

BIOGRAPHICAL SKETCH

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NAME Joseph R. Reeve, Jr.	POSITION TITLE Professor		
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of California Los Angeles, CA	B.S.	1969	Chemistry
Long Beach State University, Long Beach, CA	M.S.	1972	Biochemistry
University of California Los Angeles, CA	Ph.D.	1977	Biological Chemistry
University of California Los Angeles, CA	Post Doc	1979	GI Peptide Research

A. Positions and Honors.**Positions and Employment**

1972 – 1977 Teaching Assistant, Dept. of Biological Chemistry, UCLA
 1977 – 1979 Postdoctoral Trainee, NIH-NIAMDD, Center for Ulcer Research and Education, UCLA
 1979 – 1981 Research Associate, Center for Ulcer Research and Edu., UCLA
 1979 – 1982 Assistant Research Chemist, UCLA School of Medicine
 1981 – 1985 Investigator, Center for Ulcer Research and Education, UCLA
 1982 – 1985 Adjunct Assistant Professor of Medicine, UCLA School of Medicine
 1985 – 1989 Adjunct Associate Professor of Medicine, UCLA School of Medicine
 1989 – 1991 Associate Professor of Medicine, UCLA School of Medicine
 1985 – Present Key Investigator, CURE: Center for Digestive Diseases Research, UCLA
 1988 – 2002 Director, CURE Peptide Biochemistry Laboratory
 1991 – Present Professor of Medicine, UCLA School of Medicine
 1992 – 2001 Director, UCLA Peptide Synthesis Core Facility
 1992 – Present Member, Jonsson Comprehensive Cancer Center, UCLA School of Medicine
 2002 – Present Director, CURE Peptidomic, RIA and Proteomic Laboratory

B. Selected peer-reviewed publications (in chronological order).

1. **Reeve JR Jr**, Walsh JH, Chew P, Clark B, Hawke D, Shively JE. Amino acid sequences of three bombesin-like peptides from canine intestine extracts. *J Biol Chem* 1983;258:5582-5588.
2. **Reeve JR Jr**, Eysselein V, Walsh JH, Ben-Avram CM, Shively JE. New molecular forms of cholecystokinin. Microsequence analysis of forms previously characterized by chromatographic methods. *J Biol Chem* 1986;261:16392-16397.
3. Eysselein VE, Eberlein GA, Hesse WH, Singer MV, Goebell H, **Reeve JR Jr**. Cholecystokinin-58 is the major circulating form of cholecystokinin in canine blood. *J Biol Chem* 1987;262:214-217.
4. **Reeve JR Jr**, Cuttitta F, Vigna SR, Heubner V, Lee TD, Shively JE, Ho FJ, Fedorko J, Minna JD, Walsh JH. Multiple gastrin-releasing peptide gene-associated peptides are produced by a human small cell lung cancer line. *J Biol Chem* 1989;264:1928-1932.
5. Eysselein VE, Eberlein GA, Schaeffer M, Grandt D, Goebell H, Niebel W, Rosenquist GL, Meyer HE, **Reeve JR Jr**. Characterization of the major form of cholecystokinin in human intestine: CCK-58. *Am J Physiol* 1990;258:G253-G260.
6. **Reeve JR Jr**, Eysselein V, Eberlein GA, Chew P, Ho FJ, Huebner VD, Shively JE, Lee TD, Liddle RA. Characterization of canine intestinal cholecystokinin-58 lacking its carboxyl-terminal nonapeptide. Evidence for similar post-translational processing in brain and gut. *J Biol Chem* 1991;266:13770-13776.
7. Huebner VD, Jiang RL, Lee TD, Legesse K, Walsh JH, Shively JE, Chew P, Azumi T, **Reeve JR Jr**. Purification and structural characterization of progastrin-derived peptides from a human gastrinoma. *J Biol Chem* 1991;266:12223-12227.

8. Collie NL, Walsh JH, Wong HC, Shively JE, Davis MT, Lee TD, **Reeve JR Jr.** Purification and sequence of rat oxyntomodulin. *Proc Natl Acad Sci USA* 1994;91:9362-9366.
9. **Reeve JR Jr.**, Eysselein VE, Rosenquist G, Zeeh J, Regner U, Ho FJ, Chew P, Davis MT, Lee TD, Shively JE, Brazer SR, Liddle RA. Evidence that CCK-58 has structure that influences its biological activity. *Am J Physiol* 1996;270:G860-G868.
10. Keire DA, Solomon TE, **Reeve JR Jr.** Identical primary sequence but different conformations of the bioactive regions of canine CCK-8 and CCK-58. *Biochem Biophys Res Commun* 1999;266:400-404.
11. Solomon TE, Walsh JH, Bussjaeger L, Zong Y, Hamilton JW, Ho FJ, Lee TD, **Reeve JR Jr.** COOH-terminally extended secretins are potent stimulants of pancreatic secretion. *Am J Physiol* 1999;276:G808-G816.
12. Guarita DR, Deng X, Huh YB, Wood PG, **Reeve JR Jr.**, Whitcomb DC. PYY regulates pancreatic exocrine secretion through multiple receptors in the awake rat. *Dig Dis Sci* 2000;45:1696-1702.
13. Keire DA, Kobayashi M, Solomon TE, **Reeve JR Jr.** Solution structure of monomeric peptide YY supports the functional significance of the PP-fold. *Biochemistry* 2000;39:9935-9942.
14. Keire DA, Mannon P, Kobayashi M, Walsh JH, Solomon TE, **Reeve JR Jr.** Primary structures of PYY, [Pro(34)]PYY, and PYY-(3-36) confer different conformations and receptor selectivity. *Am J Physiol Gastrointest Liver Physiol* 2000;279:G126.-131.
15. Solomon TE, Varga G, Zeng N, Wu SV, Walsh JH, **Reeve JR Jr.** Different actions of secretin and Gly-extended secretin predict secretin receptor subtypes. *Am J Physiol Gastrointest Liver Physiol* 2001;280:G88-94.
16. **Reeve JR Jr.**, McVey DC, Bunnett NW, Solomon TE, Keire DA, Ho FJ, Davis MT, Lee TD, Shively JE, Vigna SR. Differences in receptor binding and stability to enzymatic digestion between CCK-8 and CCK-58. *Pancreas* 2002;25:E50-55.
17. Keire DA, Solomon TE, **Reeve JR Jr.** NMR evidence for different conformations of the bioactive region of rat CCK-8 and CCK-58. *Biochem Biophys Res Commun* 2002;293:1014-1020.
18. Wang Y, Prpic V, Green GM, **Reeve JR Jr.**, Liddle RA. Luminal CCK-releasing factor stimulates CCK release from human intestinal endocrine and STC-1 cells. *Am J Physiol Gastrointest Liver Physiol* 2002;282:G16-22.
19. Keire DA, Bowers CW, Solomon TE, **Reeve JR Jr.** Structure and receptor binding of PYY analogs. *Peptides* 2002;23:305-21.
20. Glatzle J, Sternini C, Robin C, Zittel TT, Wong H, **Reeve JR Jr.**, Raybould HE. Expression of 5-HT3 receptors in the rat gastrointestinal tract. *Gastroenterology* 2002;123:217-26.
21. Solomon TE, Keire DA, Gong P, Zong Y, **Reeve JR Jr.** Receptor subtypes: species variations in secretin affect potency for pancreatic but not gastric secretion. *Pancreas* 2003;26:300-5.
22. **Reeve JR**, Keire DA, Coskun T, Green GM, Evans C, Ho FJ, Lee TD, Davis MT, Shively JE, Solomon TE. Synthesis of biologically active canine CCK-58. *Regul Pept* 2003;113:71-7.
23. Keire DA, Vincent Wu S, Diehl DL, Chew P, Ho FJ, Davis MT, Lee TD, Shively JE, Walsh JH, **Reeve JR.** Rat progastrin processing yields peptides with altered potency at the CCK-B receptor. *Regul Pept* 2003;113:115-24.
24. **Reeve JR Jr.**, Green GM, Chew P, Eysselein VE, Keire DA. CCK-58 is the only detectable endocrine form of cholecystokinin in rat. *Am J Physiol Gastrointest Liver Physiol* 2003;285:G255-65.
25. **Reeve JR Jr.**, Wu SV, Keire DA, Faull K, Chew P, Solomon TE, Green GM, Coskun T. Differential bile-pancreatic secretory effects of CCK-58 and CCK-8. *Am J Physiol Gastrointest Liver Physiol* 2004;286:G395-402.
26. **Reeve JR Jr.**, Liddle RA, McVey DC, Vigna SR, Solomon TE, Keire DA, Rosenquist G, Shively JE, Lee TD, Chew P, Green GM, Coskun T. Identification of nonsulfated cholecystokinin-58 in canine intestinal extracts and its biological properties. *Am J Physiol Gastrointest Liver Physiol* 2004;287:G326-33.
27. Rey O, **Reeve JR Jr.**, Zhukova E, Sinnott-Smith J, Rozengurt E. G protein-coupled receptor-mediated phosphorylation of the activation loop of protein kinase D: dependence on plasma membrane translocation and protein kinase Cepsilon. *J Biol Chem* 2004;279:34361-72.
28. Yamamoto M, **Reeve Jr JR**, Keire DA, Green GM. Water and enzyme secretion are tightly coupled in pancreatic secretion stimulated by food or CCK-58, but not by CCK-8. *Am J Physiol Gastrointest Liver Physiol* 2004; [Epub ahead of print]

C. Research Support

Ongoing Research Support

DK-41301 Rozengurt (PI)

12/01/99 – 11/30/04

NIH/NIDDK

Cure Digestive Diseases Research Center – Peptide Biochemistry Core

The major goals of this subproject is to provide CURE investigators with state of the art peptide and proteomic research techniques.

Role: Supervise the subproject, especially non-routine techniques, evaluate results, and advise CURE investigators on peptidomic, radioimmunoassay and proteomic techniques.

RO1 DK56805 Reeve (PI)

05/01/01 – 03/31/06

NIH/NIDDK

Gastrointestinal Physiology of PYY: Role of 3D Structure

The major goals of this grant is to determine the tertiary structures of Y1, Y2, and Y5 selective agonist and to evaluate the role of tertiary structure for expression of biological activity.

Role: PI

R01 DK33850 Reeve (PI)

03/01/2004 – 02/28/09

NIH/NIDDK

Gastrointestinal physiology of cholecystokinin

Investigates the structural differences between CCK-8 and CCK-58 that can effect bioactivity

The long term objectives of this project are to investigate whether processing from CCK-58 to CCK-8 changes the conformation of the active carboxyl-terminus and, in turn, modifies the intracellular signals stimulated when these peptides bind the CCK_A receptor, resulting in altered bioactivity.

Role: PI