

CURRICULUM VITAE

Leonard R. Johnson, Ph.D.

TITLE: Vice Chancellor for Research
Thomas A. Gerwin Professor of Physiology
The University of Tennessee Health Science Center

ADDRESS: 726 Island Forty Road
Memphis, Tennessee 38127

BIRTHPLACE: Chicago, Illinois, U.S. citizen

UNDERGRADUATE EDUCATION:

1959 – 1963, A.B. Wabash College, Crawfordsville, Indiana
Major - Zoology
Minor - Chemistry and English

GRADUATE EDUCATION:

1963 – 1967, Ph.D. University of Michigan, Ann Arbor, Michigan:
Physiology. Doctoral research was done under the direction of Dr.
H. W. Davenport. Thesis: The role of histamine during damage to the
gastric mucosa.

POSTGRADUATE TRAINING:

1967 - 1969 UCLA and Veterans Administration Center, Los Angeles, California.
Postdoctoral Fellow in the laboratory of Dr. Morton I. Grossman.

ACADEMIC APPOINTMENTS:

1967 - 1969 Instructor, Department of Physiology, University of California,
Los Angeles

1969 - 1971 Assistant Professor, Department of Physiology, University of
Oklahoma Medical School, Oklahoma City, Oklahoma

1971 - 1972 Associate Professor, Department of Physiology, University of
Oklahoma Medical School, Oklahoma City, Oklahoma

1972 - 1989 Professor, Department of Physiology and Cell Biology, The University
of Texas Medical School at Houston, Houston, Texas

1977 - 1979 Acting Chairman, Department of Physiology, The University of

1987 Texas Medical School at Houston, Houston, Texas

1989-2005 Chairman, Department of Physiology, University of Tennessee Health
Science Center, Memphis, Tennessee

- 1989 - Thomas A. Gerwin Professor, Department of Physiology, University of Tennessee at Memphis, Memphis, Tennessee
- Sept 2005 - Interim Vice Chancellor for Research, University of Tennessee
March 2006 Health Science Center, Memphis, Tennessee
- March 2006 - Vice Chancellor for Research, University of Tennessee Health Science Center, Memphis, Tennessee

PROFESSIONAL ORGANIZATIONS:

American Physiological Society

1. Steering Committee, Gastrointestinal Section, 1975 - 1978
2. President, Gastrointestinal Section, 1978
3. Program Committee, 1976 - 1978
4. Publications Committee, 1984 - 1987; Chairman, 1993 - 1998
5. FASEB Publications Committee - Representative of the American Physiological Society, 1985 - 1988
6. Committee on Committees 1988 - 1991
7. NIPS Managing Board, Chairman, 1993 - 1998
8. Council, Ad Hoc Member, 1993 - 1998
9. Finance Committee, Ad Hoc Member, 1993 - 1998
10. Nominating Committee, Ad Hoc Member, 1993 - 1998
11. National Organizing Committee International Union of Physiological Sciences 2005, 2002-2005

Society for Experimental Biology and Medicine

American Gastroenterological Association

1. Selection Committee for Abstract Presentations, 1976 - 1977; 1986 - 1987; 1993 - 1994
2. Research Committee, 1977 - 1979; 1985 - 1988
3. Selection Committee, AGA-Industry Scholarship Program, 1983 - 1986
4. Nominating Committee, 1987

Gastroenterology Research Group

1. Steering Committee, 1976 - 1981
2. President, 1980 - 1981

Gastroenteric Biology Society

1. Advisory Board 1988 - 1991
2. Organizing Committee for Third International Conference 1989-
Chairman 1990

American Society for Cell Biology

HONORS AND AWARDS:

Rorer Prize 1969 (original research in the field of gastroenterology)

Pfizer Lecturer 1972 to Australian Gastroenterological Society

NIH Research Career Development Award 1972 - 1977

Hoffman-LaRoche Prize 1979 for outstanding research contributions in GI physiology -
American Physiological Society

Among 1000 most cited scientists in the world 1965 - 1978. Current Contents 41:
October 12, 1981, p. 5-14

Dean's Teaching Excellence Award, University of Texas College of Medicine: 1984,
1985, 1986, 1987

Chairman, Physiology Test Committee, National Board of Medical Examiners, 1988 -
1991

NIH MERIT Award, 1988-1996

"Distinguished Faculty Lecturer" - University of Colorado School of Medicine, 1989

Thomas A. Gerwin Chair of Excellence in Physiology, University of Tennessee College
of Medicine, 1989 -

Honorary Member, Polish Physiological Society, 1990

Doctor of Medicine, Honoris Causa, Copernicus Medical School, Cracow, 1990

Golden Apple Award, Class of 1994 UT Memphis College of Medicine

First Annual Award for Excellence in Research, Runner-Up Memphis Area Health Industry Council and the Memphis Health Care News, 1993

The Horace W. Davenport Distinguished Lectureship, American Physiological Society, 1995.

R. D. McKenna Memorial Lectureship, Canadian Association of Gastroenterology, 1996.

State-of-the-Art-Lecturer, Intestinal Disorders Section of the American Gastroenterological Association, Digestive Diseases Week, 1997.

State-of-the-Art-Lecturer, Gastro'99 – Pan-American Congress of Gastroenterology, 1999.

Keynote Lecturer, 2nd Annual Dean's Symposium, University of Tennessee College of Medicine, 2004.

NIH MERIT Award, 2006-2016

John H. Walsh Memorial Lecturer, UCLA College of Medicine, April 2006

EDITORIAL BOARDS AND JOURNAL ACTIVITIES:

Member of Selected Summary Staff of Gastroenterology, 1970-1975

Editorial Board - Gastroenterology, 1973-1978

Editorial Board - American Journal of Physiology, 1973-1977

Editorial Board - Journal of Applied Physiology, 1973-1977

Associate Editor - American Journal of Physiology: Endocrinology and Gastrointestinal Physiology, 1976-1979

Editor - American Journal of Physiology: Gastrointestinal and Liver Physiology, 1979-1985; Editorial Board, 1985-

Publications Committee, American Physiological Society, 1984-1987; Chairman, 1993 - 1998

Publications Committee, FASEB, 1985-1988

Editorial Board, Proc. Soc. Exp. Biol. and Med. 1986-1990

Editorial Board, Advances in Physiology Education 1988-1992

Associate Editor, Proc. Soc. Exp. Biol. Med., 1990-1997

Editorial Board, Journal of Physiology and Pharmacology, 1990-

NIPS Managing Board, Chairman, 1993-1998

Editorial Board, World Journal of Gastroenterology 2003-

NATIONAL COMMITTEES AND PANELS:

NIAMDD Executive Committee for Evaluation of Digestive Diseases Research, 1974-1975

NIH Study Section General Medicine A. Gastroenterology and Clinical Nutrition, 1975-1978.

Committee on Research: Targeted and Non-Directed, National Commission on Digestive Diseases, 1977-1978

Co-Chairman, Basic Science Research Workgroup, National Commission on Digestive Diseases, 1977-1978

Committee to Evaluate the NIH Genetic Resource, 1978-1979

Member, NIH Study Section: Gastroenterology and Clinical Nutrition, 1980-1981

National Board of Medical Examiners; Physiology Test Committee, 1983-1987; Chairman 1988-1991

Veterans Administration Merit Review Board, 1987-1991

Morton I. Grossman Distinguished Lectureship Advisory Committee 1989-

NIH Reviewers Reserve 1995-1999

Member NIH Study Section, General Medicine A2, 1999- 2003

FELLOWSHIPS AND GRANTS: (Figures are direct costs only)

NIH Predoctoral Fellow 1965-1967

NIH Postdoctoral Fellow 1967-1969

Grant from G.A. Manahan Trust Fund, \$10,000, January 1970-June 1971. Effects of GI hormones on metabolism of gastrointestinal mucosa

NIH Grant AM 14392, July 1970-August 1973, \$120,000. The effects of gastrin on amino acid uptake in gastrointestinal mucosa

NIH Research Career Development Award No. AM 28972, 1972-1977

NIH Grant No. AM 16505, September 1, 1973-November 30, 1977, \$150,000. GI hormones on growth and metabolism of GI mucosa

NIH Grant No. AM 18164, June 1, 1975-July 31, 1978, \$120,000. Role of food in the gut in GI function and development

NIH Grant No. AM 16505-06-10, December 1, 1977-November 3, 1982, \$415,000

NIH Grant No. AM 18164-04-07, August 1, 1987-July 31, 1982, \$228,000

NIH Grant No. AM 18164-08-12, August 1, 1978-July 31, 1987, \$482,000

NIH Grant No. AM 16505-11-15, April 1, 1983-March 31, 1988, \$589,500

NIH Program Project AM 37260-01-05, July 1, 1986-June 30, 1992, total \$3,812,529. Subsumes NIH Grant AM 18164 year 12. Costs for own project in program are \$815,000. Program Project Director

NIH Grant No. DK 16505-16-20, April 1, 1988-March 31, 1993, \$867,221. MERIT Award status

NSF Grant from Academic Research Infrastructure Program for Renovation and Equipment, 1993-1994, \$719,000

NIH Grant No. DK 37260-06-10, July 1, 1992-June 30, 1997; \$673,000

NIH Grant No. DK 16505-21-24, April 1, 1993 - March 31, 1996, \$551,250, MERIT Award status.

Department of Education, Graduate Achievement Program for Women and Minorities, May 1, 1993-April 30, 1995; \$200,000

NIH Grant No. DK 16505-25-28, April 1, 1996 - March 31, 2000; \$959,323

NIH Grant No. DK 52784-01-05, September 1, 1997 - August 31, 2002; \$918,440

NIH Grant No. DK16505-29-33, April 1, 2000 – March 31, 2005; \$1,423,262

Univ. Tennessee Center of Excellence in Genomics and Bioinformatics, January 1, 2001 - December 31, 2005; \$10,000,000; Co-director

NIH Grant No. DK 52784-06-10, September 1, 2002 - August 31, 2007; \$1,247,647

NIH Grant No. DK 16505-34-38, April 1, 2005 – March 31, 2010; \$1,729,275, MERIT Award

INTERNATIONAL SYMPOSIA (INVITED SPEAKER):

Brooke Lodge International Symposium on the Gastric Mucosal Barrier, Kalamazoo, Michigan, August 1969

Recent Advances in the Physiology of Gastrointestinal Hormones, American Physiological Society and Eli Lilly Co., Indianapolis, Indiana, September 1970

The Stomach. Canberra, Australia, Pfizer Lecturer, October 1972. Recent Progress in Gastrointestinal Hormones, Rochester, New York, August 1973

H₂ Antagonists. London, England, October 1973

J. Earl Thomas Memorial Symposium, "Functions of the Stomach and Intestine," Philadelphia, Pennsylvania, November 1973

International Symposium on the Chemistry and Metabolism of Gastrointestinal Hormones, Galveston, Texas, October 1974

Gastrointestinal Hormones: Physiological Implications (Chairman and Organizer). FASEB, Anaheim, California, April 1976

First International Symposium on Gastrointestinal Hormones. (Member of Organizing Committee, Session Chairman) Asilomar, California, October 1976

Gastrins and the Vagus. (Main Speaker and Session Chairman) The University of Aarhus, Aarhus, Denmark, August 1978

Second International Symposium on Gastrointestinal Hormones. Oslo, Norway, September 1978

Second International Symposium on Hormone Receptors in Digestive Tract Physiology, Montpellier, France, May 1979

Hiroshima Symposium on Gut Hormones, Hiroshima, Japan, July 1979

International Conference on Hydrogen Ion Transport in Epithelia, Frankfurt, Germany, July 1980 (Session Chairman)

Second International Symposium on Intestinal Adaptation, Titisee, Germany, May 1981

International Symposium on Brain-Gut Axis: The New Frontier, Florence, Italy, June 1981

International Symposium on Intestinal Adaptation, London, England, March 1982

International Conference on Hydrogen Ion Transport in Epithelia, Honolulu, Hawaii, 1983

Third Annual Bristol Myers Symposium on Nutrition Research: "The Role of the GI Tract in Nutrient Delivery," Washington, D.C., December 1983

Fifth International Symposium on GI Hormones (Member, National Scientific Committee, Chairman of Plenary Session) Rochester, MN, October 1984

Gastrin/CCK Workshop, Ann Arbor, MI, October 1984. Regulatory Peptides: Mode of Action on Digestive Nervous and Endocrine Systems, Gouvieux-Chantilly, France, May 1985

FASEB Summer Research Conference: "Gastrointestinal Differentiation," Saxton's River, Vermont, July 1985

4th annual meeting of "Regulation and Disturbances of Gastrointestinal Function. Tokyo, Japan, September 1985 - Principal Speaker

FASEB Summer Research Conference: "Gastrointestinal Tract II: Growth and Adaptation." Copper Mountain Colorado. Conference organizer, session chairman, July 1987

International Symposium on Gastrin and Cholecystokinin. Cap D'Agde, France, September 1987

"Adaptation and Development of Gastrointestinal Function." Cambridge, England. Session chairman, September 1987

Avances en Fisiologia Gastrointestinal en Salud Y Enfermad. Sponsored by UNESCO-CLAB. Caracas, Venezuela, February, 1989

The Second Galveston International Symposium on "Gastrointestinal Endocrinology: Receptors and Post-Receptor Mechanisms." Galveston, Texas, Session Chairman, April 1989

Second International Conference on Gastroenteric Biology, Chicago, November 1989

Polish Physiological Society, "Plenary Lecture" and "Special Invited Lecture," Cracow, Poland, September 1990

Third International Conference on Gastroenteric Biology - Conference Organizer and Speaker, Chicago, October 1990

Italian Society of Parenteral and Enteral Nutrition, Plenary Lecture, Bari, Italy, September 1991

Conference on Gastrin, Organizing Committee, Session Chairman, Speaker, Dana Point, California, February 1992

FASEB Summer Research Conference, "The Molecular Basis of Gastric Mucosal Defense." Copper Mountain, Colorado, July 1992

FASEB Summer Research Conference, "Physiology and Pathophysiology of the Splanchnic Circulation." Copper Mountain, Colorado, July 1992

Interactions in the Practice of Internal Medicine and Endocrinology" Capri, Italy, September 1994, Scientific Committee and Session Chairman

FASEB Summer Research Conference, "The Cellular and Molecular Basis of Gastrointestinal Defense." Saxtons River, Vermont, August 1995.

International Congress of Physiological Sciences. Organizer and Speaker, Symposium: "Gut Growth and Differentiation", St. Petersburg, Russia, July 1997.

2nd European Congress on Polyamines, Speaker - Rimini Italy, June 2000.

American Federation for Medical Research. State-of-the-art lecturer. Carmel, California, February 2005.

Gordon Conference, Polyamines. Featured speaker – New London, Connecticut, June 2005.

ACADEMIC COMMITTEES - THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER:

Interfaculty Council, 1981-1983

ACADEMIC COMMITTEES - THE UNIVERSITY OF TEXAS MEDICAL SCHOOL:

Animal Care Committee, 1972-1974

Curriculum Committee, 1972-1974, 1976-1978

Student Promotions and Evaluation Committee, 1974-1977; Chairman 1976-1977

Faculty Senate, 1976-1979; 1979-1982

Administrative Council, 1977-1979, 1987

Faculty Promotions and Tenure Committee, 1977-1980; 1982-1983. Chairman, 1978-1979

Committee on Committees, 1980, 1983

Surgery Search Committee, 1981

Pharmacology Department Review Committee - Chairman 1981

Biomedical Research Support Committee, 1983-1986, Chairman, 1986

Committee to Evaluate Second Year Curriculum 1988-1989, Co-chairman

ACADEMIC COMMITTEES - THE UNIVERSITY OF TEXAS GRADUATE SCHOOL OF BIOMEDICAL SCIENCE:

Academic Standards, 1987-1989

ACADEMIC COMMITTEES - THE UNIVERSITY OF TENNESSEE COLLEGE OF MEDICINE

Administrative Council, 1989-2005

Advisory Committee for Search for a New Dean, 1990

Administrative Council Executive Committee, 1991-1994

Clinical Research Center Task Force, 1992

Advisory Committee for Search for Chairman, Department of Internal Medicine, 1992

Clinical Research Center Advisory Committee, 1992-1994

Departmental Review Task Force, 1993-1994

Advisory Committee for Search for Chairman, Department of Pharmacology, 1994-1996

Advisory Committee for Search for Dean, College of Medicine, 1997-1998

Chairman of Advisory Committee for Search for Chairman, Department of Molecular Sciences 2000-2001

Ad hoc Committee for the Review of Faculty Evaluation 2002-2003

Advisory Committee for Search for Chancellor, University of Tennessee Health Science Center 2003

Advisory Committee for University of Tennessee Cancer Institute 2003-

ACADEMIC COMMITTEES - THE UNIVERSITY OF TENNESSEE GRADUATE COLLEGE

Graduate Council, 1989-2005

Policy Subcommittee, 1989-1995

Task Force for Development of a Core Curriculum, Chairman, 1997

ACADEMIC COMMITTEES - THE UNIVERSITY OF TENNESSEE

Advisory Board - The University of Tennessee Research Corporation, 1993-

ADDITIONAL SERVICE

Crippled Children's Foundation Research Center Scientific Advisory Committee -
LeBonheur Hospital, 1994-

Search Committee for Scientific Director of Crippled Children's Foundation
Research Center, 1997

Board of Directors, InMotion Musculoskeletal Institute

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:

Lenard M. Lichtenberger, Ph.D., 1971 Ali Banan, Ph.D., 1995

Linda D. Sander, Ph.D., 1972 Qing Yuan, 2000

Daniel B. Burnham, Ph.D., 1981 Shi Jin, 2007

Chi-Chuan Tseng, Ph.D., 1986

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

Louis Bussjaeger, Ph.D. 1970-1972

M. Rebecca Enochs, Ph.D. 1972-1976

Linda D. Sander, Ph.D. 1972-1976

David Wiseman, Ph.D. 1975-1976

Geoffrey P. Ryan, M.D. April 1976-June 1978

Bithi Sircar, Ph.D. November 1976-May 1979

Arthur Dembinski, M.D. April 1977-May 1979

Koji Takeuchi, Ph.D. September 1977-June 1980

Rainer Ecknauer, M.D. October 1977-June 1979

Werner Peitsch, M.D. April 1979-April 1980

Gail R. Speir July 1979-June 1982

Minoru Ikezaki, M.D.	May 1980-June 1981
Edward R. Seidel, Ph.D.	June 1980-October 1983
Nancy O. McNiel, Ph.D.	October 1982-May 1985
Toshiharu Yamaguchi, Ph.D.	November 1982-May 1985
Keiichi Tabata, Ph.D.	January 1984-September 1985
Leo Fitzpatrick, Ph.D.	October 1984-September 1986
Junichi Kumagai, Ph.D.	January 1986-December 1987
Chi-Chuan Tseng, M.D., Ph.D.	June 1986-July 1987
Michelle Ulrich-Baker, Ph.D.	August 1986-September 1988
Jian-Ying Wang, Ph.D.	March 1988-September 1992
Zygmunt Warzecha, M.D.	October 1988-December 1989
Barbara Zimmerman, Ph.D.	September 1993-November 1996
Marinilce F. Santos, Ph.D.	August 1994-February 1997
Ronald Parker, Ph.D.	March 1995-March 1996
Ramesh Ray, Ph.D.	October 1996-October 1998
Anami Patel, Ph.D.	May 1997-July 1999
Wen-Lin Deng, Ph.D.	January 2000 – June 2005
Qing Yuan, Ph.D.	June 2000 -September 2001
Hua-zhang Guo, M.D.	January 2002-January 2003; January 2005 – January 2006
Sujoy Bhattacharya, Ph.D.	May 2002-
Rajivkumar Vaidya, Ph.D.	June 2004-July 2006
Shi Jin, M.D., Ph.D.	December 2007
Bertha Elias, Ph.D.	January 2008

PATENTS

US Patent No. 6, 498, 192 (Dec 24, 2002) "Prevention of Apoptosis in Non-cancerous Cells", L. R. Johnson, R. M. Ray and M. J. Viar.

US Patent No. 6,936,637 (Aug 30, 2005) Divisional Patent of above.

VISITING SCIENTISTS:

Stanislaw J. Konturek, M.D.	1971-1972, University of Krakow, Poland
Adhip Nandi Majumdar, Ph.D.	September 1980-October 1981, University of Aarhus, Denmark
Artur Dembinski, M.D.	May 1983-November 1983, University of Krakow, Poland
Charles H.R. Thirumalai, Ph.D.	September 1985-August 1986, University of the West Indies, Kingston, Jamaica
Kimikazu Iwami, Ph.D.	July 1989-March 1989, Kyoto Prefectural University, Kyoto, Japan

PUBLICATIONS OF LEONARD R. JOHNSON

A. JOURNAL ARTICLES

1. L.R. Johnson. Histamine liberation by gastric mucosa of pylorus-ligated rats damaged by acetic or salicylic acids. *Proc. Soc. Exp. Biol. Med.* 121: 384-386, February 1966.
2. L.R. Johnson and B.F. Overholt. Release of histamine into gastric venous blood following injury by acetic or salicylic acid. *Gastroenterology* 52: 505-509, March 1967.
3. L.R. Johnson. The source of histamine released during damage to the gastric mucosa by acetic acid. *Gastroenterology* 54: 8-15, January 1968.
4. L.R. Johnson and M.I. Grossman. Secretin: The enterogastrone released by acid in the duodenum. *Am. J. Physiol.* 215: 885-888, October 1968.
5. G.F. Steining, L.R. Johnson, and M.I. Grossman. A comparison of the effect of secretin on acid and pepsin secretion in the cat and dog. *Gastroenterology* 56: 468-475, March 1969.
6. L.R. Johnson and M.I. Grossman. Potentiation of the gastric acid response in dog. *Gastroenterology* 56: 687-692, April 1969.

7. L.R. Johnson, R.S. Jones, D. Aures, and R. Hakanson. The effect of antrectomy on gastric histidine decarboxylase activity in the rat. *Am. J. Physiol.* 216: 1051-1053, May 1969.
8. L.R. Johnson and M.I. Grossman. Effects of fat, secretin and cholecystokinin on histamine stimulated gastric secretion. *Am. J. Physiol.* 216: 1176-1179, May 1969.
9. D.B. Tumpson and L.R. Johnson. Effect of secretin and cholecystokinin on the response of the gastric fistula rat to pentagastrin. *Proc. Soc. Exp. Biol. Med.* 131: 186-188, May 1969.
10. L.R. Johnson, D. Aures and, L. Yuen. Pentagastrin-induced stimulation of protein synthesis in the gastrointestinal tract. *Am. J. Physiol.* 217: 251-254, July 1969.
11. G. Frank Stening, L.R. Johnson, and M.I. Grossman. The effect of cholecystokinin and caerulein on gastrin and histamine evoked gastric secretion. *Gastroenterology* 57: 44-50, July 1969.
12. A. Marvin Brooks, L.R. Johnson, and M.I. Grossman. Effect of secretin on gastric acid secretion stimulated by gastrin II, caerulein and desulfated caerulein. *Proc. Soc. Exp. Biol. Med.* 131: 1019-1021, July 1969.
13. J.F. Caren, D. Aures, and L.R. Johnson. Effect of secretin and cholecystokinin on histidine decarboxylase activity in the rat stomach. *Proc. Soc. Exp. Biol. Med.* 131: 1194-1197, September 1969.
14. L.R. Johnson and M.I. Grossman. Characteristics of the inhibition of gastric secretion by secretin. *Am. J. Physiol.* 217: 1401-1404, November 1969.
15. L.R. Johnson, D. Aures, and R. Hakanson. Effect of gastrin on the in vivo incorporation of ^{14}C -leucine into protein of the digestive tract. *Proc. Soc. Exp. Biol. Med.* 132: 996-998, December 1969.
16. L.R. Johnson and D.B. Tumpson. Effect of secretin on histamine stimulated secretion in gastric fistula rat. *Proc. Soc. Exp. Biol. Med.* 133: 125-127, January 1970.
17. L.R. Johnson, G. Frank Stening, and M.I. Grossman. The effect of sulfation on the gastrointestinal actions of caerulein. *Gastroenterology* 58: 208-216, February 1970.
18. L.R. Johnson and M.I. Grossman. Analysis of inhibition of acid secretion by cholecystokinin in dogs. *Am. J. Physiol.* 218: 550-554, February 1970.
19. A.M. Brooks, L.R. Johnson, and M.I. Grossman. Effect of combinations of histamine and pentagastrin on gastric secretion in man and dog. *Gastroenterology* 58: 470-475, April 1970.

20. D. Aures, L.R. Johnson, and L.W. Way. Gastrin: Obligatory intermeditate for activation of gastric histidine decarboxylase in the rat. *Am. J. Physiol.* 219: 214-216, July 1970.
21. L.R. Johnson and D. Aures. Evidence that histamine is not the mediator of acid secretion in the rat. *Proc. Soc. Exp. Biol. Med.* 134: 880-884, July 1970.
22. A.M. Brooks, L.R. Johnson, J. Spencer, and M.I. Grossman. Failure of desulfated caerulein to inhibit pentagastrin stimulated acid secretion. *Am. J. Physiol.* 219: 794-797, September 1970.
23. L.R. Johnson and M.I. Grossman (by invitation). Progress in Gastroenterology: Intestinal hormones as inhibitors of gastric secretion. *Gastroenterology* 60: 120-144, January 1971.
24. L.A. Harrison and L.R. Johnson. Analysis of inhibition of gastric secretion by acid in the duodenum. *Am. J. Physiol.* 220: 679-682, March 1971.
25. H.J. Moreland and L.R. Johnson. Effect of vagotomy on pancreatic secretion stimulated by endogenous and exogenous secretin. *Gastroenterology* 60: 425-431, March 1971.
26. L.R. Johnson (by invitation). Effect of gastric vagal denervation on inhibition of acid by secretin. *Am. J. Dig. Dis.* 16: 200-202, March 1971.
27. L.R. Johnson. Pepsin output from the damaged canine Heidenhain pouch. *Am. J. Dig. Dis.* 16: 403-407, May 1971.
28. S.J. Konturek, T.E. Solomon, W.G. McCeight, L.R. Johnson, and E.D. Jacobson. Effects of nicotine on gastrointestinal secretions. *Gastroenterology* 60: 1098-1105, June 1971.
29. L.R. Johnson (by invitation). Special Article. The control of gastric secretion: No room for histamine? *Gastroenterology* 61: 106-118, July 1971.
30. L.R. Johnson and L.A. Harrison. Comparison of exogenous secretin and duodenal acidification on pepsin secretion in dogs. *Am. J. Physiol.* 221: 784-787, September 1971.
31. S. J. Konturek and L.R. Johnson. Evidence for an enterogastric reflex for the inhibition of acid secretion. *Gastroenterology* 61: 667-674, November 1971.
32. T.E. Bynum, E.D. Jacobson, and L.R. Johnson. Gastrin inhibition of intestinal absorption in dogs. *Gastroenterology* 61: 858-862, December 1971.
33. L.R. Johnson. Pepsin secretion stimulated by topical hydrochloric and acetic acids. *Gastroenterology* 62: 33-38, January 1972.

34. L.R. Johnson. Pepsin secretion during damage by ethanol and salicylic acid. *Gastroenterology* 62: 412-416, March 1972.
35. S.J. Konturek, J. Dale, E.D. Jacobson, and L.R. Johnson. Mechanisms of nicotine-induced inhibition of pancreatic secretion of bicarbonate in dogs. *Gastroenterology* 62: 425-429, March 1972.
36. M.D. Stanley, R.E. Coalson, M.I. Grossman, and L.R. Johnson. Influence of secretin and pentagastrin on acid secretion and parietal cell number in rats. *Gastroenterology* 63: 264-269, August 1972.
37. T.E. Bynum, T.E. Solomon, L.R. Johnson, and E.D. Jacobson. Inhibition of pancreatic secretion in man by cigarette smoking. *Gut* 131: 361-365, September 1972.
38. L.R. Johnson. Regulation of pepsin secretion by topical acid in the stomach. *Am. J. Physiol.* 223: 847-850, October 1972.
39. A.M. Chandler and L.R. Johnson. Pentagastrin stimulated incorporation of ¹⁴C- orotic acid into RNA of gastric and duodenal mucosa. *Proc. Soc. Exp. Biol. Med.* 141: 110-113, October 1972.
40. L.R. Miller, E.D. Jacobson, and L.R. Johnson. Effect of pentagastrin on gastric mucosal cells grown in tissue culture. *Gastroenterology* 64: 254-267, February 1973.
41. L.R. Johnson (by invitation). Gastrin and parietal cell antibodies. *Aust. N. Zeal. J. Med.* 3: 214-215, April 1973.
42. L.R. Johnson and A.M. Chandler. RNA and DNA of gastric and duodenal mucosa in antrectomized and gastrin-treated rats. *Am. J. Physiol.* 224: 937-940, April 1973.
43. L.J. Bussjaeger and L.R. Johnson. Evidence for the humoral regulation of intestinal absorption by cholecystokinin. *Am. J. Physiol.* 224: 1276-1279, June 1973.
44. L. Lichtenberger, L.R. Miller, D.M. Erwin, and L.R. Johnson. The effect of pentagastrin on adult rat duodenal cells in culture. *Gastroenterology* 65: 242-251, August 1973.
45. L.R. Johnson. Effect of gastric mucosal acidification on the action of pepsinogues. *Am. J. Physiol.* 225: 1411-1415, December 1973.
46. G.A. Castro, L.R. Johnson, E.M. Copeland, and S.J. Dudrick. Development of enteric parasites in parenterally fed rats. *Proc. Soc. Exp. Biol. Med.* 146: 703-706, July 1974.

47. L.M. Schanbacher, L.R. Johnson, E.M. Copeland, S.J. Dudrick, and G.A. Castro. Glucose transport across the small intestine of parenterally nourished rats. *IRCS (Research on: Alimentary System; Metabolism and Nutrition; Physiology; Surgery and Transplantation)* 2: 1459, July 1974.
48. L. Lichtenberger and L.R. Johnson. Gastrin in the ontogenic development of the small intestine. *Am. J. Physiol.* 227: 390-395, August 1974.
49. N.W. Weisbrodt, E.M. Copeland, R.W. Kearley, E.P. Moore, and L.R. Johnson. Effects of pentagastrin on electrical activity of small intestine of the dog. *Am. J. Physiol.* 227: 425-429, August 1974.
50. L.R. Johnson and P.D. Guthrie. Mucosal DNA synthesis: A short term index of the trophic action of gastrin. *Gastroenterology* 67: 453-459, September 1974.
51. L.R. Johnson and P.D. Guthrie. Secretin inhibition of gastrin-stimulated deoxyribonucleic acid synthesis. *Gastroenterology* 67: 601-606, October 1974.
52. L.R. Johnson. What is physiological? An old approach. *Gastroenterology* 67: 1302-1303, December 1974.
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B. BOOK CHAPTERS

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