

# CURRICULUM VITAE

## **Peter R. Holt, M.D.**

Laboratory of Biochemical Genetics and Metabolism  
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Date of Birth: [REDACTED]  
Place of Birth: Berlin, Germany  
Citizenship: United States

### **Education**

Tollington School, London, England	1942-49
Matriculation, University of London	1947
Higher School Certificate, University of London	1949
The London Hospital Medical School	1949-54
M.B., B.S. (Honours), University of London	1954
LRCP (London), MRCS (England)	1954

### **Postdoctoral Training**

Internship in Medicine & Surgery, The London Hospital, London, England	1954-55
Assistant Resident in Medicine, St. Luke's Hospital Center, New York, NY	1957-59
Training Fellow in Medicine (Gastroenterology), Massachusetts General Hospital, Boston, MA (Dr. K.J. Isselbacher)	1959-61

### **Certification**

New York State License	1959
American Board of Internal Medicine	1966

### **Professional Appointments**

Royal Army Medical Corps (active duty), Internist and Pathologist; Acting rank of Major at discharge	1955-57
Chief, Division of Gastroenterology, Medical Service, St. Luke's Hospital Center, New York, NY	1961-96
Assistant Attending Physician, St. Luke's Hospital Center, New York, NY	1961-67
Assistant Physician, Medical Service, Vanderbilt Clinic, Presbyterian Hospital, New York, NY	1964-70
Associate Attending Physician, St. Luke's Hospital Center, New York, NY	1967-71
Assistant Physician, Presbyterian Hospital, New York, NY	1971-72
Attending Physician, St. Luke's Hospital Center, New York, NY	1971-2007
Associate Attending Physician, Presbyterian Hospital, New York, NY	1976-88
Research Collaborator, Brookhaven National Laboratory, Upton, NY	1973-79
Member, Bioengineering Institute, Columbia University, New York, NY	1975-87
Member, Institute of Human Nutrition, Columbia University, College of Physicians & Surgeons, New York, NY	1978-2000
Member, Columbia University Cancer Center	1993-2004
Attending Physician, Presbyterian Hospital, New York, NY	1988-2007
Consulting Physician, Putnam Hospital Center, Carmel, NY	1988-90
Chief, Division of Gastroenterology, Medical Service St. Luke's-Roosevelt Hospital Center, New York, NY	1996-2000
Senior Scientist, American Health Foundation	2000-2004
Adjunct Senior Scientist, Strang Cancer Prevention Center	2000-2004
Member, Albert Einstein Cancer Center	2004-2012
Visiting Associate Physician, Rockefeller University Hospital, New York, NY	2001-2004
Director, James E. Olsen Colon Cancer Prevention Program, and Senior Scientist, Strang Cancer Prevention Center, New York, NY	2004-2007
Associate Physician, The Rockefeller University Hospital	2007-
Associate Director, Sackler Center for Biomedicine and Nutrition Research	2014-

### **Academic Appointments**

Research Fellow in Medicine, Harvard Medical School, Boston, MA.	1959-61
Associate in Medicine, College of Physicians & Surgeons, Columbia University, New York, NY	1961-65
Assistant Clinical Professor of Medicine, College of Physicians & Surgeons, Columbia University, New York, NY	1965-67
Associate Clinical Professor of Medicine, College of Physicians & Surgeons, Columbia University, New York, NY	1967-71
Associate Professor of Medicine, College of Physicians & Surgeons, Columbia University, New York, NY	1971-75
Professor of Medicine, College of Physicians & Surgeons, Columbia University, New York, NY	1975-2000
Professor of Medicine Emeritus, College of Physicians & Surgeons Columbia University, New York, NY	2000-
Visiting Investigator, Memorial Sloan-Kettering Cancer Center, New York, NY	1988-90
Adjunct Professor, The Rockefeller University	2000-2007

Senior Research Associate, The Rockefeller University in the Laboratory of Biochemical Genetics and Metabolism	2007-Present
Adjunct Professor of Medicine, Weill Cornell Medical College	2010-Present

**Societies**

American Association for Cancer Research  
 American Association for the Study of Liver Disease  
 American College of Physicians (Fellow)  
 American Federation for Clinical Research  
 American Gastroenterological Association  
 American Physiological Society  
 American Society for Clinical Investigation  
 American Society for Clinical Nutrition

**Honors**

The London Hospital Medical College: The Charrington Prize in Anatomy, The Ross Prize in Clinical Medicine and Pathology, The Prize in Pathology, The Thompson Prize in Diseases of Children	1949 -54
William H. Rorer Award in Gastroenterology	1965
Joslyn Lecturer at the University of California, Irvine, CA	1987
Trevor Howell Lectures Brit Geriatric Society	1992
Dorothy Ewerson Lecture U. Pisa	1999
Who's Who in America: Best Doctors in New York, New York Magazine	1980-2006
Best Doctors in America:	1996-2007
America's Top Doctors	2001-2007
Janssen Lifetime Achievement Award in Digestive Sciences	2002
Solvay International Nutrition Award	2002
Alumni Award, St. Luke's-Roosevelt Hospital Center	2013

**Editorial Boards**

American Journal of Digestive Disease	1976-1978
Resident & Staff Physician	1982-
Journal of Gerontology: Medical Sciences	1987-1994
Gastroenterology Observer	1988-1995
Age & Nutrition	1990-1997
Journal of Clinical Gastroenterology	1992-1995
Journal of Nutrition, Health, & Aging	1997-2006
Czech and Slovak Gastroenterology and Hepatology	2001-2009

**Grant Support**

PI NIH Research Grants and Contracts	1964-2007
PI NIH Training Grants – Gastroenterology, Columbia University	1967-1976
PI NIA Training Grants in Aging Gastroenterology, St. Luke's Hospital Center	1988-1993

## **Extramural Assignments**

New York Gastroenterological Association:

Council (1969-74), Secretary-Treasurer (1969-70), Vice President (1970-71), President (1971-72)

American Gastroenterological Association:

Committee on Research (1971-74), Chairman (1973-74)

Committee on Procedures(1977-80),

Admissions Committee (1982-86)

Chairman Council on Aging (1982-86)

Member Manpower and Training Committee (2000-2003)

Member International Committee (2005- )

Co-Chair (2008-2009), Chair (2009- 2012)

Member, AGA Task Force on Aging (1999)

American College of Gastroenterology:

Committee on Drugs and FDA Related Matters(1984-86)

American Association for the Study of Liver Diseases:

Fiscal and Audit Committee (1978-80)

National Institutes of Arthritis and Metabolic Digestive Diseases:

- 12<sup>th</sup> Work Group of the NIAMDD Evaluation Effort - Future of Digestive Disease Research

- Work Group on Human Experimentation, Chairman (1973-75)

- Ad Hoc Grant Reviewer (1970- )

National Commission on Digestive Disease:

Work Group on Clinical Research (1977-79)

National Institute on Aging:

Ad Hoc Grant Reviewer (1982- )

Member Safety and Data Monitoring Committee Vitamin D/Calcium Polyp Study (2009- )

Intersociety Committee on Clinical Investigation in Digestive Disease:

Chairman (1975-79)

National Foundation for Ileitis & Colitis:

Scientific Advisory Committee (NY Chapter) (1975-85),Chairman (1976-78)

National Scientific Advisory Committee (1976-90), Executive Cabinet (1983-85)

Grants Review Committee (1982-84)

Research Training Awards Program Committee (1983-88), Chairman (1984-86)

American College of Physicians - Governor's Advisory Committee, Downstate New York (1979-82)

Organisation Mondiale de Gastroenterologie et d'Endoscopie Digestives (OMGE):

Secretary, Committee on Ethics (1982-90), Member, Committee on Ethics (1990-94)

Chair, Nomination Committee (1990-94)

Member, Governing Council (1990-94)

Member, Research Committee (1994-2000)

American Federation for Aging Research:

Member, Ad Hoc Research Review Committee (1982-1990)

Member, National Scientific Advisory Council (1988-91)

World Health Organization Nomenclature Committee (1984- 1989)  
Burrill B. Crohn's Research Foundation - National Scientific Consultant (1983-1990)  
Scientific Advisory Board World Congress of Gastroenterology (1998)  
Internal Advisory and Curriculum Committee - R25 Cancer Prevention Training  
Program Cornell University (2007-2008)

### **Columbia University - Intramural Assignments (Selected)**

Director, National Institutes of Health Training Grant in Gastroenterology	1967-76
Director, National Institute on Aging Training Grant in Gastroenterology	1986-92
Director, Abnormal Human Biology Course, Gastroenterology Section	1972-75
Chairman, Curriculum Committee, GI Nutrition Study Group	1971-72
Faculty Council Member, Gastroenterology Committee on Curriculum Continuity	1975-76
Faculty Council	1983-86
Doctoral Program Committee, Institute of Human Nutrition	1984-86
Steering Committee, Center for Geriatrics and Gerontology	1980-82
Director, Annual Postgraduate Course in Gastroenterology	1983-97
Member, Comprehensive Cancer Center	1986-2004
Associate Member, Columbia University Seminars on Cancer	1992-2004

### **St. Luke's/Roosevelt Hospital Center - Intramural Assignments (Selected)**

Education Committee	1980-2001
Chairman	1980-84
Chair, Search Committee for Director of Pathology	1983-84
Academic Affairs Committee	1986-2000
Search Committee for Director of Gerontology	1987-89
Executive Committee Department of Medicine	1974-2000

### **Rockefeller University**

Advisory Committee for Clinical and Translational Science	2006-
Chair	2013

### **Invitations and Visiting Professorships**

Visiting Professor, Department of Surgery at the University of Texas, Galveston, TX (1992)  
Invited Participant, Symposium on "*Ethics at the First European Digestive Disease Week*", Athens, Greece (1992)  
Trevor Howell Lecturer, British Geriatric Society, London, England (1992)  
Invited Participant, "*Acid Related Disorders: Science and Implications for Management*", Boston, MA (1993)  
Faculty Participant, NIH General Medicine A-2 Study Section (1993)  
Invited Participant, Fourth Annual Updates in Gastroenterology and Geriatrics in Practice: "*Gastrointestinal Problems in the Elderly*", Pittsburgh, PA (1994)  
Invited Speaker, "*Biological Science Section of the Gerontological Society of America*", Atlanta, GA (1994)  
Visiting Professor, University of Colorado School of Medicine (1994)

Organizer, Chairperson and Speaker, Symposium on *"The Biology of Aging"*, The X World Congress of Gastroenterology, Los Angeles, CA (1994)

Invited Speaker, *"Intervention in Aging"*. IV, Volterra, Italy (1995)

Invited Participant, Gordon Research Conference, Pisa, Italy (1995)

Invited Participant, *"Meet-the-Professor Sessions, Digestive Disease Week"*, San Diego, CA (1995)

Visiting Professor, Temple University (1995)

Invited Speaker, Symposium on *"Aging Effects on Gastrointestinal on Liver Function"*, The American Aging Association, San Francisco, CA (1996)

Chair, Oncology Subsection Session, Digestive Disease Week (1997)

Digestive Disease Week (1998)

Digestive Disease Week (1999)

Invited Participant, World Congresses of Gastroenterology, Minisymposium on Gastrointestinal Diseases In The Elderly, American College of Nutrition, Vienna Austria (1998)

Invited Speaker, Strang International Cancer Prevention Conference (1998)

Invited Participant, Geriatric Educational Retreat for Gastroenterology, St. Johns U.S. Virgin Islands (1999)

Dorothy Dillon Eweson Lecture, American Federation for Aging Research, Pisa Italy (1999)

Invited Speaker, Dietitians of Canada Oncology Network, Diet and Cancer: Looking Beyond 2000, Vancouver Canada (1999)

Invited Speaker, Calcium Summit, BSMG Worldwide (1999)

Invited Speaker, International Workshop "Dairy Products and Colon Cancer Risk Reduction" Utrecht, The Netherlands (1999)

Invited Speaker, Special Nutrition Lecture Series, Memorial Sloan Kettering Cancer Center (1999)

Invited Participant, Second International Meeting "Gastrointestinal Diseases in the Elderly," Vicenza, Italy (2000)

Invited Participant, Integrating Geriatrics into the Subspecialties of Internal Medicine Los Cabos, Mexico (2000)

Invited Speaker, Second Annual Chao Family Comprehensive Cancer Center Symposium Newport Beach, California (2000)

Invited Speaker, Second Sass Symposium on Basic Mechanisms of Cancer and Therapy Crete, Greece (2000)

First Congress European Geriatric Gastroenterology Study Group, Vicenza, Italy (2001)

Invited Speaker, Dairy Farmers of Canada, "The Smart Gourmet: Dairy Foods for Health and Pleasure" Montreal, Canada (2001)

Invited Speaker, Scientific Society of Gastroenterologists of Russia, Moscow (2008)

Organizer and Speaker AGA – Romanian Society of Gastroenterology and Hepatology, Iasi, Romania (2008)

Invited Speaker, American Geriatrics Society, Washington, DC (2008)

Co Chair and Speaker AGA – Scientific Society of Gastroenterologists of Russia (GSSR) Course, GSSR Annual Meeting, Moscow Russia (2009)

Chair of 2 sessions at DDW 2009, Chicago (2009)

Co Chair Rising Stars – AGA Research Scholar meeting, Lecture Best of DDW 2009, Annual UEGW meeting London, England (2009)  
Co Chair and Speaker AGA – GSSR Course, GSSR Annual meeting Moscow, Russia (2010)  
Chair of 2 sessions and oral Presentation DDW 2010 New Orleans (2010)  
Co Chair and Speaker AGA – GSSR Course, St. Petersburg, Russia (2010)  
Speaker Annual meeting of Spanish Society Santiago de Compostela, Spain (2010)  
Co Chair AGA – Pan American Course and lecturer, Pan American meeting Guayaquil, Ecuador (2010)  
Co Chair Rising Star – AGA Research Scholar meeting and lecturer, Best of DDW, 2010 Annual UEGW meeting Barcelona, Spain (2010)  
Lecturer VIII European meeting in Gastroenterology and Hepatology Florence, Italy (2010)  
Chair and Speaker on Colorectal cancer DDW 2011  
Co-chair and Speaker Annual Meeting of Spanish Gastroenterology Association, Seville June 2011  
Organizer and Speaker, Best of DDW at the Annual Meeting of the European Gastroenterology Association (UEGW) Stockholm October 2011  
Chair and Speaker Annual meeting of Mexican Gastroenterology Association Leon Mexico November 2011  
Organizer and speaker Obesity and Cancer Symposium DDW 2012  
Organizer and speaker Annual meeting of the Spanish Gastroenterology Association Bilbao Spain June 2012  
Section chair FASEB conference “Probiotics, intestinal microbiota and the host. Physiologic and clinical implications, July 2011  
Organizer and speaker Best of the 2012 Spring Postgraduate Course held in Johannesburg, Durban and Capetown South Africa September 2012  
Chair Research Session DDW May 2013  
Speaker Emeritus Professors of Columbia University April 2014  
Speaker Activating a Global Research Agenda for Nutrition Science Wageningen, The Netherlands June 2014

## **PUBLICATIONS**

### **Original Articles**

1. Caird FI, **Holt PR**. The enanthem of glandular fever. *Brit Med J*. 1:85-87, 1958.
2. **Holt PR**. A survey of hemoglobin levels of students attending the Eastern Command Physical Training School. *RAMC Journal*. 13-17, 1959.
3. Griggs D, **Holt PR**, Case RB. Serial pressure-volume studies in the excised canine heart. *Am J Physiol*. 198:336-340, 1960.
4. **Holt PR**. Measurement of gastrointestinal blood loss in subjects taking aspirin. *J Lab Clin Med*. 56:717-727, 1960.
5. Cohen A, Schimmel E, **Holt PR**, Isselbacher KJ. Ultrastructural abnormalities in Whipple's disease. *Proc Soc Exp Biol Med*. 105:411-414, 1960.
6. **Holt PR**, Isselbacher KJ, Jones CM. The reversibility of Whipple's disease—Report of a case with comments on the influence of steroid therapy. *N Engl J Med*. 264:1335-1339, 1961.
7. Pierson R, **Holt PR**, Keating R, Watson R. Aspirin and gastrointestinal bleeding: Chromate blood loss studies. *Am J Med*. 31:259-265, 1961.
8. Donaldson RM Jr, **Holt PR**. Idiopathic protein-losing enteropathy in an adult with apparently complete recovery. *Am J Med*. 34:572-577, 1963.
9. **Holt PR**, Haessler HA, Isselbacher KJ. Effects of bile salts on glucose metabolism by slices of hamster small intestine. *J Clin Invest*. 42:777-786, 1963.
10. **Holt PR**. Utilization of glycerol-C for intestinal glyceride esterification: Studies in patients with chyluria. *J Clin Invest*. 42:349-356, 1964.
11. **Holt PR**. Intestinal absorption of bile salts in the rat. *Am J Physiol*. 207:1-7, 1964.
12. DuBois JJ, **Holt PR**, Kuron GW, Hashim SA, Van Itallie TB. Effects of Tween 80 of cholestyramine-induced malabsorption. *Proc Soc Exp Biol Med*. 117:226-229, 1964.
13. **Holt PR**. Effect of Tween 80 on intestinal bile absorption in vitro. *Proc Soc Exp Biol Med*. 117:230-232, 1964.



14. **Holt PR.** Dietary treatment of protein loss in intestinal lymphangiectasia. *Pediatrics* 34:629-635, 1964.
15. Schrogie JJ, **Holt PR**, Hartley RC, Bartholomew LG. "Histamine-induced" pancreatitis. *Gastroenterology*. 49:672-675, 1965.
16. **Holt PR**, Haessler HA, Isselbacher KJ. Effects of lipid absorption on glucose metabolism by slices of hamster small intestine. *Am J Physiol*. 208:324-328, 1965.
17. **Holt PR**, Hashim SA, Van Itallie TB. Treatment of malabsorption syndrome and exudative enteropathy with synthetic medium chain triglycerides. *Am J Gastroent*. 43:549-559, 1965.
18. McDonald CA, **Holt PR**. Celiac artery thrombosis resulting in infarction of the liver and small intestine. *Ann Int Med*. 64:1057-1062, 1966.
19. Barrett CR Jr, **Holt PR**. Postgastrectomy blind loop syndrome: megaloblastic anemia secondary to malabsorption of folic acid. *Am J Med*. 41:629-637, 1966.
20. **Holt PR**. Competitive inhibition of intestinal bile salt absorption in the rat. *Am J Physiol*. 210:635-639, 1966.
21. Chalfin D, **Holt PR**. Medium chain fatty acids and the intestinal mucosa. *Am J Dig Dis*. 11:903-904, 1966.
22. **Holt PR**. Studies of intestinal digestion, absorption and metabolism of medium chain triglycerides. *Proc III World Cong Gastroent*. 2:293-296, 1967.
23. Kerr RH, DuBois J, **Holt PR**. Use of <sup>125</sup>I and <sup>51</sup>Cr-labeled albumin for the measurement of gastrointestinal and total albumin catabolism. *J Clin Invest*. 46:2064-2082, 1967.
24. Mezey E, Nichols AW, **Holt PR**. Tuberculous ileoduodenal fistula. *Gastroenterology*. 52:83-87, 1967.
25. Chalfin D, **Holt PR**. Lactase deficiency in ulcerative colitis, regional enteritis and viral hepatitis. *Am J Dig Dis*. 12:81-87, 1967.
26. **Holt PR**. Medium chain triglycerides - a useful adjunct in nutritional therapy. Current clinical concepts. *Gastroenterology*. 53:961-966, 1967.
27. Clark SB, **Holt PR**. Rate-limiting steps in steady state intestinal absorption of triolein-1 C. Effect of biliary and pancreatic flow diversion. *J Clin Invest*. 47:612-623, 1968.

28. Mezey E, Cherrick GR, **Holt PR**. Biliary excretion of alcohol dehydrogenase. *J Lab Clin Med.* 71:796-806, 1968.
29. Mezey E, Cherrick GR, **Holt PR**. Serum alcohol dehydrogenase, an indicator of intrahepatic cholestasis. *N Engl J Med.* 279:241-248, 1968.
30. **Holt PR**. Medium chain triglycerides in malabsorption syndrome. *Proc West Hemis Nutr Cong.* 83-85, 1968.
31. **Holt PR**, Bennett Clark S. Dietary triglyceride composition related to intestinal fat absorption. *Am J Clin Nutr.* 22:279-283, 1969.
32. Bennett Clark S, **Holt PR**. Inhibition of steady state intestinal absorption of long chain triglycerides by medium chain triglycerides in the unanesthetized rat. *J Clin Invest.* 48:2235-2243, 1969.
33. Mezey E, Slater KC, **Holt PR**. The source of the nothing dehydrogenase activity in normal serum. *Clin Chim Acta.* 25:11-16, 1969.
34. Mezey E, **Holt PR**. Loss of the characteristic features of a typical human liver alcohol dehydrogenase during purification. *Life Sci.* 8:245:251, 1969.
35. **Holt PR**, Bennett Clark S, Brause B. Lipolysis and absorption of fat in the rat stomach. *Gastroenterology.* 56:214-222, 1969.
36. **Holt PR**. Cholestyramine and polysorbate-80 in the treatment of choleraic enteropathy. *Am J Dig Dis.* 15:781-782, 1970.
37. Mezey E, **Holt PR**. The inhibitory effect of ethanol on retinol oxidation by human liver and cattle retina. *Exp Molec Path.* 15:148-156, 1971.
38. Clark SB, Ekkers TE, Sing A, Balint JA, **Holt PR**, Rodgers JB Jr. Fat absorption in essential fatty acid deficiency: A model experimental approach to studies of the mechanism of fat malabsorption of unknown etiology. *J Lipid Res.* 14:581-588, 1973.
39. Marubbio AT Jr, Lombardo RP, **Holt PR**. Control of variceal bleeding by superior mesenteric artery pitressin perfusions: Complications and indications. *Am J Dig Dis.* 18:539-543, 1973.
40. Marubbio AT Jr, Morris JA Jr, Clark SB, **Holt PR**. Monoglyceride modification of jejunal absorption of fatty acid in the rabbit. *J Lipid Res.* 15:165-172, 1974.
41. Mezey E, Imbembo AL, Potter JJ, Rent KC, Lombardo RP, **Holt PR**. Endogenous ethanol production and hepatic disease following jejunoileal bypass for morbid obesity. *Am J Clin Nutr.* 28:1277-1283, 1975.

42. Sabesin S, **Holt PR**, Clark SB. Intestinal lipid absorption: Evidence for an intrinsic defect of chylomicron secretion by normal rat distal intestine. *Lipids*. 10:840-846, 1975.
43. Wu A-L, Clark SB, **Holt PR**. Transmucosal triglyceride transport rates in proximal and distal rat intestine in vivo. *J Lipid Res*. 16:251-257, 1975.
44. Borak E, Taub R, El-Khatib D, Osserman E, **Holt PR**. Serum lysozyme in mice with induced granulomas. *N Engl J Med*. 295:623, 1976.
45. Linthorst JM, Clark SB, **Holt PR**. Triglyceride emulsification by amphipaths present in the intestinal lumen during digestion of fat. *J Colloid Interf Sci*. 60:1-10, 1977.
46. Sabesin S, Bennett Clark S, **Holt PR**. Ultrastructural features of regional differences in chylomicron secretion by rat intestine. *Exp Molec Path*. 26:277-289, 1977.
47. El-Khatib OS, Lebwohl O, Attia AA, Flood CA, Stein JA, Sweeting JB, Whitlock RT, Osserman EF, **Holt PR**. Serum lysozyme, serum proteins and immunoglobulin determinations in non-specific inflammatory bowel disease. *Am J Dig Dis*. 23:297-301, 1978.
48. Schoen MS, Lindenbaum J, Roginsky MS, **Holt PR**. Significance of the serum level of 25-hydroxycholecalciferol in gastrointestinal disease. *Am J Dig Dis*. 23:137-142, 1978.
49. **Holt PR**, Wu A-L, Bennett Clark S. Apoprotein composition and turnover in rat intestinal lymph during steady state triglyceride absorption. *J Lipid Res*. 29:494-502, 1979.
50. Frank WO, Rayyes AN, Washington A, **Holt PR**. Effect of acute ethanol administration upon hepatic regeneration. *J Lab Clin Med*. 93:402-413, 1979.
51. **Holt PR**, Dominguez AA, Kwartler J. Effect of sucrose feeding upon intestinal and hepatic lipid synthesis. *Am J Clin Nutr*. 32:1782-1798, 1979.
52. Wu A-L, Bennett Clark S, **Holt PR**. Composition of lymph chylomicrons from proximal or distal rat small intestine. *Am J Clin Nutr*. 33:582-589, 1980.
53. Kelly TJ, **Holt PR**, Wu A-L. Effect of sucrose intestinal very low-density lipoprotein production. *Am J Clin Nutr*. 33:1033-1040, 1980.
54. **Holt PR**, Dominguez AA. Triton-induced hyperlipidemia: A model for studies of intestinal lipoprotein production. *Am J Physiol*. 238:G453-G457, 1980.
55. **Holt PR**, Dominguez AA. Intestinal absorption of triglyceride and vitamin D3 in aged and young rats. *Dig Dis Sci*. 26:1109-1115, 1981.

56. Gutwein I, Baer J, **Holt PR**. Effect of a formula diet upon preparation of the colon for barium enema. Impact on health care and costs. *Arch Intern Med.* 141:993-996, 1981.
57. Feibusch JM, **Holt PR**. Impaired absorptive capacity for carbohydrate in the aging human. *Dig Dis Sci.* 27:1095-1100, 1982.
58. Kotler DP, **Holt PR**, Rosensweig NS. Modification of the breath hydrogen test: Increased sensitivity for the detection of carbohydrate malabsorption. *J Lab Clin Med.* 100:798-805, 1982.
59. **Holt PR**, Kotler DP, Pascal RR. A simple method for determining epithelial cell turnover in small intestine: Studies in young and aging rat gut. *Gastroenterology.* 84:69-74, 1983.
60. Brasitus TA, Yeh, K-Y, **Holt PR**, Schachter D. Lipid fluidity and composition of intestinal microvillus membranes isolated from rats of different ages. *Biochim Biophys Acta.* 778:341-348, 1984.
61. **Holt PR**, Pascal RR, Kotler DP. Effect of aging upon small intestinal structure in the Fischer rat. *J Gerontol.* 39:642-647, 1984.
62. Kotler DP, Gaetz H, Lange M, **Holt PR**. Enteropathy associated with the acquired immuno-deficiency syndrome. *Ann Int Med.* 101:421-428, 1984.
63. Kotler DP, Sherman D, Bloom SR, **Holt PR**. Malnutrition after gastric surgery: Association with exaggerated distal intestinal hormone release. *Dig Dis Sci.* 30:193-199, 1985.
64. **Holt PR**, Tierney AR, Kotler DP. Delayed enzyme expression: A defect of aging rat gut. *Gastroenterology.* 89:1026-1034, 1985.
65. Yeh, K-Y, **Holt PR**. Rat milk maintains intestinal lactase activity in rat pups whereas artificial formulas do not. *Pediat Res.* 19:963-967, 1985.
66. Comer GM, Ramey WG, Kotler DP, **Holt PR**. Isolation of intestinal mononuclear cells from colonoscopic biopsies for immunofluorescence-analysis by flow cytometry. *Dig Dis Sci.* 31:151-156, 1986.
67. Greenberg RE, **Holt PR**. Influence of aging upon pancreatic digestive enzymes. *Dig Dis Sci.* 31:970-977, 1986.
68. **Holt PR**, Shu W, Yeh, K-Y. Ileal hyperplastic responses to starvation in the rat. *Am J Physiol.* 251:G124-131, 1986.
69. Yeh, K-Y, **Holt PR**. Ontogenic timing mechanism initiates the expression of rat intestinal sucrase activity. *Gastroenterology.* 90:520-526, 1986.

70. **Holt PR**, Fairchild BM, Weiss J. A liquid crystalline phase in human intestinal contents during fat absorption. *Lipids*. 21:444-446, 1986.
71. Yeh, K-Y, Du FW, **Holt PR**. Endogenous corticosterone rather than dietary sucrose as a modulator for intestinal sucrose activity in artificially reared rat pups. *J Nutr*. 116:1334-1342, 1986.
72. **Holt PR**, Kotler DP. Adaptive changes of intestinal enzymes to nutritional intake in the aging rat. *Gastroenterology*. 93:195-200, 1987.
73. Yeh K-Y, Yeh M, **Holt PR**. Hormonal regulation of adaptive hypertrophy in the intestine of artificially reared rat pups. *Am J Physiol*. 253:G802-808, 1987.
74. **Holt PR**. What to feed the patient with an aging GI tract. *Pract Gastroenterol*. XI:17, 1987.
75. **Holt PR**. Ethical decisions in gastroenterologic problems in old age. Symposium on Ethics. World Congress of Gastroenterology, Sao Paulo, Brazil. *Scand J Gastroenterol*. 23(144):103, 1988.
76. Telfer S, Fenyo G, **Holt PR**, De Dombal FT. Acute abdominal pain in patients over 50 years of age. *Scand J Gastroenterol*. 23(144):47-50, 1988.
77. **Holt PR**, Yeh K-y, Kotler DP. Altered controls of proliferation in small intestine of the senescent rat. *Proc Natl Acad Sci USA*. 85:2771-2775, 1988.
78. Culpepper-Morgan J, Kreek MJ, **Holt PR**, LaRoche D, Zhang J, O'Bryan L. Orally administered kappa as well as mu opiate agonists delay gastrointestinal transit time in the guinea pig. *Life Sci*. 42:2073-2077, 1988.
79. Greenberg RE, McCann PP, **Holt PR**. Trophic responses of the pancreas differ in aging rats. *Pancreas*. 3:311-316, 1988.
80. **Holt PR**, Thea D, Yang M, Kotler DP. Intestinal and metabolic responses to an alpha-glucosidase inhibitor in normal volunteers. *Metabolism*. 37:1163-70, 1988.
81. **Holt PR**. Perspectives on upper gastrointestinal disease in the elderly. Symposium on perspectives on upper GI diseases in the elderly: strategies for treatment. *Pract Gastroenterology*. XII:S5-12, 1988.
82. **Holt PR**, Yeh KY. Colonic proliferation is increased in senescent rats. *Gastroenterology*. 95:1556-63, 1988.
83. **Holt PR**, Yeh KY. Small intestinal crypt cell proliferation rates are increased in senescent rats. *J Gerontol*. 44:B9-B14, 1989.

84. **Holt PR**, Yeh KY. Aging and gastrin production: Changes in serum and antral gastrin concentrations in the rat. *J Gerontol.* 44:M62-65, 1989.
85. Yeh K-Y, Yeh M, **Holt PR**. Induction of intestinal differentiation by systemic and not by luminal corticosterone in adrenalectomized rat pups. *Endocrinology.* 124:1898-1904, 1989.
86. Rubinoff MJ, Piccione PR, **Holt PR**. Clonidine prolongs human small intestinal transit time: Use of the lactulose-breath hydrogen test. *Am J Gastroent.* 84:372-374, 1989.
87. Yeh K-Y, Yeh M, **Holt PR**. Induction of rat jejunal epithelial cell expression of sucrose-isomaltase by glucocorticoids in primary cell culture and in vivo. *Biol of Cell.* 65:139-150, 1989.
88. Yeh K-Y, Yeh M, **Holt PR**. Differential effects of thyroxine and cortisone on jejunal sucrase expression in suckling rats. *Am J Physiol.* 256:G604-612, 1989.
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## **ABSTRACTS**

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