z, A new syndrome of paraganglioma and somatostatinoma associated with polycythemia, *J Clin Oncol* 31: 1690-1698, 2013.
150. Yang C, Sun MG, Matro J, Huynh T, Rahimpour S, Prchal JT, Lechan R, Lonser R, Pacak K, Novel HIF2A mutations disrupt oxygen sensing leading to

- polycythemia, paragangliomas and somatostatinomas, *Blood* 28:2563-2566, 2013.
151. Wittmann G, Lechan RM, Distinct glutamatergic and GABAergic subsets of hypothalamic proopiomelanocortin neurons revealed by in situ hybridization in male rats and mice, *J Compr Neurol* 521:3287-3302, 2013
 152. Fekete C, Zelna D, Mergi Z, Varga J, Liposits Z, Makara G, Lechan, RM, Neuroendocrine mechanisms regulating the hypothalamic-pituitary-adrenocortical axis during fasting, submitted.
 153. Patel FB, Khagi S, Daly KP, Lechan RM, Ummaritchot V, Saif MW, Pancreatic Neuroendocrine Tumor with Ectopic Adrenocorticotropin Production: A Case Report and Review of Literature, *Anticancer Research*, in press.

BOOK/CHAPTERS/REVIEWS

1. Jackson IMD, Lechan RM: Thyrotropin-Releasing Hormone. Brain Peptides. D Krieger, M Brownstein, JB Martin, Eds., John Wiley and Sons, New York. 661-685, 1983.
2. Reichlin S, Robbins RE, Lechan R: Somatostatin and the Nervous System. In: 2nd International Somatostatin Symposium, Athens, ed. by Rosenthal J, Raptis S, Gerich J. Attempto Publishing House, University Press, Tubingen, W. Germany, 1984.
3. Lechan RM: Peptides and the Spinal Cord, Short Course in Neuroendocrinology, American Academy of Neurology, 1984
4. Fink WK, Montminy MR, Tsukada T, Hoefler H, Specht LA, Lechan RM, Wolfe H, Mandel G, Goodman RH: *In situ* Hybridization of Somatostatin and Vasoactive Intestinal Peptide mRNA in the Rat Nervous system: Contrasting Patterns of Ontogeny.
5. Goodman RM, Lechan RM, Wu P, Jackson IMD, Childers H, Hofler H, Wolfe, Lee S, Mandel G: New Techniques in Neuroendocrinology: Expression-Cloning of the Precursor to Thyrotropin Releasing Hormone. Neuroendocrine Perspectives, Vol 5:233-245, 1986.
6. Lechan RM: Neuroendocrinology of Pituitary Hormone Regulation. Endocrinology and Metabolism Clinics 16:475-501, 1987
7. Jackson IMD, Lechan RM: Thyrotropin-Releasing Hormone Update, Vol 1, JB Martin, MJ Brownstein, DT Krieger, Eds., J. Wiley & Sons, New York 1987.
8. Lechan RM: Parasellar Lesions. Current Therapy in Endocrinology and Metabolism-3, C. Wayne Bardin, Ed., B.C. Decker, Inc., pp 16-24, 1988.
9. Lechan RM, Segerson TP. Pro-TRH Gene Expression and Precursor Peptides in Rat Brain: Observations by Hybridization Analysis and Immunocytochemistry. Annals of the N.Y. Acad of Sci, 553:29-59, 1989.
10. Munsat TL, Lechan RM, Taft SM, Jackson IMD, Reichlin S: TRH and Diseases of the Motor System. Annals of the NY Acad Sci. 553:388-398, 1989
11. Jackson IMD, Lechan RM, Lee SL: TRH Prohormone: Biosynthesis, Anatomic Distribution, Processing. Frontiers in Neuroendocrinology, 11, No.4:267-312,1990.
12. Toni R, Lechan RM: Interleukin-1 in the Hypothalamo-Pituitary Neuroendocrine System. Horizons in Endocrinology, Vol. 76, Raven Press, 1991.
13. Lechan RM, Toni R: TRH Neuronal Systems in the CNS, Neuroendocrinology, C Nemeroff, Ed., CRC Press, pp. 279-332, 1992.

14. Lechan RM, Kakuscka I: Feedback regulation of TRH gene expression by thyroid hormone in the hypothalamic paraventricular nucleus. *Functional Anatomy of the Hypothalamus*, Ciba Foundation, Ciba Foundation Symposium 168, pp-144-164, 1992
15. Lechan RM: *Suprasellar and Hypothalamic Disorders*, 44th Postgraduate Assembly, The Endocrine Society, 1992.
16. Lechan RM: TRH, *Thyroid Today*, 1992
17. Toni R, Lechan RM: Neuroendocrine regulation of thyrotropin-releasing hormone (TR) in the tuberoinfundibular system. *J Endocrinological Investigation* 16:715-753, 1993
18. Toni R, Mosca S, Lechan RM, Vezzadini P, Role of forebrain VIP in the neuroendocrine pathophysiology of SIADH in hypothyroidism, *Frontiers in Endocrinology* 9: 71-76, 1994.
19. Lechan RM: *Neuroendocrinology of Hypophysiotropic Thyrotropin-Releasing Hormone (TRH)*, Regulation of the Neuroendocrine Hypothalamus, S. Laron, Ed., Freund Publishing, in press.
20. Lechan R.M.: Functional microanatomy of the hypophysial-pituitary axis. in Melmed,S (ed), *Oncogenesis and Molecular Biology of Pituitary Tumors*, *Frontiers of Hormone Research*, 20: 2-40, 1996.
21. Akil H, Campeau S, Cullinan WE, Lechan RM, Toni RWatson SJ, Moore RY, *Neuroendocrine Systems I: Overview - Thyroid and Adrenal Axes*, *Fundamental Neuroscience*, M.J. Zigmond, F.E. Bloom, S.C. Landis, J.L. Roberts, L.R. Squire, Eds., Academic Press, 1999, pp 1127-1150.
22. Lechan RM, Toni R, *Regulation of Pituitary Function*, *Atlas of Clinical Endocrinology*, Vol. 4, *Neuroendocrinology and Pituitary Disease*, Molitch, ME (Ed), pp 1-25, 1999.
23. Lechan R.M., Tatro J.B., Editorial: Hypothalamic Melanocortin Signaling in Cachexia, *Endocrinology* 142: 3288-3291, 2001.
24. Lechan, RM, Toni R, *Thyroid Hormones in Neural Tissue*, in *Hormones, Brain and Behavior*, D. W. Pfaff, Ed, Academic Press,vol 2., pp 157-238.
25. Lechan RM, Hollenberg A, *Thyrotropin-Releasing Hormone (TRH): Gene, Synthesis, Structure, Cell Processing and Biology*, *Encyclopedia of Hormones*, H.L. Henry and A.W. Norman, Eds, Academic Press, in press.
26. Lechan RM, Toni R, *Regulation of Pituitary Function Update*, *Altas of Clinical Endocrinology, Neuroendocrinology and Pituitary Disease*, Molitch, ME (Ed), 2002.
27. Chapter 12. *Endocrinology*, *Oxford Handbook of Clinical Medicine*, D. Thaler, Ed, Oxford University Press, NY, NY, 2003 edition.
28. Lechan RM, Toni R, *Functional Anatomy of the Hypothalamus and Pituitary*, in *Endotext.com*, M. Besser, Ed., 2003.

29. Lechan Fekete CS, Feedback Regulation of Thyrotropin-Releasing Hormone (TRH): Mechanisms for the Nonthyroidal Illness Syndrome, *J Endocrinol Invest* 27 Sup (6), 105-119, 2004.
30. Lechan RM, Fekete Cs, Role of Thyroid Hormone deiodination in the Hypothalamus, *Thyroid* 15: 883-97, 2005.
31. Lechan RM, Fekete Cs, Role of Melanocortin Signaling in the Regulation of the Hypothalamic-Pituitary-Thyroid (HPT) Axis, *Peptides* 27: 310-325, 2005.
32. Toni R, Lechan RM, Mazzotti G, Goiter in the Court of the Byzantine Empress, Theodora, *J Endocrinol Invest* 28, 481, 2005.
33. Toni R, Ghigo E, Roti E. Lechan RM, Endocrinology and art. Acromegaly and goiter in the Pre-Columbian, Mesoamerican Population, *J Endocrinol Invest* 30: 169-170, 2007.
34. Fekete CS, Lechan RM, Cocaine and Amphetamine Regulated Transcript (CART), in *Brain Peptides*, A. Kastin, Ed, Elsevier, in press.
35. Lechan RM, Fekete C, The TRH Neuron: A Hypothalamic Integrator of Energy Metabolism, *Progress in Brain Research*, vol 153, 209-235, 2006.
36. Fekete C, Lechan RM, Neuroendocrine Implications for the Association between CART and Hypophysiotropic TRH, *Peptides* 27: 2012-2018, 2006.
37. Lechan RM, Fekete C, Central Mechanisms for Thyroid Hormone Regulation, *Am J Psychiatry* 163:9, 2006.
38. Lechan RM, Fekete CS, Infundibular Tanycytes as Modulators of Neuroendocrine Function: Hypothetical Role in the Regulation of the Thyroid and Gonadal Axis, *Acta Bio Medica* 78 Supp1:84-98, 2007. PMID: 17465327
39. Fekete C, Lechan RM, Negative Feedback Regulation of Hypophysiotropic Thyrotropin-Releasing Hormone (TRH) Synthesizing Neurons; Role of Neuronal Afferents and Type 2 Deiodinase, *Frontiers in Neuroendocrinology* 28:97-114, 2007. PMID: 17588648
40. Fekete C, Lechan RM, Regulation of Hypophysiotropic TRH and CRH Neurons by Feeding-Related Signals, *Collection of Symposium Series*, J. Slaninova, Ed, vol. 9, 43-48, 2007.
41. Lechan RM, The Dilemma of the Nonthyroidal Illness Syndrome, *Acta Bio Medica*, 79: 165-171, 2008.
42. Lechan RM, Toni R, Functional Anatomy of the Hypothalamus and Pituitary, in *Endotext.com*, M. Besser, Ed., 2008.
43. Lechan, RM, Fekete, C, Toni R, Thyroid Hormones in Neural Tissue, in *Hormones, Brain and Behavior*, 2nd edition, D. W. Pfaff, Ed, Academic Press, 2009.

44. Lechan, RM, Fekete, C, Toni R, Thyroid Hormones in Neural Tissue, in Hormones, Molecular Mechanisms of Hormone Actions on Behavior, Anne M. Etgen, Donald W. Pfaff, Ed, San Diego, Academic Press, 2009.
45. Lechan RM, Fekete C, Hypothalamo-Pituitary-Thyroid Axis: Organization, Neural/Endocrine Control of TRH, The New Encyclopedia of Neuroscience, Larry R. Squire, Ed, Elsevier, pp 75-87, 2009
46. Toni R, Porro A, Dallatana D, Bodria M, Vitale M, Lechan RM, Masotti G, Il metodo sperimentale di Paolo Mascagni e l'antropometria costituzionale-forense di Lorenzo Tenchini, Plumelia; Aiello and Provenzano, Eds, Bagheria, 527-541, 2010.
47. Lechan, RM, Fekete C, Neuroendocrine and Metabolic Adaptations in the Central Nervous System to Weight Loss that Facilitate Weight Re-Gain, Pediatric Obesity: Etiology, Pathogenesis, and Treatment, M. Freemark, Ed., Humana Press/Springer, 2010.
48. Sanchez E, Lechan RM, Central Modulation of the Hypothalamic-Pituitary-Thyroid Axis, Psychoneuroendocrinology, P. Gotari, Ed., Ch 7, 2011
49. Sanchez E and Lechan RM, Pyroglutamyl-Peptidase II, Handbook of Proteolytic Enzymes, 3rd edition, N.D. Rawlings and G. Salvensen, Eds, 2013
50. Fekete C, Lechan RM, Cocaine- and Amphetamine Regulated Transcript (CART), Handbook of Biologically Active Peptides, Second edition, H. Vaudry, ed, Ch 98, 732-737, 2013.
51. Lechan RM, Toni R, Functional Anatomy of the Hypothalamus and Pituitary, in Endotext.com, M. Besser, Ed., 2013.
52. Fekete Cs and Lechan RM, Central Regulation of the Hypothalamic-Pituitary-Thyroid Axis Under Physiological and Pathophysiological Conditions, Endocrine Rev, in press.

ABSTRACTS/PRESENTATIONS

1. Paull WK, Lechan R: The median eminence of mice with a MSG induced arcuate lesion. *Anat Rec* 178:436, 1974.
2. Lechan RM, Alpert LC, Jackson IMD: Is LHRH synthesized in the hypothalamic arcuate nucleus? Studies of LHRH in monosodium glutamate lesioned mice. Fifth New England Endocrinology Conference, Boston, MA, 1976.
3. Lechan RM, Jacobson S, Nestler J, Reichlin S: The tuberoinfundibular systems of the rat as demonstrated by horseradish peroxidase retrograde transport following microiontophoretic injection. 9th Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, 1979. (*Neurosci Abs* 5:754, 1979).
4. Lechan RM, Nestler JL, Robbins RJ, Jacobson S, Bollinger J: Ontogenesis of somatostatin (SRIF) in the forebrain of the rat central nervous system. 10th Annual Meeting of the Society for Neuroscience, Cincinnati, Ohio, 1980. (*Neurosci Abs* 6, 1980).
5. Lechan RM, Nestler JL, Molitch ME: Immunohistochemical identification of a novel peptide in rat brain with human growth hormone (hGH)-like immunoreactivity reactivity. 63rd Annual Meeting of The Endocrine Society, Cincinnati, Ohio, 1981.
6. Lechan RM, Nestler JL, Jacobson S: Identification of the "tuberoinfundibular" system of the rat using immunohistochemical localization of retrogradely transported wheat germ Agglutinin (WGA) 11th Annual Meeting of the Society for Neuroscience.
7. Lechan RM, Nestler JL, Jacobson S: Immunologic identification of wheat germ agglutinin (WGA) transported in the rat and monkey central nervous system. Congress of Neurologic Surgeons, 1981.
8. Lechan RM, Molitch ME, Jackson IMD: Simultaneous occurrence of TRH in all neurons containing human growth hormone (hGH)-like material in rat brain. 64th Annual Meeting of the Endocrine Society, San Francisco, CA, 1982.
9. Engler D, Lechan RM: Immunohistochemical localization of thyrotropin-releasing hormone in the endocrine and exocrine pancreas of the rat. 64th Annual Meeting of The Endocrine Society, San Francisco, CA 1982.
10. Lechan RM, Jackson IMD: Immunohistochemical localization of thyrotropin-releasing hormone (TRH) in the rat brain. 12th Annual Meeting of the Society for Neuroscience, Minneapolis, Minnesota, 1982. (*Neuro Sci Abs*, 1982).
11. Lechan RM, Snapper SB, Jacobson S, Jackson IMD: Comparative

- immunologic studies on the distribution of thyrotropin-releasing hormone (TRH) in the rat and monkey spinal cord. Schmitt Brain-Endocrine Interaction V Symposium, Wurzburg, Germany, 1983.
12. Lechan RM, Lin HD, Ling NC, Reichlin S: Immunocytochemical evidence that GRF 1-44-NH₂ is localized in the tuberoinfundibular system of rhesus monkey hypothalamus. 13th Annual Meeting of the Society for Neuroscience, Boston, MA, 1983.
 13. Lamberton RP, Lechan RM, Jackson IMD: Histidyl-prolinediketopiperazine (His-Pro DKP) but not TRH is secreted by fetal hypothalamic and cortical cells in culture: evidence that His-Pro DKP may not be derived from TRH. 13th Annual Meeting of the Society for Neuroscience, Boston, MA, 1983.
 14. Lechan RM, Molitch ME, Jackson IMD: Coexistence of human growth hormone-like material (hGH-LM) and thyrotropin-releasing hormone (TRH) in islet cells of the rat neonatal pancreas. 65th Annual Meeting of the Endocrine Society, San Antonio, Texas, 1983.
 15. Low MJ, Lechan RM, Rosenblatt M, Goodman RH. Distribution and content of pro-somatostatin specific antigen in rat brain. 65th Annual Meeting of the Endocrine Society, San Antonio, Texas, 1983.
 16. Lamberton P, Lechan R, Jackson IMD: Ontogeny of TRH and histidyl-proline-diketopiperazine (DKP) in the rat: evidence that DKP may arise independently of TRH. Seventh International Congress of Endocrinology, Quebec, Canada 1984.
 17. Pan JX, Lechan RM, Lin HD, Reichlin S, Jackson IMD: Human pancreatic growth hormone factor (hpGRF) in teleost brain and pituitary: multiple molecular forms and two distinct neuronal systems. Seventh International Congress of Endocrinology, Quebec, Canada 1984.
 18. Lechan RM, Adelman LS, Forte S, Jackson IMD: Organization of thyrotropin-releasing hormone (TRH) immunoreactivity in the human spinal cord. 14th Annual Meeting of the Society for Neuroscience, Anaheim, CA, 1984.
 19. Munsat TL, Mora JS, Robinton JE, Jackson IMD, Lechan R, Hedlund N, Taft J, Reichlin S, Schiefe R: Intrathecal TRH in amyotrophic lateral sclerosis: Preliminary observations. *Neurology* 34:239, 1984.
 20. Jackson IMD, Lechan RM: Thyrotropin releasing hormone (TRH) but not histidyl proline diketopiperazine (His-Pro-DKP) is depleted from the rat spinal cord following 5,7 dihydroxytryptamine (5,7-OHT) treatment. Abstracts of the American Thyroid Association, 1984.
 21. Low MJ, Lechan RM, Hammer RE, Brinster RL, Goodman RH: Expression of metallothionein-fusion genes in the pituitaries of transgenic mice is restricted to gonadotrophs. 67th Annual Meeting of the Endocrine

- Society, Baltimore, Maryland, 1985.
22. Montminy MR, Childeis H, Lechan RM, Forte S, Wolfe H, Goodman RH: Progenitors of somatostatinergic neurons identified by in situ hybridization. 67th Annual Meeting of The Endocrine Society, Baltimore, Maryland, 1985.
 23. Jackson IMD, Lechan RM, Wu P. Immunohistochemical localization of the TRH precursor (Pro TRH) in the rat brain. 5th International Washington Spring Symposium, Washington, D.C. 1985.
 24. Lechan RM, Wu P, Forte S, Jackson IMD. Immunolocalization of the TRH prohormone in the rat central nervous system. 15th Annual Meeting of the Society for Neuroscience, Dallas, Texas, 1985.
 25. Goodman RH, Montminy MR, Low MJ, Sevarino KA, Lechan RM, Mandel G. Biosynthesis of somatostatin. Second Meeting of the European Neuroendocrine Association, 1985.
 26. Lechan RM, Adelman LS, Munsat TL, Forte S, Jackson IMD. Thyrotropin-releasing hormone (TRH) immunoreactivity in human spinal cord. Am Assoc Neuropathologists, 1985.
 27. De Torres WE, Isner JM, Schaefer EJ, Donaldson RF, Lechan RM. Monoclonal immunolocalization of apolipoproteins B, A-1, and E in human atherosclerotic plaque. AFCE National, Washington, D.C. 1986.
 28. Stoff JS, Silva P, Kniaz D, Soloman RJ, Lechan RM, Epstein FH. Atrial natriuretic peptide stimulates shark rectal gland by releasing a neurotransmitter. Am Soc Clin Invest, 1986.
 29. Lechan RM, Van den Bergh P, Wu P, Jackson IMD. The mammalian TRH prohormone is processed to peptides other than TRH. 69th Annual Meeting of the Endocrine Society, Anaheim, CA, 1986.
 30. Segerson TP, Hoefler H, Childers H, Wu P, Lechan RM. In situ hybridization of TRH in RNA in rat brain. 68th Annual Meeting of The Endocrine Society, Anaheim, CA, 1986.
 31. Wu P, Lechan RM, Jackson IMD. Assay and characterization of TRH precursor peptides in rat brain. 16th Annual Meeting of the Society for Neuroscience, Washington, D.C., 1986.
 32. Van den Bergh P, Wu P, Jackson IMD, Lechan RM. Characterization of neurons containing a N-terminal sequence of the TRH prohormone in the midbrain periaqueductal gray (PAG) of the rat. 16th Annual Meeting of the Society for Neuroscience, Washington, D.C., 1986.
 33. Van den Bergh P, Kelly JJ, Adelman L, Munsat TL, Jackson IMD, Lechan RM. Effect of spinal cord TRH deficiency on lower motor neuron function in the rat. American Acad of Neurology, 1986.

34. Segerson TP, Mobtaker H, Wolfe HJ, Kauer J, Wu P, Lechan RM: ProTRH mRNA is increased by hypothyroidism in the rat hypothalamic paraventricular nucleus. 69th Annual Meeting of The Endocrine Society, Indianapolis, Indiana, 1987.
35. Wu P, Lechan RM, Jackson IMD. Novel TRH precursor peptides in the rat brain. 69th Annual Meeting of the Endocrine Society Indianapolis, Indiana, 1987.
36. Van den Bergh P, Kelly JJ, Soule N, Munsat T, Jackson IMD, Lechan RM. Spinal cord TRH deficiency is associated with incomplete recovery of denervated muscle in the rat. Amer Acad of Neurology, 1987.
37. Munsat T, Sloan M, Lechan RM, Van den Bergh P. Motor neuron disease following cervical spinal cord damage. American Neurology Association, 1987.
38. Liposits ZS, Lechan RM, Paull WK, Wu P, Jackson IMD. Adrenergic innervation of thyrotropin releasing hormone (TRH) synthesizing neurons of rat hypothalamus. 17th Annual Meeting of the Society for Neuroscience, New Orleans, 1987.
39. Lechan RM, Segerson TP, Mobtaker H, Burke G, Wu P, Jackson IMD, Wolfe H: Hypothyroidism increases proTRH mRNA and immunoreactive proTRH in the rat hypothalamic paraventricular nucleus (PVN). 17th Annual Meeting of the Society for Neuroscience, New Orleans, 1987.
40. Liposits ZS, Sievers L, Paull WK, Lechan RM, Coen CW, Culler MD, Merchenthaler I, Jackson IMD. Monoamine and peptidergic innervation of chemically characterized hypophysiotrophic neurons. IBRO World Congress, Budapest, Hungary, 1987.
41. Lechan RM, Segerson TP: Pro-TRH Gene expression and precursor peptides in rat brain: Observations by hybridization analysis and immunocytochemistry. NY Acad of Sciences, NY, 1987
42. Dyess EM, Kaplan MM, Wu P, Lechan RM: Pro-TRH transcription in the rat paraventricular nucleus (PVN) is directly regulated by triiodothyronine (T3). 70th Annual Meeting of the Endocrine Society, New Orleans, LA, 1988.
43. Lam KSL, Segerson TP, Cacicedo L, Lechan RM: Hypothyroidism increased VIP mRNA in the rat anterior pituitary. 70th Annual Meeting of the Endocrine Society, New Orleans, LA 1988.
44. Toni R, Jackson IMD, Lechan RM: Innervation of rat hypothalamic paraventricular (PVN) proTRH synthesizing neurons immunoreactive neuropeptide Y. 18th Annual Meeting of the Society for Neuroscience, Toronto, Canada, 1988.
45. Toni R, Jackson IMD, Lechan RM: Somatostatinergic innervation of TRH

- neurons in the rat hypothalamic paraventricular nucleus (PVN): Evidence for unique specialization of contacts with thyroid hormone-responsive cells. 71st Annual Meeting, Endocrine Society, Seattle, WA 1989.
46. Lechan RM, Toni R, Clark BD, Cannon JG, Shaw AR, Dinarello CA, Reichlin S: Interleukin-1 beta localization in rat brain and pituitary. 71st Annual Meeting, Endocrine Society, Seattle WA, 1989.
 47. Aratan-Spire S, Scharfman R, Lechan RM, Tasjian AH: Pro-TRH gene expression by fetal pancreatic islets. 25th Annual Meeting, European Association Study Diabetes, Lisbon, 1989.
 48. Toni R, Lechan RM: 1-Naphthol-pyronin B as a substrate for silver-gold (SG) intensification: Application to double-immunocytochemistry of neuroendocrine systems. The Italian Histochem Soc, Pavia, IT 1989.
 49. Lechan RM: Feedback regulation of TRH by thyroid hormone: Answers to a classic neuroendocrine questions using immunologic and molecular biologic techniques. XIII Federative Intl Cong Anatomy, Rio de Janeiro, Brazil, 1989.
 50. Toni R, Jackson IMD, Lechan RM: Synaptic interactions between thyrotropin-releasing hormone (TRH) neurons in the rat hypothalamic paraventricular nucleus (PVN): Anatomical basis for ultrashort feedback regulation of tuberoinfundibular TRH. IV Meeting European Endocrine Assoc., Santiago de Compostela, 1989.
 51. Lechan RM, Dyess EM, Lee SL: Pro-TRH gene expression in the rat hypothalamic paraventricular nucleus (PVN) is not regulated by glucocorticoids. 19th Annual Meeting Soc. Neuroscience, Phoenix AZ, 1989.
 52. Toni R, Jackson IMD, Leeman SE, Lechan RM: Innervation of rat hypothalamic paraventricular (PVN) TRH-synthesizing neurons by immunoreactive neurotensin. 19th Annual Meeting Soc Neuroscience, Phoenix, AZ 1989.
 53. Schipper HM, Lechan RM, Reichlin S: Estradiol increases glial peroxidase activity in the hypothalamic arcuate nucleus. 19th Annual Meeting Soc. Neuroscience, Phoenix, AZ 1989.
 54. Koenig JI, Snow K, Clark BD, Toni R, Cannon JG, Shaw RM, Dinarello CA, Reichlin S, Lee SL, Lechan RM: Intrinsic pituitary interleukin-1 beta is induced by bacterial lipopolysaccharide (LPS). 72 nd Annual Meeting of The Endocrine Society, 1990
 55. Toni R, Jackson, IMD, Marrama P, Lechan RM: Neuropeptidergic synaptic regulation of TRH-synthesizing neurons in the rat hypothalamic paraventricular nucleus (PVN). J. Endocrinol. Invest. 13 (Suppl.1 No. 4), 1990.

56. Toni R, Mosca S, Jackson IMD, Lechan RM: Ultrastructural localization of N-terminal peptides derived from proTRH in the rat hypothalamus. 3rd European Congress of Cell Biology, 1990.
57. Van den Bergh N, Jackson I, Lechan R: Muscle denervation increases TRH biosynthesis in the rat medullary raphe. VI International Congress, Neuromuscular Diseases, Munich W. Germany, September 16-22, 1990.
58. Toni R, Lechan RM: Hypophysiotropic neuroendocrine circuitries between thyrotropin-releasing hormone-, somatostatin- and neuropeptide Y-immunoreactive neurons in the rat hypothalamic paraventricular nucleus (PVN). XLIV Congresso Nazionale Della Societa Italiana Di Anatomia, Bologna, September 24-26, 1990.
59. Lechan RM: Neuropeptide gene expression in the endocrine hypothalamus. Italian Congress of Anatomy, Bologna, Italy Sept. 23-26, 1990.
60. Kakucska I, Lechan RM: Adrenal status affects TRH but not somatostatin gene expression in the hypothalamus. 73rd Ann. Meet. of The Endocrine Society, Washington, D.C., June 19-22, 1991.
61. Romero LI, Lechan RM, Clark BD, Dinarello CA, Reichlin S: IL-1 receptor antagonist inhibits IL-1 beta but not bacterial lipopolysaccharide (LPS) stimulated IL-6 secretion by rat anterior pituitary cells. 73rd Annual Meeting of The Endocrine Society, Washington, D.C., 1991.
62. Kakucska I, Clark BD, Lechan RM: Endotoxin regulation of TRH and CRH gene expression in the hypothalamic paraventricular nucleus (PVN) is mediated by interleukin-1. The Annual Meeting, Society of Neuroscience, 1991.
63. Lechan RM, Kakucska I: Feedback regulation of the TRH gene expression in the hypothalamic paraventricular nucleus. Ciba Foundation Symposium, Budapest, Hungary, 1991.
64. Kakucska I, Rand W, Lechan RM: Thyrotropin-releasing hormone (TRH) gene expression in the hypothalamic paraventricular nucleus (PVN) is dependent upon feedback regulation by both triiodothyronine (T3) and thyroxine (T4). 74th Annual Meeting of The Endocrine Society, San Antonio, Texas, 1992.
65. Lechan, RM, Kakucska I, Rondeel J, Seiler CM, Emerson CH: Regulation of thyrotropin-releasing hormone (TRH) biosynthesis in nonthyroidal illness. 74th Annual Meeting of The Endocrine Society, San Antonio, Texas, 1992.
66. Toni R, Mosca S, Ruggeri F, Lechan RM, Lazar M, Vezzadini P, Selective regulation by thyroid hormone of vasoactive intestinal polypeptide (VIP) in forebrain-neurohypophysial pathways: Neuroendocrine basis for the

- syndrome of inappropriate secretion of antidiuretic hormone in hypothyroidism, Italian Society of Endocrinology, 1993.
67. Kakucska I, Qi Y, Clark BD, Lechan RM, Activation of hypothalamic CRH neurons by endotoxin is mediated by central IL-1, 75th Annual Meeting of The Endocrine Society, Las Vegas, Nevada, 1993
 68. Lechan RM, Qi Y, Schwartz HL, Oppenheimer JH, Berrodin TJ, Davis KD, Thyroid hormone receptor beta 2-like immunoreactivity in rat brain, 75th Annual Meeting of The Endocrine Society, Las Vegas, Nevada, 1993
 69. Lechan RM, Qi Y, Jackson IMD, Hahdavi V, Thyroid hormone receptor isoforms are present in pro-thyrotropin-releasing hormone (TRH) neurons of the hypothalamic paraventricular nucleus, 76th Annual Meeting of The Endocrine Society, Anaheim, CA, 1994.
 70. Sugawara A, Yen PM, Lechan RM, Qi Y, Chin WW, Isoform-specific anti-retinoid X receptor antibodies demonstrate differential retinoid X receptor protein expression in rat brain and pituitary, 76th Annual Meeting of The Endocrine Society, Anaheim, CA 1994.
 71. Toni R, Mosca S, Jackson IMD, Lechan RM, Vezzadini P, Immunocytochemical distribution of the thyrotropin-releasing hormone (TRH) prohormone (pro-TRH) and its N-terminal peptides in the rat subfornical organ, European Congress of Endocrinology, 1994.
 72. Romero LI, Kakucska I, Lechan RM, Reichlin S, Interleukin-6 is secreted from the brain after intracerebroventricular injection of interleukin 1b in the rat. 77th Annual Meeting of The Endocrine Society, Washington D.C., 1995
 73. Stevenin BS, Legradi G, Lee SL, Lechan RM, CREB activates TRH gene transcription and colocalizes with CBP in TRH neurons of the hypothalamic paraventricular nucleus. 77th Annual Meeting of The Endocrine Society, Washington DC, 1995.
 74. Legradi G, Shioda S, Lechan RM, Arimura, Immunohistochemical localization of pituitary adenylate cyclase-activating polypeptide (PACAP) in catecholamine neurons of the brainstem, 2nd International Symposium on VIP, PACAP, and Related Peptides, New Orleans, LA, 1995.
 75. Chattopadhyay N, Legradi G, Lechan RM, Vassilev PM, Ye CP, Brown EM, Potential role of extracellular calcium-sensing receptor (CaR) in the induction of long term potentiation (LTP) in rat hippocampus, 10th International Congress of Endocrinology, San Francisco, CA, 1996.
 76. Legradi G, Rand WM, Hitz S, Nillni EA, Jackson IMD, Lechan RM, Opiate withdrawal increases proTRH-derived peptides in the ventrolateral

- column of the midbrain periaqueductal gray, 10th International Congress of Endocrinology, San Francisco, CA, 1996.
77. Legradi G, Hannibal J, Lechan RM, Pituitary adenylyate cyclase-activating polypeptide and thyrotropin-releasing hormone colocalizes in neurons of the rat hypothalamus, The Society for Neuroscience, 1996.
 78. Legradi G, Holzer D, Hitz S, Lechan RM, Glucocorticoids inhibit phosphorylation of CREB in hypothalamic CRH neurons, 10th International Congress of Endocrinology, San Francisco, CA, 1996.
 79. Toni R, Briganti F, Lechan RM, Modular organization of TRH- and SRIF-immunoreactive (IR) neurons and NPY-IR fibers in the paraventricular nucleus of the rat hypothalamus, Italian Society of Anatomy, 1996.
 80. Tu HM, Salvatore D, Bartha T, Legradi G, Kim S-W, Larsen PR, Lechan RM, Thyroid hormone-dependent transcriptional regulation of type 2 thyroxine (T₄) deiodinase (D₂) in the hypothalamus is localized to tanycytes. 79th Annual Meeting of The Endocrine Society, Minneapolis, MN, 1997.
 81. Legradi G, Ahima RS, Emerson CH, Flier JS, Lechan RM, Leptin prevents fasting-induced suppression of thyrotropin-releasing hormone (TRH) in neurons of the hypothalamic paraventricular nucleus, 79th Annual Meeting of The Endocrine Society, Minneapolis, MN, 1997.
 82. Luo L-G, Lee SL, Lechan RM, Jackson IMD, TRH gene expression is important for the survival of cultured hypothalamic neurons: the effect of an antisense TRH adenovirus construct, 79th Annual Meeting of The Endocrine Society, Minneapolis, MN, 1997.
 83. Lechan RM, Legradi G, The arcuate nucleus is a major source of NPY-fibers innervating TRH neurons in the PVN, The Annual Meeting, Society of Neuroscience, New Orleans, LA, 1997.
 79. Legradi G, Hannibal J, Tatro JB, Lechan RM, Nerve fibers containing immunoreactivity for pituitary adenylyate cyclase-activating polypeptide innervate neuroendocrine cell groups in the rat hypothalamus, The Annual Meeting, Society of Neuroscience, New Orleans, LA, 1997.
 80. Luo L-G, Lee SL, Lechan RM, Jian J-H, Jackson IMD, ProTRH expression is critical for hypothalamic neuronal survival: the mechanism of apoptosis, Annual Meeting, Society for Neuroscience, Los Angeles, CA, 1998.
 81. Legradi G, Lechan RM, Pituitary adenylyate cyclase-activating polypeptide (PACAP)-immunoreactive nerve fibers in the rat amygdala colocalize with calcitonin gene-related peptide (CGRP) and may share a common origin from the parabrachial nucleus, Annual Meeting, Society for Neuroscience, Los Angeles, CA, 1998.

82. Legradi G, Ahima RS, Emerson CH, Flier JS, Lechan RM, Arcuate nucleus ablation prevents fasting-induced suppression of proTRH mRNA in the hypothalamic paraventricular nucleus, 80th Annual Meeting of The Endocrine Society, New Orleans, LA, 1998.
83. Mihaly E, Fekete Cs, Liposits Zs, Stopa EG, Lechan RM, Hypophysiotropic thyrotropin-releasing hormone-synthesizing neurons of the human hypothalamus are innervated by axons containing neuropeptide Y and agouti-related protein, Annual Meeting, Society for Neuroscience, Miami Beach, FL, 1999.
84. Fekete Cs, Legradi G, Mihaly E, Lechan RM, Dual innervation of thyrotropin-releasing hormone (TRH)-producing neurons in the hypothalamic paraventricular nucleus (PVN) by alpha-melanocyte stimulating hormone (a-MSH) and agouti-related protein (AGRP)-immunoreactive axons, 81st Annual Meeting of The Endocrine Society, San Diego CA, 1999.
85. Legradi G, Lechan RM, Thyrotropin-releasing hormone (TRH) neurons in the hypothalamic paraventricular nucleus are innervated by agouti-related protein (AGRP) containing nerve terminals, 81st Annual Meeting of The Endocrine Society, San Diego CA, 1999.
86. Srivatsa S, Lechan RM, Diagnosis of non-Hodgkins lymphoma during treatment of acromegaly, Legradi G, Ahima RS, Emerson CH, Flier JS, Lechan RM, Arcuate nucleus ablation prevents fasting-induced suppression of proTRH mRNA in the hypothalamic paraventricular nucleus, 82nd Annual Meeting of The Endocrine Society, Toronto, 2000.
87. Fekete CS, Luo L-G, Mao Q, Kuhar MJ, Jackson IMD, Lechan, CART is contained in axon terminals innervating thyrotropin-releasing hormone (TRH) neurons in the hypothalamic paraventricular nucleus (PVN) and increases TRH secretion, 82nd Annual Meeting of The Endocrine Society, Toronto, 2000.
88. Mihaly E, Fekete Cs, Legradi G, Lechan RM, Hypothalamic dorsomedial nucleus (DMN) neurons innervate thyrotropin-releasing hormone (TRH)-synthesizing neurons in the paraventricular nucleus (PVN), 82nd Annual Meeting of The Endocrine Society, Toronto, 2000.
89. Legradi G, Lechan RM, Central administration of pituitary adenylate cyclase activating polypeptide (PSCAP) activates HPA axis in rats, Annual Meeting, Society for Neuroscience, New Orleans, LA, 2000.
90. Mihaly E, Legradi G, Fekete C, Lechan RM, Projections of opiate withdrawal-sensitive prothyrotropin-releasing hormone-containing neurons in the ventrolateral periaqueductal gray, Annual Meeting,

- Society for Neuroscience, New Orleans, LA, 2000.
91. Sarkar S, Legradi G, Lechan RM, Intracerebroventricular administration of α -MSH increases phosphorylation of CREB in proTRH neurons of the hypothalamic paraventricular nucleus, 83rd Annual Meeting of The Endocrine Society, Denver, 2001.
 92. Fekete C, Kelly J, Mihaly E, Sarkar S, Rand WM, Emerson CH, Lechan RM, Neuropeptide Y (NPY) has a central inhibitory action on the hypothalamic-pituitary-thyroid axis, 83rd Annual Meeting of The Endocrine Society, Denver 2001.
 93. Lechan, RM, Neuroendocrine mechanisms for the action of leptin on the hypothalamic-pituitary-thyroid axis, The Endocrine Brain Symposium, Conference of the Hungarian Neuroscience Association, Szeged, Hungary, 2001.
 94. Cs. Fekete, Zs. Liposits, R.M. Lechan, Origin of the Cocaine- and Amphetamine-Regulated Transcript (CART)-Immunoreactive Innervation of the Hypothalamic Paraventricular Nucleus, 30th Annual Meeting, Society for Neuroscience, New Orleans, LA, 2001
 95. Lechan, RM and Fekete C, Neuroendocrine Control of the Thyroid Axis in Fed and Fasted States, University of Parma, Parma, Italy, 5/24/2001.
 96. Csaba Fekete, Sumit Sarkar, William M. Rand, Charles H. Emerson, Annette Beck-Sickinger and Ronald M. Lechan: Effects of Highly Selective Neuropeptide Y Y1, Y2 and Y5 Receptor Agonists on the Hypothalamic-Pituitary-Thyroid (HPT) Axis, 84th Annual Meeting of The Endocrine Society, San Francisco, CA, 2002.
 97. Sumit Sarkar and Ronald M. Lechan, Central Administration of Neuropeptide Y (NPY) Reduces α -MSH-Induced Phosphorylation of CREB in proTRH Neurons in the Hypothalamic Paraventricular Nucleus (PVN), 84th Annual Meeting of The Endocrine Society, San Francisco, CA, 2002.
 98. Emese Mihaly, Gabor Legradi, Csaba Fekete, Ronald M. Lechan and Zsolt Liposits, Corticotropin Releasing Hormone (CRH)-Synthesizing Neurons of the Rat and Human Hypothalamus Receive Neuropeptide Y-Immunoreactive Innervation from Neurons Residing Primarily Outside of the Arcuate/Infundibular Nucleus, 84th Annual Meeting of The Endocrine Society, San Francisco, CA, 2002.
 99. Sumit Sarkar, Gábor Légrádi Csaba Fekete and Ronald M Lechan Glucagon like peptide-1 (7-36) amide (GLP-1) nerve terminals densely innervate corticotropin-releasing hormone (CRH) neurons in the hypothalamic paraventricular nucleus, 84th Annual Meeting of The Endocrine Society, San Francisco, CA, 2002.
 100. Anika Agarwal, Lisa M. Halvorson, Ronald M. Lechan, Gabor Legradi,

- Pituitary Adenylate Cyclase-Activating Polypeptide (PACAP) Stimulates Human Corticotropin-Releasing Hormone (CRH) Gene Promoter Activity via a PKA-Dependent Pathway, 84th Annual Meeting of The Endocrine Society, San Francisco, CA, 2002.
101. Stephanos Raptis, Csaba Fekete, György M. Nagy, Sumit Sarkar, Ronald M. Lechan, CART Co-contained in TRH Neurons of the Hypothalamic Paraventricular Nucleus (PVN) Modulates TRH-Induced Prolactin Secretion, 85th Annual Meeting of The Endocrine Society, Philadelphia, PA, 2003.
 102. Csaba Fekete, John W. Harney, Jose Miguel Dora, Balázs Gereben, Antonio Bianco Sumit Sarkar, William Rand, Charles Emerson, and Ronald M. Lechan, Type 2 Iodothyronine Deiodinase (D2) in the Mediobasal Hypothalamus May Contribute to Development of the Nonthyroidal Illness Syndrome Induced by Bacterial Lipopolysaccharide (LPS), 85th Annual Meeting of The Endocrine Society, Philadelphia, PA, 2003.
 103. Wittmann G, Liposits Zs, Lechan RM, Fekete, Origin of cocaine-and amphetamine-regulated transcript (CART)-containing axons innervating hypophysiotropic corticotropin-releasing hormone (CRH)-synthesizing neurons in the rat, 33rd Annual Meeting, Society for Neuroscience, San Diego, CA, 2003
 104. Fekete C, Mergl Z, Liposits Zs, Lechan RM, Makara G, Vasopressin is not responsible for fasting-induced elevation in serum corticosterone, 33rd Annual Meeting, Society for Neuroscience, San Diego, CA, 2003
 105. Fekete C, Sánchez E, Singru PS and Lechan RM, Cocaine- and amphetamine-regulated transcript (CART) may contribute to LPS induced regulation of energy homeostasis, 34th Annual Meeting, Society for Neuroscience, Sand Diego, CA, 2004
 106. Singru PS, Sánchez E, Fekete C and Lechan RM, Refeeding-Induced cFos Activation of Discrete Neurons in the Hypothalamic Paraventricular (PVN) and Dorsomedial (DMN) Nuclei is Dependent Upon Melanocortin Signaling, 34th Annual Meeting, Society for Neuroscience, 2004.
 107. Wittmann G, Singru PS, Fuzesi T, Liposits Z, Lechan RM, Fekete C, Delineation of projection pathways from TRH neurons in the anterior parvocellular subdivision of the hypothalamic paraventricular nucleus (PVN), 34th Annual Meeting, Society for Neuroscience, San Diego, CA, 2004.
 108. Singru PS, Fekete C, Lechan RM, Participation of the dorsomedial nucleus (DMN) in regulation of the hypothalamic paraventricular nucleus (PVN) by the melanocortin signaling system, 87th Annual Meeting of The Endocrine Society, San Diego, CA, 2005

109. Fekete C, Sarkar S, Christoffolete MA, Bianco AC, Emerson CH, Lechan RM, Bacterial lipopolysaccharide (LPS)-induced type 2 iodothyronine deiodinase (D2) activation in the mediobasal hypothalamus (MBH) is not dependent upon circulating levels of thyroid hormone, 87th Annual Meeting of The Endocrine Society, San Diego, CA, 2005
110. Fuzesi T, Wittmann G, Liposits Z, Lechan RM, Medullary adrenergic neurons contribute to the neuropeptide Y-immunoreactive innervation of hypophysiotropic corticotropin-releasing hormone synthesizing neurons in the rat, 87th Annual Meeting of The Endocrine Society, San Diego, CA, 2005
111. Wittmann G, Singru PS, Fuzesi T, Liposits Z, Lechan RM, Fekete C, Delineation of projection pathways from TRH neurons in the anterior paravocellular subdivision of the hypothalamic paraventricular nucleus, Abstracts of the 35th Annual Meeting, Society for Neuroscience, Washington, D.C., 2005
112. Singru PS, Sanchez E, Fekete C, Lechan RM, Hypothalamic paraventricular (PVN) and dorsomedial (DMN) nuclei are dependent upon melanocortin signaling, 87th Annual Meeting of The Endocrine Society, San Diego, CA, 2005
113. Fekete C, Sanchez E, Singru PS, Lechan RM, Cocaine-and amphetamine-regulated transcript may contribute to LPS-induced regulation of energy homeostasis, 87th Annual Meeting of The Endocrine Society, San Diego, CA, 2005
114. Sanchez E, Singru PS, Fekete C, Lechan RM, Role of corticosterone in bacterial lipopolysaccharide (LPS)-induced type 2 iodothyronine deiodinase (D2) activation in the mediobasal hypothalamus (MBH), 88th Annual Meeting of The Endocrine Society, Boston, MA 2006.
115. Willmann G, Marks D, Liposits Zs, Cone R, Lechan RM, Fekete C, Morphological Evidence Suggesting a Role of Agouti-Related Protein as an Inverse Agonist at Melanocortin 4 Receptors in the Hypothalamic PVN, Abstracts of the 36th Annual Meeting, Society for Neuroscience, Atlanta, GA, 2006.
116. Dandekar MP, Singru P, Kokare DM, Lechan RM, Thim L, Clausen JT, Subhedar NK, Importance of Cocaine-and Amphetamine-Regulated Transcript (CARTp) in the Hypothalamus and Amygdala in Response to anxiogenic responses induced by ethanol withdrawal, 2006.
117. Lechan RM, Fekete C, Arcuate to Paraventricular Nucleus Signals and Control of the Hypothalamic-Pituitary-Thyroid Axis, Keystone Symposia, Obesity: Peripheral and Central Pathways Regulating Energy Homeostasis, Keystone, CO, January 14-19, 2007.

118. Sanchez E, Singru P, Fekete C, Lechan RM, Importance of NF- κ B signaling in activation of type 2 iodothyronine deiodinase (D2) in the mediobasal hypothalamus after lipopolisaccharide (LPS) administration, 89th Annual Meeting of The Endocrine Society, Toronto, Canada, 2007.
119. Fekete C, Singru, PS, Sanchez E, Lechan RM, Neuropeptide Y (NPY) neurons of the arcuate nucleus are inhibited by peripheral administration of oleylethanolamide (OEA) in fasted rats, 89th Annual Meeting of The Endocrine Society, Toronto, Canada, 2007.
120. Sanchez E, Singru P, Fekete C, Lechan RM, Differential effects of melanocortin signaling on PVN neurons involved in satiety and energy expenditure, 89th Annual Meeting of The Endocrine Society, Toronto, Canada, 2007.
121. Amori RE, Neff L, Tischler A, Schwaitzberg S, Lechan RM, Aldosterone and estrone co-secretion from ACTH-independent bilateral macronodular adrenal hyperplasia (AIMAH), 89th Annual Meeting of The Endocrine Society, Toronto, Canada, 2007.
122. Singru PS, Sanchez E, Fekete F, Lechan RM, Differential effects of melanocortin signaling on PVN neurons involved in satiety and energy homeostasis, 89th Annual Meeting of The Endocrine Society, Toronto, Canada, 2007.
123. Liposits Z, Lechan R, Fekete C, Processing of metabolic signals in the hypothalamus: the integrative role of the paraventricular nucleus, European Congress of Endocrinology, 2007.
124. Deli L, Wittmann G, Lechan RM, Wattanabe M, Liposits Z, Fekete C, Type 1 cannabinoid receptor (CB1) is present in axons innervating hypophysiotropic thyrotropin-releasing hormone-synthesizing neurons in the hypothalamic paraventricular nucleus (PVN), Abstracts of the 37th Annual Meeting, Society for Neuroscience, 2007.
125. Singru PS, Wittmann G, Sánchez E, Liposits Z, Fekete C, and Lechan RM Refeeding stimulates cFos expression in neuronal nitric oxide synthase (nNOS) and type 2 vesicular glutamate transporter (VGLUT2)-containing neurons in the hypothalamic paraventricular nucleus (PVN) and dorsomedial nucleus (DMN), 90th Annual Meeting of The Endocrine Society, San Francisco, CA, 2008.
126. Sánchez E, Singru PS, Fekete C and Lechan RM, Role of Tumor Necrosis Factor-alpha (TNF- α) in Type 2 Iodothyronine Deiodinase (D2) Activation in the Mediobasal Hypothalamus Following Lipopolysaccharide (LPS) Administration, 90th Annual Meeting of The Endocrine Society, San Francisco, CA, 2008.
127. Füzesi T, Wittmann G, Lechan RM, Liposits Z, Fekete C, Noradrenergic

- innervation of hypophysiotropic thyrotropin-releasing hormone-synthesizing neurons in rats, 90th Annual Meeting of The Endocrine Society, San Francisco, CA, 2008.
128. Füzesi T, Wittmann G, Liposits Z, Lechan RM, Csaba Fekete, CART is expressed in refeeding activated neurons of the ventral parvocellular part of the hypothalamic paraventricular nucleus, Abstracts of the 38th Annual Meeting, Society for Neuroscience, 2008.
129. Gábor Wittmann, Tamás Füzesi, Zsolt Liposits, Ronald M. Lechan, Csaba Fekete, Urocortin 3 is expressed in a subpopulation of thyrotropin-releasing hormone (TRH)-producing neurons that may be involved in the regulation of food intake, 91st Annual Meeting of The Endocrine Society, Washington, DC, 2009.
130. Csaba Fekete, Praful S. Singru, Gábor Wittmann, Walid El-Bermani and Ronald M. Lechan, The vagus nerve is not involved in activation of melanocortin signaling during refeeding, 91st Annual Meeting of The Endocrine Society, Washington, DC, 2009.
131. Gábor Wittmann, Praful S. Singru, Shira Simcha Nouriel, P.Reed Larsen, John Harney, Ronald M. Lechan, Novel expression of type 2 deiodinase along the blood-brain barrier during endotoxin challenge, 92nd Annual Meeting of The Endocrine Society, San Diego, CA, 2010.
132. Praful S. Singru, Gábor Wittmann, Csaba Fekete and Ronald M. Lechan, Refeeding-activated neurons in the hypothalamic paraventricular nucleus (PVN) mediate effects of melanocortin signaling in the nucleus tractus solitarius (NTS), 92nd Annual Meeting of The Endocrine Society, San Diego, CA, 2010.
133. Zsolt Liposits, Ronald Lechan and Csaba Fekete, Chemical neuroanatomy of hypothalamic pathways involved in energy balance, Abstracts of the 7th International Congress of Neuroendocrinology, Rouen, France, 2010.
134. Wittmann G, Menyhért j, Sánchez E, Singu P, Füzesi T, Molnár V, Liposits Z, Gereben B, Fekete C, Maguire J, Lechan, RM, Evidence for GABAergic inhibition of hypophysiotropic TRH neurons using a transgenic TRH-Cre mouse model, 93rd Annual Meeting of The Endocrine Society, Boston, MA, 2011.
135. Iyer LK, Ainsley J, Fekete C, Lechan RM, Digital expression profiling of tanycytes suggest molecular mechanisms for their biological function, 93rd Annual Meeting of The Endocrine Society, Boston, MA, 2011.
136. Györgyi Zséli, Tamás Füzesi, Ronald M. Lechan, Csaba Fekete, Activation of anorexogenic POMC neurons during refeeding is independent of brainstem inputs, Abstracts of the 41st Annual Meeting, Society for Neuroscience, Washington DC, 2011.
137. Wittmann G, Lechan, RM, Identification of forebrain glutamatergic and GABAergic inputs to the arcuate nucleus, Abstracts of the 41st Annual Meeting, Society for Neuroscience, Washington DC, 2011.

138. Fekete C, Lechan RM, Central pathways regulating the hypothalamic-pituitary-thyroid axis in the nonthyroidal illness syndrome, Abstracts of the Endocrine and Metabolism Workshop, Budapest, Hungary, March 22-24, 2012.
139. Kádár A, Lechan RM, Fekete C, Fasting-induced alterations in the α -MSH- and AGRP innervation of thyrotropin-releasing hormone (TRH)-synthesizing neurons in the PVN, 94th Annual Meeting of The Endocrine Society, Houston, Texas, 2012.
140. Mitri J and Lechan RM, Cushing's Syndrome Induced by Ocular Dexamethasone, 94th Annual Meeting of The Endocrine Society, Houston, Texas, 2012.
141. Wittmann G and Lechan RM, Dissociation between LPS-Induced Changes in D2 and OATP1c1 Expression in the Brain Suggests Localized T3 Action in the Meningeal Compartment, 94th Annual Meeting of The Endocrine Society, Houston, Texas, 2012.
142. Tóth M, Wittmann G, Egri P, Gerebe B, Fekete C, and Lechan RM, Saturated Fatty Acids and High Fat Diet Feeding Increase Type 2 Deiodinase Activity in the Mediobasal Hypothalamus, 94th Annual Meeting of The Endocrine Society, Houston, Texas, 2012.
143. Mohácsik, P, Kalló I, Vida B, Zeöld A, Bardóczy Zs, Farkas E, Kádár A, Zavacki AM, Arrojo e Drigo R, Dong L, Lechan RM, Bianco AC, Liposits A, Fekete C, and Gereben B, Monocarboxylate-transporter-8 and type 3 deiodinase in axon terminals of the median eminence allow system-specific regulation of T3-action in hypothalamic hypophysiotropic neurosecretory neurons, 94th Annual Meeting of The Endocrine Society, Houston, Texas, 2012.
144. Fekete C, Lechan RM, TRH and other factors of the PVN in the regulation of metabolic homeostasis, Annual Meeting of the European Neuroscience Association, 2012
145. Nahra R, Bogen S, Lechan RM, Spurious elevations in PTH may be secondary to heterophile antibodies, 95th Annual Meeting of The Endocrine Society, San Francisco, CA, 2013
146. Wittmann G, Larsen PR, Lechan RM, Species differences in the regulation of type 2 deiodinase expression in the brain by bacterial endotoxin, 95th Annual Meeting of The Endocrine Society, San Francisco, CA, 2013
147. Alzaman N, Shah S, Lechan RM, An unusual case of adrenal insufficiency associated with valproic acid administration, 95th Annual Meeting of The Endocrine Society, San Francisco, CA, 2013
148. Pacak K, Jochmanova I, Prodanov T, Yang C, Merino M, Fojo T, Prchal JT, Tischler AS, Lechan RM, Zhuang Z, A new syndrome of paraganglioma and somatostatinoma associated with polycythemia, 95th Annual Meeting of The Endocrine Society, San Francisco, CA, 2013
149. Vida B, Zseli G, Lechan RM, Fekete C, Neuronal connections of the central amygdaloid nucleus with refeeding-activated brain areas, 43rd Annual Meeting, Society for Neuroscience, 2013

150. Aseli G, Vida B, Lechan RM, Fekete C, Connections of the parabrachial nucleus with refeeding activated brain areas, 43rd Annual Meeting, Society for Neuroscience, 2013

Speaking Engagements 2004-2012

- 9/30/04 American Thyroid Association, 76th Annual Meeting, Vancouver, British Columbia, Central Mechanisms for the Regulation of the Hypothalamic-Pituitary-Thyroid Axis: Implications for the Nonthyroidal Illness Syndrome
- 10/25/04 Department of Human Anatomy, University of Bologna, Bologna, Italy, Update on Thyrotropin-Releasing Hormone (TRH): Mechanisms of Central Regulation of the Hypothalamis-Pituitary-Thyroid Axis in Association with Fasting and Endotoxin Administration
- 10/26/04 Department of Anatomy, University of Parma, Parma, Italy, Functional Anatomy of the Hypothalamus and Pituitary
- 12/10/04 Medical Grand Rounds, Tufts-New England Medical Center, Sugar, Fat and Steroids
- 3/08/05 Endocrinology Grand Rounds, Tufts-New England Medical Center, Mechanisms for the Nonthyroidal Illness syndrome
- 3/30/05 Surgical Grand Rounds, Tufts-New England Medical Center, Update on Pheochromocytoma
- 4/08/05 15th Annual Memorial Sidney H. Inghar lecture, Beth Israel Deaconess Hospital, Boston, MA
- 8/30/2005 24th International Summer School of Brain Research, Amsterdam, The Netherlands, The TRH Neuron: Role in Energy Homeostasis
- 10/20/05, TRH and Energy Homeostasis, Visiting Professor Research Lecture, Department of Medicine, University of Parma, Parma Italy.
- 10/20/05, Update on Cushing's Syndrome, Visiting Professor Clinical Lecture, Department of Medicine, University of Parma, Parma, Italy.
- 10/21/05, Mechanisms for Regulation of Thyroid Function, Symposium on the Thyroid in History, Art and Medicine, Department of Archeology, University of Bologna at Ravenna, Ravenna, Italy
- 11/21/05, TRH and Energy Homeostasis, GRASP Scientific Advisory Committee Meeting, Tufts-New England Medical Center, Boston, MA
- 12/16/05, Medical Grand Rounds, Tufts-New England Medical Center, Pheochromocytoma
- 6/26/06, 88th Annual Meeting of The Endocrine Society, Boston, MA, Symposia, Thyroid Hormone and Hypothalamic Function; Lessons from Studies on Central Regulation of the Hypothalamic-Pituitary-Thyroid Axis.
- 10/16/06, University of Bologna, Bologna, Italy, Thyroid Hormone and Hypothalamic Function: Lessons from Studies on the Hypothalamic-Pituitary-Thyroid Axis
- 10/17/06, University of Parma, Parma, Italy, Functional Anatomy of the Hypothalamus and Pituitary with Applications to Clinical Problem Solving

10/18/06, University of Pisa, Pisa, Italy, Central Mechanisms for the Nonthyroidal Illness Syndrome.

01/16/07 Keynote Speaker, Keystone Symposium, Arcuate to PVN Connections and Regulation of Thyroid Function.

3/23/07 Keynote Speaker, New England Thyroid Association Annual Meeting, Waltham, MA, Central Control of Thyroid Function: Clinical and Physiological Implications.

6/23/07 VHL Alliance Annual Meeting, John Hancock Hotel, Boston, MA, Medical Management of Pheochromocytoma.

6/26/07 Endocrine Grand Rounds, Massachusetts General Hospital

10/7/07 Symposium Speaker, 78th Annual Meeting of the American Thyroid Association, Central Mechanisms for Thyroid Hormone Regulation by Deiodinase

1/5/08 University of Trieste, Trieste, Italy, Functional Anatomy of the Hypothalamic-Pituitary Axis with Clinical Case Discussions

1/21/08 University of Bologna, Bologna, Italy, Update on Mechanisms for Central Regulation of the Hypothalamic-Pituitary-Thyroid Axis.

2/11/08 University of Chicago, Central Regulation of the Hypothalamic-Pituitary-Thyroid Axis: Implications for the Nonthyroidal Illness Syndrome

6/05/08 Congress of the Hungarian Society of Endocrinology and Metabolism, Eger, Hungary, New Concepts in Thyroidology: From Bench to Bedside, Role of Deiodinases in the Central Regulation of the Thyroid Axis

12/17/08 Brigham and Women's Hospital, Endocrine Grand Rounds

5/19/09 University of Ferrara, Ferrara, Italy, Central Mechanisms for the Regulation of the Hypothalamic-Pituitary-Thyroid Axis

5/20/09 Rizzoli Institute, Bologna, Italy, Central Mechanisms for the Regulation of the Hypothalamic-Pituitary-Thyroid Axis; Implications for the Nonthyroidal Illness Syndrome

5/20/09 Italian Academy of Sciences, Bologna, Italy, The Dilemma of the Nonthyroidal Illness Syndrome: To Treat or Not To Treat

5/21/09 Mantova Hospital, Mantova, Italy, The Dilemma of the Nonthyroidal Illness Syndrome: To Treat or Not To Treat

4/08/11 Beth Israel Hospital, Boston, MA, Endocrinology Grand Rounds, Lessons Learned from Studies on the Hypophysiotropic TRH Neuronal System

4/07/12 MetroWest Medical Center, Medical Management of Pituitary Adenomas

5/29/12 Tufts Medical Center, GME Grand Rounds, Pituitary Adenomas

5/07/13: Lablinks Symposia on Neural Control of Appetite, Functional Characterization and Heterogeneity of Melanocortin-Producing Neurons in the Hypothalamic Arcuate Nucleus, Boston, MA