CURRICULUM VITAE April, 2015

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
- 1977National 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 APPC	DINTMENTS
1981	Assistant Physician New England Medical Center Hospitals Boston, Massachusetts
1987 -	Physician Tufts-New England Medical Center Boston, Massachusetts
1996-	Acting Chief, Division of Endocrinology, Diabetes, and Metabolism
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	ufts Medical Center, Boston, Massachusetts Program Director Division of Endocrinology, Diabetes and Metabolism
2000 -	Director, Dr. Gerald J. and Dorothy R. Friedman Program in Diabetes & Metabolism
2006	Chief, Division of Endocrinology, Diabetes and Metabolism Tufts Medical Center, Boston, Massachusetts
AWARDS AND H	IONORS
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	15 th Annual Sidney H. Ingbar Memorial Lecturer, Beth Israel Deaconess Hospital, 4/08/05 Invited Participant, 24 th 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 Boston Magazine 2012 list of Top Doctors
2013	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).
2014	Boston Magazine 2014 list of Top Doctors

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
	GME Internal Review Committee, Division of Nephrology
	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
2012	Ad Hoc Member, Promotion and Tenure Committee, Tufts
	University School of Medicine
2014 -	Ambulatory EHR Physician Advisory Group, Tufts Medical
Center	
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
1999-2004	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
2007	Co-Chair, First Annual Gerald J. Friedman Fellows Symposium,
	New
2012	York, NY
2012	Co-Chair, Geraid J. Friedman Fellows Symposium, NY
2014	Organizing Committee and Co-Chair, Friedman Fellows Ancillary
	Symposium at the American Diabetes Association annual
	Organizing Committee Annual Masting of The Dituitery Society
	External Export DbD Brogram in Molecular Medicine University
	of
	Parma School of Medicine
	Member of the International FIPA Consortium to study
familial	Member of the international first consolition to study
	pituitary adenomas
TEACHING RESI	PONSIBILITIES
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; Universisty of Bologna
	Medical School, Bologna, Italy, University of Parma Medical School,
	Parma, Italy, Hypothalamic Anatomy

1994 - Preclinical Selective Program Tufts University School of Medicine
 2007 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

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

PROFESSIONAL SOCIETIES

1976 1981	Century Club of the University of Vermont College of Medicine
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 Pituitary Society
2013 (PRESSOR)	Pheochromocytoma Research Support Organization

COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES

- 1991Program Committee, The Endocrine Society
- 1992 Founding Member, The Pituitary Society

RESEARCH SUPPORT

Present

- a. NIDDK Tanycytes and Hypothalamic Inflammation Associated with Obesity Principal Investigator: Ronald M. Lechan, M.D., Ph.D. 2015-2017
 - b. Dr. Gerald J, and Dorothy R. Friedman New York Foundation for

Μ

Medical Research Principal Investigator: Ronald M. Lechan, M.D., Ph.D. Interim Support to Study Hypothalamic Neuroendocrine Regulation 2012 – Principal Investigator: Ronald M. Lechan, M.D., Ph.D.

- c. Lilly Pharmaceutical, Inc. The Global Hypopituitary Control and Complications Study 1998 -Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
- d. Tercica, Inc.
 Somatuline Depot Injection for Actomegaly(SODA) Study
 2009 Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
- e. Novartis Pharmaceuticals Corporation
 Pasireotide EAP study (Seascape)
 2013 –
 Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
- f. Dr. Gerald J.and Dorothy R. Friedman New York Foundation for Support for Fellowship training in Endocrinology, Diabetes and Metabolism Medical Research 2000 -Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
- g. NIH, TCGA Trial (Study of the Pathophysiology and Molecular Biology of Pheochromocytoma)
 2013 -Principal Investigators: Ronald M. Lechan, M.D., PhD., Arthur Tischler, M.D.
- h. Novartis Pharmaceuticals Corporation (Lechan, PI)

An ACromegaly, open-label, multi-CEnter, Safety monitoring program for treating patients with SOM230 (pasireotide) LAR who have need to receive medical therapy (ACCESS) 2013 – Principal Investigator: Ronald M. Lechan, M.D., Ph.D.

Past

- Role of ProTRH-derived Peptides in the Midbrain PAG a. 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. Melanocortin Signaling in Anorexia c. Tufts-New England Medical Center Research Fund 6/01/02 - 5/31/03 Principal Investigator: Ronald M. Lechan, M.D., Ph.D. CART and the Hypothalamic-Pituitary-Thyroid Axis d. NIH 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. TRH and Energy Homeostasis e. 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 Oleylethanolamine 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
 NIDDK R21 DK078998
 05/10/09 04/30/12
 Principal Investigator: Ronald M. Lechan, M.D., Ph.D.
- 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

а.	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.
с.	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.	TRH/Histamine Interactions in Appetite and Metabolic Control 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.

f. Characterization of a Satiety Circuitry in the CNS 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 thyrotropinreleasing 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, a-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

- demonstrated type 2 iodothyronine deiodinase in the meninges of endotoxin-treated animals, suggesting a mechanism for inflammatory regulation in the CNS

- proposed a new mechanism for feedback regulation of the hypothalamic-pituitarythyroid axis *via* thyroid hormone-induced upregulation of pyroglytamyl peptidase II in tanycytes lining the third ventricle and degradation of TRH from TRH-containing axon terminals.

- demonstrated expression of type 2 deiodinase in meninges and regulation by endotoxin

- identified potential satiety regions in the hypothalamus including the ventral parvocellular subdivision of the hypothalamic paraventricular nucleus and their projections to brainstem feeding centers

- demonstrated importance of CART as a prolactin inhibitory factor

- demonstrated two subtypes (glutamatergic and GABAergic) of POMC-producing neurons in the hypothalamic arcuate nucleus

- demonstrated that tanycytes express the POMC gene and POMC precursor, raising possibility that tanycytes serve as progenitor cells for POMC-expressing neurons in the hypothalamic arcuate nucleus

- demonstrated that TRH densely innervates histamine neurons in the tuberomammillary nucleus, hypothesizing this may contribute to the regulation of appetite and thermogenesis

- 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, dopamineagonist resistant prolactinoma

- contributed to characterization of AIP mutations in families with familial pituitary adenomas

- contributed to the identification of a new syndrome of somatostatinoma,

pheochromocytoma and polycythemia and identification of a somatic mutation in HIF- 2α giving rise to this syndrome

- reported that patients with cardiac paragangliomas frequently have mutations in the SDHC gene

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 Endocrine Practice

PREVIOUS AND CURRENT TRAINEES

NAMECURRENT POSITIONMalcolm Low, MD, PhDProfessor 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. (deceased)
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
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
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, Northshore University Health System and University of Chicago
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, Tailand
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, Drexel University College of Medicine

Lisa Ceglia, MD	Assistant Professor, Tufts University School of Medicine
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, Cornerstone Endocrinology, High Point, North Carolina
Bindiya Magoon, MD	Private Practice
Esther Lee, MD	Summitt Medical Group, Morristown, New Jersey

Saud Alzahrani, MD	Private Practice, Lowell General Hospital
Rajaa Nahra, MD	Director of Clinical Research, CVMD, Global Medicines Development, AstraZenica
Naweed Alzaman, MD	Postdoctoral Fellow, Tufts Medical Center
Vorawan Ummaritchot, MD	Private Practice, Providence RI
Anthony Liberatore, MD	Postdoctoral Fellow, Tufts Medical Center
Anam Akmal, MD	Postdoctoral Fellow, Tufts Medical Center
Priscilla Villasmil, MD	Postdoctoral Fellow, Tufts Medical Center
lqra Javeed, 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 116:1663-165, 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 Thryotropin-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.
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- 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.
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- 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.
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- 63. Lechan RM, Kakucska I: Feedback regulation of the TRH gene expression in the hypothalamic paraventricular nucleus. Ciba Foundation Symposium, Budapest, Hungary, 1991.
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- 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 parventricular nucleus, 76th Annual Meeting of The Endocrine Society, Anaheim, CA, 1994.
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- 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) int he induction of long term potentiation (LTP) in rat hippocampus, 10th International Congress of Endocrinology, San Francisco, CA, 1996.
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column of the midbrain periaqueductal gray, 10th International Congress of Endocrinology, San Francisco, CA, 1996.

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- 79. Toni R, Briganti F, Lechan RM, Modular organization of TRH- and SRIFimmunoreactive (IR) neurons and NPY-IR fibers in the paraventricular nucleus of the rat hypothalamus, Italian Society of ANatomy, 1996.
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- 83. Lechan RM, Legradi G, The arcuate nucleus is a major source of NPYfibers 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 adenyulate 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 adenylate cyclas-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 Anageles, 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 agoutirelated 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) acrivates 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 a-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) ha 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 a-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 Legr · di, 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.

- 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 lodothyronine 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 projectionpathways 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 amphetamineregulated 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, LechanRM, 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-κB 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-a) in Type 2 lodothyronine 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

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innervation of hypophysiotropic thyrotropin-releasing hormonesynthesizing neurons in rats, 90th Annual Meeting of The Endocrine Society, San Francisco, CA, 2008.

- **128.** Füzesi T, Wittmann G, Liposits Z, Lechan RM, Csaba Feket, 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 thyrotropinreleasing 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 hypothalalmic 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 GABA-ergic 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 hypothalamicpituitary-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 systemspecific 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
- 151. Wittmann G, Mohacsik P, Gereben B, Lechan RM, Parallel regulation of thyroid hormone transporter MCT8 and OATP1c1 mRNAs in brain blood vessels during and after endotoxemia, ICE/ENDO 2014, Chicago.
- 152. Del Rivero, J, Zhuang A, Yang C, Prchal JT, Lechan RM, Tischler AS, Fojo T, Taieb D, Popovic V, Young J, Nambuba J, Adams KT, Jochmanova I, Merino M, Stratakis CA, Kebebew E, Pacak K, The NIH experience of seven somatic HIF2A patients presenting with multiple paragangliomas and duodenal somatostatinomas associated with polycythemia, ICE/ENDO 2014, Chicago, IL
- 153. WittmannG. Mohacsik P, Gereben B, Lechan RM, Lat 1 mRNA in brain blood vessels is regulated similarly to thyroid hormone transporters, OATP1c1 and MCT8, following lipopolysaccharide administration, 97th Annual Meeting of The Endocrine Society, San Diego, CA, 2015
- 154. Liberatore A J, Lechan RM, Hypopituitarism secondary to bilateral carotid-cavernous fistulas, 97th Annual Meeting of The Endocrine Society, San Diego, CA, 2015
- 155. Javeed I, Tsichler A, Lechan RMN, Presentation of a patient with an unusual composite pheochromocytoma-gangloneuroblastoma, 97th Annual Meeting of The Endocrine Society, San Diego, CA, 2015

Selected Regional and International Speaking Engagements 2004-2014

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

4/08/05 15th Annual Memorial Sidney H. Ingbar 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 Revenna, Ravenna, Italy

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

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

12/09/13: Boston Medical Center, Endocrinology Grand Rounds: Heterogeneity of Melanocortin Signaling Systems in the Central Nervous System