

CURRICULUM VITAE

ADDRESS:

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ACADEMIC TRAINING

1963 - B.A. Colgate University

1967 - M.D. Albert Einstein College of Medicine
Medical Licensure: New York State #136868-1

TRAINEESHIP

1967-1969 Intern and Junior Resident in Pediatrics
Massachusetts General Hospital

1971-1972 Senior Resident in Medicine
Children's Hospital Medical Center, Boston

1972-1974 NIH Clinical and Research Fellow in
Pediatric Endocrinology-Metabolism
Massachusetts General Hospital

1975-1978 Research Associate, Department of Nutrition and Food Science
Massachusetts Institute of Technology

1978-1981 Rockefeller Scholar in Clinical Science
Rockefeller University

1985-1989 Established Investigator
American Heart Association

BOARD QUALIFICATIONS

Certification: National Board of Medical Examiners
American Board of Pediatrics #016915 (1974)

Board Eligible: American Board of Pediatric Endocrinology

MILITARY SERVICE

Major, United States Army Medical Corps (1969-1971)

PROFESSIONAL ORGANIZATIONS AND SOCIETIES

Fellow, American Academy of Pediatrics
Lawson Wilkins Pediatric Endocrine Society
American Institute of Nutrition
American Society for Clinical Nutrition
Harvey Society
Institute of Medicine, National Academy of Sciences

ACADEMIC APPOINTMENTS

1972-1974	Instructor in Pediatrics Massachusetts General Hospital Harvard University Medical School
1974-1978	Assistant Professor of Pediatrics Massachusetts General Hospital Harvard University Medical School
1978-1984	Assistant Professor Rockefeller University
1982-1993	Associate Professor of Clinical Pediatrics Cornell University Medical College
1985-1997	Associate Professor Rockefeller University
1992-1997	Head of Laboratory Rockefeller University
1993-1997	Professor of Pediatrics Cornell University Medical College

- 1997- Professor of Pediatrics and Medicine
Head, Division of Molecular Genetics
Co-Director, Naomi Berrie Diabetes Center
College of Physicians and Surgeons
Columbia University
- 2008- Christopher J. Murphy Memorial Professor of Diabetes Research
Columbia University

HOSPITAL APPOINTMENTS

- 1972-1978 Assistant in Medicine
Children's Hospital Medical Center, Boston
- 1972-1973 Assistant in Pediatrics
Massachusetts General Hospital
- 1972-1975 Assistant Director of Pediatrics
Cambridge Hospital, Cambridge, Massachusetts
- 1974-1975 Assistant Pediatrician
Massachusetts General Hospital
- 1975-1978 Associate Pediatrician
Massachusetts General Hospital
- 1975-1978 Associate Director of Pediatrics
Cambridge Hospital
- 1978-1979 Assistant Physician
Rockefeller University Hospital
- 1980-1985 Associate Physician
Rockefeller University Hospital
- 1982-1993 Associate Attending Pediatrician
New York Hospital
- 1985-1998 Physician
Rockefeller University Hospital
- 1993-1997 Attending Pediatrician
New York Hospital
- 1997- Attending Pediatrician
Babies Hospital of New York

OTHER APPOINTMENTS

- 1990- Co-Director, Molecular Biology Core
New York Obesity Research Center (NIH Center)
- 1994- Deputy Director, New York Obesity Research Center (NIH Center)
2004- Co-Director, New York Obesity Research Center
- 1997- Member, Institute of Human Nutrition, Columbia University
- 1998- Co-Director, Naomi Berrie Diabetes Center, Columbia University
- 1997- Head, Division of Molecular Genetics, Department of Pediatrics, Columbia University
- 2001- Chairman, Selection Committee, Pollin Award for Pediatric Research, NY-Presbyterian Hospital
- 2002- Director, Genomics Core, and Pilot and Feasibility Program, NIH Diabetes and Endocrinology Research Center (DERC), Columbia University.
- 2003- Co-Director, Diabetes and Endocrinology Research Center (DERC), Columbia University

integrated graduate program in cellular, molecular, structural and genetic studies".
i am a member of this doctoral training program.

HONORS, AWARDS & LECTURES

Phi Beta Kappa
Alpha Omega Alpha
Austen-Colgate Scholar
NIH Postdoctoral Fellowship
Rockefeller Scholar in Clinical Science
Established Investigator, American Heart Association
Eliot Hochstein Award (for excellence in teaching), Cornell University Medical College
Senior List (for excellence in teaching), Cornell University Medical College
Field Lectureship, Division of Nutritional Sciences, Cornell University (1989)
John D. Crawford Lecture, Massachusetts General Hospital (1992)
Conrad Taff Visiting Professor of Nutrition, Harvard Medical School (1992)
Visiting Professor of Nutrition, University of Georgia (1992)
Visiting Professor of Medicine, University of Southern Illinois (1992)
Burroughs Wellcome Visiting Professor in the Basic Medical Sciences, Pennsylvania State University (1994)
John F. Crigler Lecture, Harvard Medical School (1996)
Lloyd J. Filer Lecture, University of Iowa (1996)
Plenary Lecture, 10th International Congress of Endocrinology (1996)
Louis M. Zeller Lecture, Ohio State University (1996)

TOPS Scientific Achievement Award (NAASO - 1996)
Plenary lecture, 17th Annual Meeting of the Japan Society for the Study of Obesity (1996)
Japan-US Medical Science Program Council Meeting (1996)
Keynote address: Keystone Symposium on Molecular and Cellular Biology: Insulin Action and Secretion in NIDDM and The Adipose Cell. Park City, Utah. (1997).
Annual AOA Lecture Cornell University Medical College (1997).
NIH / HHS Intragency Committee on Human Nutrition Research (1997)
NIH Committee on Diabetes Mellitus: Challenges and Opportunities (1997)
Visiting Lecturer, Bowman Gray School of Medicine, Wake Forest Univ. (1997)
William Andrews Wyeth-Ayerst Lecture, American Society for Reproductive Medicine (1997)
Prof. Harry Bostrom Lecture, Swedish Society of Medicine, Stockholm, Sweden (1997)
George Raiziss Biochemical Rounds, Univ. of Penn. (1998)
New York Univ. Honors Lecture (1998)
Osamu Hayaishi Lecture, Kyoto University, Japan (1998)
Plenary Speaker, 13th International Congress on Pharmacology, Munich, Germany (1998)
Invited Speaker, 8th International Congress on Obesity, Paris, France (1998)
Symposium Leader, Satellite Meeting of ICO: Genetics and Molecular Bases of Obesity, Paris, (1998)
Workshop participant: National Institute of Aging, Caloric Restriction/Clinical Implications, Bethesda, Md. (1999)
Invited Speaker, Society for Inherited Metabolic Disorders, Atlanta, Ga. (1999)
Invited Speaker, Health ABC, Univ. of California, San Francisco (1999)
Keynote Speaker, Neurofest, Univ. of Cincinnati (1999)
Plenary speaker, American Pediatric Society / Society for Pediatric Research, San Francisco (1999)
Invited Speaker, Keystone Symposium: Genetic Approaches to Obesity and Diabetes, Lake Tahoe, Calif. (1999)
Invited Speaker, Canadian Diabetes Association Annual Meeting, Calgary (1999)
Invited Speaker, 17th International Congress of Clinical Chemistry and Laboratory, Florence, Italy (1999)
Mackler Lecture, Albert Einstein College of Medicine, Bronx (1999).
Invited Speaker, Gerald Friedman Lecture, American Diabetes Assoc., NYC (1999)
NIH/NIDDK Adi-Map, Obesity Gene Mapping Collaborative Project, Bethesda, MD (2000)
Invited Speaker, 17th International Diabetes Federation Congress, Mexico City (2000)
Invited Speaker, 10th International Congress of Human Genetics (2001)
Lawson Wilkins Pediatric Endocrine Society and the European Society for Pediatric Endocrinology, Montreal (2001)
10th International Congress of Human Genetics. Vienna, Austria (2001)
Plenary Lecture, International Congress of Obesity, Sao Paulo, Brazil (2002)
Doris Calloway Lectureship, UC Berkeley. (2002)
John Ensink Lectureship, U. Washington (2002)
Member, Institute of Medicine, National Academy of Sciences
New York State Science, Technology and Academic Research (NYSTAR) Distinguished Professor, 2002
Invited Speaker, Keystone Symposium. Obesity: New Insights into Pathogenesis and Treatment (2003)
Invited Speaker, Endocrine Fellows Foundation at the 13th Annual Scientific Forum ADA, New Orleans (2003) Pfizer Visiting Professor of Diabetes. Vanderbilt University (2003)
Harold Rifkin Visiting Professor in Diabetes. Albert Einstein College of Medicine (2003)

GSK/Sarah Steadman Visiting Professor of Metabolism and Nutrition, Duke University (2003)
 Robert L. Ney Visiting Professor of Endocrinology. Johns Hopkins University (2003)
 Great Teachers Lecture. NIH. (2004)
 Dean's Lecture. Columbia University (2004)
 Visiting Professor, University of Colorado (2004)
 Distinguished Alumnus Award. Albert Einstein College of Medicine (2005)
 McCluskey Lecture. University of Pittsburgh (2005)
 Visiting Professor, University of California San Francisco (2005)
 Mackler Lecture. Montefiore Hospital. New York (2005)
 Visiting Professor, Oregon National Primate Research Center (2005)
 Dean's Lecture. University of Arkansas (2005)
 Keynote speaker. Turkish Diabetes Association. Antalya Turkey (2005)
 Speaker. New York Stem Cell Foundation. Stem Cell Biology in Diabetes (2005)
 New Insights in Obesity. American Academy of Pediatrics Annual Meeting. Washington DC (2005)
 Invited Speaker. Boston Nutrition Seminar. MIT. (2005)
 Keynote Lecture: Research Institute, Hospital for Sick Children. Toronto (2005)
 Invited Speaker. DERC/CNRU... Annual Meeting. University of Washington, Seattle (2006)
 Wolk Lecture. Colgate University (2006)
 Speaker. University of Wisconsin. Symposium on Human Biology (2006)
 Pfizer Visiting Professor. Yale University Medical School. (2006)
 U.S.-Japan Council. University of Washington. (2006)
 Wolk Lecture. Colgate University. (2006)
 McCardle Lab. University of Wisconsin. Genetics in Human Biology. (2006)
 Visiting Professor. Yale University School of Medicine. Two lectures on obesity. (2006)
 ADA Consensus Conference: Utility of abdominal circumference measurements in the clinical evaluation of obese patients. (2006)
 Molecular genetics of the control of body weight. MGH Human Genetics Unit. (2007)
 Uses of MRI and PET technologies in the study of human obesity and T2D. Keystone Conference. (2007)
 Saperstein lecture. Molecular genetics of control of body weight. Danbury Hospital, Danbury, CT. (2007)
 Denis McGarry lecture. McGill University/Montreal Diabetes Center. (2007)
 Keystone Symposium. Obesity and Adipogenesis. Invited lecture. (2008)
 Beaudette-Thompson Lecture. Rutgers University. (2008)
 Berthold medal of the European Society of Endocrinology (2008)
 Federation Award for biomedical research of the Federation of Medical Societies of the Netherlands. Leiden University. (2008)
 James Marks lecture. Department of Pediatrics. University of Texas, Southwestern. (2008)
 Sigma Xi University lecture, Purdue University (2008)
 Anthony Karpas Memorial Lecture. American Assoc of Clinical Endocrinologists. Georgia Chapter. 8 (2009)
 Ray A. and Robert L. Kroc Lectureship in Diabetes, University of Michigan (2009)

FELLOWSHIP AND GRANT SUPPORT

Current Support

RO1 DK52431-15 (Leibel)

07/01/03 – 04/30/13

NIH/NIDDK

Molecular Genetic Analysis of Human Obesity

The major goal of this project is to identify the genes that mediate susceptibility to obesity in humans.

RO1 DK64773-06 (Leibel) 07/01/03 – 04/30/12

NIH/NIDDK

Leptin in Human Energetics and Neuroendocrine function

The major goal of this project is to characterize the effects of maintenance of a reduced body weight on systemic energetics and on specific neuroendocrine and autonomic axes related to energy metabolism. The protocol examines the effects on these parameters of administration of exogenous leptin in doses sufficient to restore circulating leptin in weight reduced subjects to concentrations present before weight loss.

RO1 DK066518-06 (Leibel) 09/30/03-04/30/12

NIH/NIDDK

Cloning of a Type 2 Diabetes Modifier in Obese Mice.

The goal of this project is to clone a major modifier gene for type 2 diabetes in mice by a combination of positional genetics and bioinformatics.

5T35HL007616-29 (Leibel) 05/01/07 – 04/30/10

NIH/NHLBI

Short-term Training Grant.

This training grant provides support for Columbia University medical students working on research projects of 2-3 months duration.

ADA Mentor Based Postdoctoral Research Grant (Leibel) 07/01/07-06/30/11*American Diabetes Association*

Grant supports the salary of one postdoctoral fellow working on a diabetes-related research project.

P30 DK63068-06 (Accili) 02/01/03 – 01/31/12

NIH/NIDDK

Diabetes & Endocrinology Research Center. Co-PI and Genomics Core Director and Co-Director of DERC (Leibel)

The major goal of this Center is to promote interactions among research groups in diabetes, obesity, lipid metabolism, structural biology, immunology and beta cell transplantation through the Naomi Berrie Diabetes Center at Columbia University.

P30 DK26687-28 (Pi-Sunyer) 12/01/00 – 03/31/11

NIH/NIDDK

New York Obesity Research Center: Molecular Biology Core and Co-Director of the NYORC (Leibel)

This core provides assistance to qualified investigators in the application of molecular biology & molecular genetic techniques to studies of energy metabolism in animals and man. The core maintains several important animal models including the the Koletsky (*fa^k*) rat.

R01 DK77493-03 (Harris) 09/30/06-07/31/09

NIH/NIDDK

PET Imaging of human beta cell mass. Co-Investigator.

The goal of this project is to better understand the inter- and intra- assay variability of beta cell mass determinations by PET.

AstraZeneca (Leibel) 6/16/08-6/15/11

Research Collaboration Regarding Diabetes, Obesity, Atherosclerosis and Dyslipidemia.

This is a collaborative alliance with scientists from Columbia U and Astra Zeneca to conduct research projects of mutual interest and benefit, to develop novel therapeutics. There are 5 research projects being conducted.

Molecular and cell physiology of responses to weight perturbation in mice (**Leibel**)

06/16/08-06/15/11

The goal of this project is to understand the molecular physiology of the reductions in energy expenditure and increases in food intake that accompany weight reduction.

Recently Completed Research

Eli Lilly, Co. (Leibel)

3/4/98 - 3/3/02

International Consortium for Identification of Genes for type II Diabetes and Obesity

The major goal of this project is to identify genes underlying QTLs for susceptibility to type 2 diabetes in mice.

DK30583-19 (Leibel)

4/1/96 – 6/30/03

NIH/NIDDK

Energy Homeostasis in Human Obesity

This project examines the metabolic and neuroendocrine effects of 10-20% weight reduction in obese and non obese human subjects. Michael Rosenbaum, M.D.: Co-Principal Investigator. Conducts the clinical studies on a daily basis.

AMDeC (Leibel)

10/01/02 – 09/30/03

Academic Medicine Development Corp.

Molecular Genetics of Type 2 Diabetes in Children.

This is a one year pilot project to acquire data regarding the molecular physiology & molecular genetics of type 2 diabetes endophenotypes in siblings of children with type 2 diabetes.

The ultimate goal is to undertake a multi institutional study of the genetics of type 2 diabetes.

NYSTAR (Leibel)

01/01/03 – 12/31/05

New York State Science, Technology & Academic Research Faculty Development Award

Molecular Genetics of Obesity and Type 2 Diabetes in Mice.

The goal of this project is to identify genes underlying QTLs for susceptibility to type 2 diabetes in mice.

FDR (Leibel)

11/01/02 – 10/30/05

Foundation for Diabetes Research

Identification of Genes mediating Beta Cell Growth, Proliferation and Survival in Response to Immune Assault and Metabolic Stress

The goal of this project is to identify diabetes-susceptibility genes that regulate beta cell growth, proliferation, and death in response to immune assault and metabolic stress.

R13 DK070429-01 (Leibel Co-PI) 1/1/05-12/31/05
NIH/NIDDK

Keystone Conference on Obesity

The purpose of this meeting is to bring together scientists working on the molecular genetics and physiology of Energy homeostasis in mammalian and other organisms with investigators seeking to understand aspects of the Systemic physiology and environment that are interacting with clear genetic predisposition to increase the prevalence.

GSK (Leibel) 09/08/03-9/30/06
GlaxoSmithKline

Identification of Genes Contributing to the development of Diabetes in Congenic Mouse Lines

This project supports part of the effort to identify, by positional cloning techniques, genes mediating. Susceptibility to type 2 diabetes in obese mice.

R01 DK52431-13S1 (Leibel) 07/01/05-06/30/08
NIH/NIDDK

Molecular Genetic Analysis of Human Obesity- Research Supplement for Underrepresented Minorities

This grant provides fellowship training funds for a graduate student working as the statistical analysis of data arising from this project whose goal is to identify the genes that play a role in conferring susceptibility to obesity in humans.

ADA Mentor Based Postdoctoral Research Grant (Leibel) 07/01/03-06/30/07
American Diabetes Association

Grant supports the salary of one postdoctoral fellow working on a diabetes-related research project.

Currently mentor on 2 NIH K awards.

DEPARTMENTAL AND UNIVERSITY COMMITTEES

HARVARD MEDICAL SCHOOL:

1975-1978	Associate Director, Department of Pediatrics, Cambridge Hospital
1974-1977	Director, Cambridge Childhood Lead Poisoning Prevention and Detection Program
1974-1978	Director, Cambridge Supplemental Food for Women, Infants and Children (WIC) Program
1976-1978	Human Research Committee, Cambridge Hospital
1976-1978	Chairman, Quality Assurance Committee, Cambridge Hospital
1977-1978	Executive Committee, Cambridge Hospital

ROCKEFELLER UNIVERSITY:

- 1984-1994 Chairman, Infection Control Committee
- 1981-1984 Isotope Human Use Committee
- 1990-1991;
1993-1997 Computer Committee
- 1994-1997 GCRC Advisory Committee
- 1994-1997 Advisory Committee, Protein/DNA Technology Center
- 1995-1997 Member, Center for Human Genetics
- 1986-1990 Director, Clinical Research Core
Rockefeller - St. Luke's-Roosevelt Obesity Research Core Center
- 1987-1993 Associate Director, Pew Center of Nutrition Excellence
Rockefeller University

CORNELL UNIVERSITY MEDICAL COLLEGE:

- 1982-1997 Director, Division of Medical Student Education,
Department of Pediatrics
(Responsible for design and supervision of
clerkships in 3rd and 4th year)
- 1982-1997 Chairman, Residency Advisory Committee,
Department of Pediatrics
(Responsible for coordinating advising of all CUMC students
seeking postgraduate training in pediatrics)
- 1982-1997 Committee on Promotions and Graduation
- 1984-1997 Chairman, Student Education Committee,
Department of Pediatrics
- 1985-1986 Chairman, Committee to Revise the Fourth Year Curriculum
- 1987-1997 Curriculum Committee
- 1990-1997 Faculty Member, Tri-Institutional Endocrine Research
Training Program.

COLUMBIA UNIVERSITY

- 1998- Faculty Member, Institute of Human Nutrition
- 1999- Faculty Member, Integrated Graduate Program in Cellular, Molecular,
Structural and Genetic Studies

1998- Faculty Member, MD, Ph.D. Program
 2002- Faculty Council
 2005-2008 University Tenure Review Advisory Committee

TEACHING EXPERIENCE AND RESPONSIBILITIES

1972-1978 Design and implementation of 3rd/4th year pediatric clerkship at Cambridge Hospital, Harvard Medical School

1976-1978 Lecturer, Endocrine Pathophysiology Section, Harvard Medical School.

1978-1997 Rockefeller University: Ph.D. thesis sponsorship of 3 Rockefeller University students. Ph.D. thesis committee for 4 additional students. One Howard Hughes Medical Student Scholar, 3 American Heart Association Medical Student Scholars, 20 Pew Scholars, ~10 postdoctoral fellows, 5 Cornell University Medical College Endocrine Fellows, over 20 college undergraduates, ~20 high school students.

1982-1997 See Cornell University Medical College above.
 As Director of medical student education in pediatrics, I designed the clerkship and have directly supervised, taught, and prepared transcript material for ~120 consecutive 6-week clerkships, including > 1000 medical students.

1998 - Lecturer in genetics, nutrition and diabetes/endocrinology courses for medical and graduate students at Columbia University College of Physicians and Surgeons. (Current Graduate Trainees: 5 PhD's, 3 postdoctoral fellows).

OTHER PROFESSIONAL ACTIVITIES

COMMITTEE MEMBERSHIPS

1981 Consensus Committee on Central Nervous System
 Effects of Iron Deficiency in Children
 United Nations - Ford Foundation

1985 Consensus Committee on Obesity, NIH

1990-1996 National Committee on Nutrition
 American Academy of Pediatrics

1995 Dahlem Workshop on Regulation of Body Weight

- 1998- Board Member, Heritage Family Study, Quebec, Canada
- 1998-2004 External Advisory Board, Pennington Center for Biomedical Research
- 1998-2000 NIH-NIDDK Planning Group for Genetics, Genomics, Bioinformatics
- 1999- NIH/NIDDK Obesity Task Force
- 2001-2004 NIH/NIDDK Advisory Panel for Mouse Metabolic Phenotyping Centers
- 2003- Scientific Advisory Board. Children's Hospital of Oakland
- 2003-2007 National Advisory Council, NIH NIDDK
- 2005- Scientific Review Committee. Saban Institute. Children's Hospital of Los Angeles
- 2006- External Advisory Committee. Pennington Biomedical Center.
- 2006- Scientific Advisory Board, New York Stem Cell Foundation

EDITORIAL ACTIVITIES

- 1986-89 Editorial Board, International Journal of Obesity
- 1991- Editorial Board, Obesity Research
Section Editor, Genetics
- 1992- Editorial Board, International Journal of Obesity
- 2001-2004 Editorial Board, Journal of Clinical Endocrinology and Metabolism
- 2002-2007 Associate Editor, Journal of Clinical Investigation

STUDY SECTIONS

- Ad hoc Reviewer: NIH NIDDK
Ad hoc Reviewer: National Science Foundation
Special Reviewer: NIH Biomedical Sciences Study Section

CURRENT CONSULTANCIES

- National Diabetes Advisory Board, GlaxoSmithKline (Raleigh-Durham)
Scientific Advisory Board, Merck Pharmaceuticals (Rahway)
Scientific Advisory Board, Arisaph Pharmaceuticals (Boston)
Obesity Advisory Board, Amylin Pharmaceuticals (Boston)

OTHER ADMINISTRATIVE POSITIONS

- 1974-1977 Director, Cambridge Childhood Lead Poisoning Prevention and Detection Program
- 1974-1978 Director, Cambridge Supplemental Food for Women, Infants and Children (WIC) Program

CURRENT AREAS OF RESEARCH

Molecular genetics and molecular physiology of the mouse obesity mutations.

Molecular mapping and cloning of quantitative trait loci (QTL's) determining type 2 diabetes susceptibility in obese mice and rats. Molecular physiology of beta cell failure in obese mice.

Assessment of the role of rodent obesity and diabetes-susceptibility genes in obesity and type 2 diabetes in humans. These studies use linkage and mutation analysis strategies in nuclear families and individuals and involve collaborations with investigators at over 25 institutions around the world.

Effects of experimental perturbations of body weight on energy expenditure in humans. These studies are now focused on studies of skeletal muscle by ergometry, NMR spectroscopy and biochemical/molecular analysis. Low dose leptin "replacement" is being used to normalize changes in energy expenditure and the neuroendocrine axis.

Macrophage biology in adipose tissue relating to insulin homeostasis.

Developmental neurology of the hypothalamus. Effects of intrauterine and early postnatal environment.

Molecular physiology of mahogunin (MGRN1) (mutated in mahoganoid)

PET Imaging of human beta cells of the pancreas.

Stem cell biology in diabetes. Creation of ES cell lines by somatic cell nuclear transfer (SCNT).

PATENTS

Project Name: Mahoganoid Polypeptides, and Related Compositions and Methods
US Patent 7,339,028 B2

PUBLICATIONS

ORIGINAL REPORTS:

Haenni, E., F.L. Joe, J.W. Howard and R.L. Leibel. A more sensitive and selective ultraviolet absorption criterion for mineral oil. **J. Assoc. Off. Agri. Chem.** 45:59-64, 1962.

Leibel, R.L., J. Fangman and M. Ostrovsky. Chronic meningococemia in childhood: Case report and review of the literature. **Am. J. Dis. Child.** 127:94-98, 1974.

Porter, P.J., R.L. Leibel, et al. Municipal child health care services: A ten year reorganization. **Pediatrics** 58:704-712, 1976.

- Pollitt, E. and R.L. Leibel. Iron deficiency and behavior. **J. Pediatr.** 88:372-381, 1976.
- Leibel, R.L. A biologic radar system for the assessment of body mass. The model of a geometry sensitive endocrine system is presented. **J. Theor. Biol.** 66:297-06, 1977.
- Leibel, R.L. Thanatology and medical economics. **N. Engl. J. Med.** 296:511-513, 1977.
- Leibel, R.L. The complexities of dying. **N. Engl. J. Med.** 296:1239-1240, 1977 (correspondence).
- Leibel, R.L. The role of adipocyte geometry in eating behavior. **Science** 200:1504-1505, 1978.
- Leibel, R.L., D. Greenfield and E. Pollitt. Biochemical and behavioral aspects of sideropenia. **Br. J. Haematol.** 41:145-150, 1979.
- Chan, S., E. Pollitt and R.L. Leibel. Effects of nutrient cues on formula intake in 5-week old infants. **Infant Behav. and Devel.** 2:201-208, 1979.
- Leibel, R.L., V.E. Shih and S.I. Goodman, et al. Glutaric acidemia. A metabolic disorder causing progressive choreoathetosis. **Neurology** 30:1163-1168, 1980.
- Grinker, J., A.J. Strohmayer, J. Horowitz, J. Hirsch and R.L. Leibel. The effect of the metabolite glycerol on food intake and body weight in rats. **Brain Res. Bull.** 5:29-35, 1980.
- Leibel, R.L., A. Drewnowski and J. Hirsch. Effect of glycerol on weight loss and hunger in obese patients. **Metabolism** 29:1234-1236, 1980.
- Pollitt, E., R.L. Leibel and D. Greenfield. Brief Fasting, stress and cognition. **Am. J. Clin. Nutr.** 4:1526-1533, 1981.
- Leibel, R.L., E. Pollitt, I. Kim and F. Viteri. Studies regarding the impact of micronutrient status on behavior in man: iron deficiency as a model. **Am. J. Clin. Nutr.** 35:1211-1221, 1982.
- Pollitt, E., R.L. Leibel, N. Lewis and W. Mueller. The relation of growth to cognition in a well nourished pre-school population. **Child Dev.** 53:1157-1163, 1982.
- Pollitt, E., R.L. Leibel and D.B. Greenfield. Iron deficiency and cognitive test performance in preschool children. **Nutr. Behav.** 1:137-146, 1983.
- Leibel, R.L. Energy requirements in formerly obese patients. **J. Obesity Weight Regulation** 2:148-150, 1983.
- Leibel, R.L. and J. Hirsch. Diminished energy requirements in reduced-obese patients. **Metabolism** 33:164-170, 1984.
- Leibel, R.L., J. Hirsch, E.M. Berry and R.K. Gruen. A radioisotopic method for the measurement of lipolysis in small samples of human adipose tissue. **J. Lipid. Res.** 25:49-57, 1984.
- Carpentier, Y.A., M. Jeevanandam, A.P. Robin, J. Nordenstrom, R.E. Burr, R.L. Leibel, J.

Hirsch, D.H., Elwyn and J.M. Kinney. Measurement of glycerol turnover by infusion of non-isotopic glycerol in normal and injured subjects. **Am. J. Physiol.** 247:916-928, 1984.

Forse, R.A., R. Leibel, J. Hirsch, J. Askanazi, C. Michelson and J.M. Kinney. The adipocyte adrenergic receptor response in trauma and sepsis. **Surgical Forum** 35:6-8, 1984.

Leibel, R.L. and J. Hirsch. A radioisotopic technique for the analysis of free fatty acid reesterification in human adipose tissue. **Am. J. Physiol.** 248:E140-E147, 1985.

Leibel, R.L., J. Hirsch, E.M. Berry and R.K. Gruen. Alterations in adipocyte free fatty acid re-esterification associated with obesity and weight reduction in man. **Am. J. Clin. Nutr.** 42:198-206, 1985.

Leibel, R.L. A radioisotopic method for the measurement of free fatty acid turnover and adrenoreceptor response in small fragments of human adipose tissue. **Int. J. Obesity** 9:137-143, 1985.

Leibel, R.L. and J. Hirsch. Characterization of obesity: Metabolic considerations. **Ann. Int. Med.** 103:1000-1002, 1985.

Pollitt, E., C.S. Pollitt, R.L. Leibel and F.E. Viteri. Iron deficiency and behavioral development in infants and preschool children. **Am. J. Clin. Nutr.** 43:555-565, 1986.

Leibel, R.L. and J. Hirsch. Site and sex related differences in adrenoreceptor status of human adipose tissue. **J. Clin. Endocrinol. Metab.** 64:1205-1210, 1987.

Forse, A., R.L. Leibel, J. Askanazi, J. Hirsch, and J.F. Kinney. Adrenergic control of adipocyte lipolysis in trauma and sepsis. **Ann. Surg.** 206:744-751, 1987.

Forse, A., R.L. Leibel, and R. Gagner. Effect of E.Coli endotoxin on adipocyte lipolysis. **J.Surg.Res.** 46:41-48, 1989.

Fong, Y., M. Rosenbaum, K.J. Tracey, G. Raman, D.G. Hesse, D.E. Matthews, R.L. Leibel, J.M. Gertner, D.A. Fischman, and S.F. Lowry. Recombinant growth hormone enhances muscle myosin heavy-chain mRNA accumulation and amino acid accrual in humans. **Proc.Natl.Acad.Sci.** 86:3371-3374, 1989.

Rosenbaum, M., R.L. Leibel, and J.M. Gertner. Acute inhibition of somatotroph response to human growth hormone-releasing hormone 1-44 occurs following 3 hours but not 1 hour of growth hormone infusion. **Metabolism.** 38:590-593, 1989.

Leibel, R.L., A. Forse, and J. Hirsch. Effects of rapid glucose infusion on in-vivo and in-vitro free fatty acid re-esterification by adipose tissue of fasted obese subjects. **Int. J. Obesity.** 13:661-671, 1989.

Rosenbaum, M., J.M. Gertner, and R.L. Leibel. Effects of systemic growth hormone (GH) administration on regional adipose tissue distribution and metabolism in GH-deficient children. **J.Clin.Endocrinol.Metab.** 69:1274-1281, 1989.

Presta, E., R.L. Leibel, and J. Hirsch. Regional changes in adrenoceptor status during hypocaloric intake do not predict changes in adipocyte size or body shape. **Metabolism**. 39:307-315, 1990.

Katzeff, H.L., M.U. Yang, E. Presta, R.L. Leibel, J. Hirsch, and T. Van Itallie. Effects of iopanoic acid on thyroid hormone metabolism during severe caloric restriction. **Am J Clin Nutr**. 52:263-266, 1990.

Edens, N.K., R.L. Leibel, and J. Hirsch. Lipolytic effects on diacylglycerol accumulation in human adipose tissue in vitro. **J. Lipid. Res**. 31:1351-1359, 1990.

Edens, N.K., R.L. Leibel, and J. Hirsch. Mechanism of free fatty acid re-esterification in human adipose tissue in vitro. **J. Lipid. Res**. 31:1423-1431, 1990.

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