

CURRICULUM VITAE

NAME JEAN-PIERRE RAUFMAN, MD

DATE/PLACE OF BIRTH MAY 25, 1951/PARIS, FRANCE

CITIZENSHIP USA

OFFICE ADDRESS DIVISION OF GASTROENTEROLOGY & HEPATOLOGY
UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE
22 S. GREENE STREET, N3W62
BALTIMORE, MD 21201-1595

OFFICE PHONE (410) 328-8728 **FAX** (410) 328-8315

E-MAIL jraufman@som.umaryland.edu

EDUCATION

1965-68	ERASMUS HALL HIGH SCHOOL BROOKLYN, NY	
1968-72	NEW YORK UNIVERSITY NEW YORK, NY	BA
1972-75	EINSTEIN COLLEGE OF MEDICINE BRONX, NY	MD

GRADUATE TRAINING

7/75-6/78	INTERNAL MEDICINE RESIDENT, MONTEFIORE HOSPITAL MEDICAL CENTER, BRONX, NY
7/78-6/80	GASTROENTEROLOGY FELLOW UNIVERSITY OF MICHIGAN, ANN ARBOR, MI
7/80-6/83	MEDICAL STAFF FELLOW DIGESTIVE DISEASES BRANCH, NIDDK, NIH BETHESDA, MD

ACADEMIC RANK

7/83-1987	ASSISTANT PROFESSOR OF MEDICINE STATE UNIVERSITY OF NEW YORK (SUNY)-HEALTH SCIENCE CENTER AT BROOKLYN (HSCB), NY
1987-1992	ASSOCIATE PROFESSOR (TENURED), SUNY-HSCB
1992-1996	PROFESSOR OF MEDICINE, SUNY-HSCB
1993-1996	PROFESSOR OF PHYSIOLOGY, DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS, SUNY-HSCB
1995-2002	JEROME S. LEVY PROFESSOR OF MEDICINE UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES LITTLE ROCK, AR
2002-	MOSES AND HELEN GOLDEN PAULSON PROFESSOR OF MEDICINE, AND PROFESSOR OF BIOCHEMISTRY & MOLECULAR BIOLOGY UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE BALTIMORE, MD

ATTENDING PHYSICIAN

7/83-4/96	KINGS COUNTY HOSPITAL, BROOKLYN, NY
7/83-4/96	UNIVERSITY HOSPITAL OF BROOKLYN, NY
11/95-9/02	UNIVERSITY HOSPITAL OF ARKANSAS, LITTLE ROCK
6/96-9/02	McCLELLAN VETERANS HOSPITAL, LITTLE ROCK, AR
10/02-	UNIVERSITY OF MARYLAND MEDICAL SYSTEM
10/02-	VA MARYLAND HEALTH CARE SYST., BALTIMORE, MD

ADMINISTRATIVE APPOINTMENTS

SUNY-HEALTH SCIENCE CENTER AT BROOKLYN
1990-96 DIRECTOR, GASTROINTESTINAL CELL BIOLOGY LABORATORY

1991-92	ACTING CHIEF, GASTROENTEROLOGY
1994-95	ACTING CHIEF, GASTROENTEROLOGY
1993-96	DIRECTOR OF MEDICINE, UNIVERSITY HOSPITAL-BROOKLYN
1993-96	PROGRAM DIRECTOR, THIRD-YEAR CLERKSHIP IN MEDICINE

UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES

1995-2002	DIRECTOR, DIVISION OF GASTROENTEROLOGY/HEPATOLOGY
1995-2002	PROGRAM DIRECTOR, GI FELLOWSHIP TRAINING PROGRAM
1996-2002	DIRECTOR, ENDOSCOPY CENTER AT UAMS
1998-2002	DEPT. OF INTERNAL MEDICINE, VICE-CHAIR FOR FINANCE

CENTRAL ARKANSAS VETERANS HEALTHCARE SYSTEM

1996-2002	CHIEF, DIVISION OF DIGESTIVE DISEASES AND NUTRITION
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UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE

10/2002-	HEAD, DIVISION OF GASTROENTEROLOGY & HEPATOLOGY
1/2003-	MEMBER, GREENEBAUM CANCER CENTER
9/2004-12	MEMBER, MUCOSAL BIOLOGY RESEARCH CENTER

MILITARY SERVICE 7/80-6/83 LT. COMMANDER, USPHS, BETHESDA, MD

CERTIFICATIONS NATIONAL BOARD OF MEDICAL EXAMINERS (# 161281)
(PART I-1973 PART II-1974 PART III-1976)
ABIM (CANDIDATE # 64402) IM 9/13/78; GI 10/10/81
ACLS (9/2010 – 6/2018)

MEDICAL LICENSES MARYLAND (# D25869) [ARKANSAS (# E-0770 inactive); MICHIGAN (# 430-103-9771 inactive); NEW YORK (# 127736 inactive)]

ASSOCIATIONS

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
AMERICAN ASSOCIATION FOR THE STUDY OF LIVER DISEASES
AMERICAN COLLEGE OF GASTROENTEROLOGY (FELLOW)
AMERICAN COLLEGE OF PHYSICIANS (FELLOW)
AMERICAN FEDERATION FOR MEDICAL RESEARCH
AMERICAN GASTROENTEROLOGICAL ASSOCIATION
AMERICAN PHYSIOLOGICAL SOCIETY
AMERICAN SOCIETY FOR CLINICAL INVESTIGATION (ELECTED 1994)
AMERICAN SOCIETY FOR GASTROINTESTINAL ENDOSCOPY
BROOKLYN GASTROENTEROLOGICAL ASSOCIATION (1984-1996)
(SECRETARY/TREASURER 1987-1990; PRESIDENT 1990-1995)
CENTRAL ARKANSAS GUT CLUB (1996-2002)
NEW YORK GASTROENTEROLOGICAL ASSOCIATION (1984-1996)
NEW YORK SOCIETY FOR GASTROINTESTINAL ENDOSCOPY (1984-1996)

HONORS/AWARDS

ENDOWED CHAIRS

JEROME S. LEVY PROFESSOR OF MEDICINE, UAMS 1996-2002
MOSES AND HELEN GOLDEN PAULSON PROFESSOR OF MEDICINE, UMB 2002-

RESEARCH

AGA/MERRELL-DOW RESEARCH SCHOLAR AWARD 1984-1987
YOUNG INVESTIGATOR AWARD-WORLD CONGRESS OF GASTRO - 1986
ROMA88 PRIZE FOR POSTER PRESENTATION AT XIII INTERNATIONAL
CONGRESS OF GASTROENTEROLOGY-1988
ABSTRACT SELECTION COMMITTEE/SESSION CHAIR-

HORMONES AND RECEPTORS - DDW 1992, 1993, 2010
SECRETION - DDW 1995, 1996
GUT ENDOCRINE HORMONES AND IBD – DDW 2011
AMERICAN SOCIETY FOR CLINICAL INVESTIGATION - 1994
BASIC SCIENCE PUBLICATION OF THE YEAR AWARD – DEPARTMENT OF
MEDICINE, UNIVERSITY OF MARYLAND - 2012

TEACHING OUTSTANDING EDUCATOR OF THE YEAR OF THE CLINICAL FACULTY-
SUNY-HEALTH SCIENCE CENTER AT BROOKLYN 1994-95
RED SASH AWARDS FOR MEDICAL STUDENT TEACHING – UAMS 2000, 2001
RESIDENCY EDUCATOR AWARD – UAMS – 2002
FUNCTIONAL SYSTEMS TEACHING AWARD – UNIVERSITY OF MARYLAND –
2008, 2009, 2010, 2011

SERVICE FOOD & DRUG ADMINISTRATION (FDA) ADVISORY SERVICE AWARD - 2012
DEPARTMENT OF VETERANS AFFAIRS SERVICE AWARD – JULY 2016
CHAIRMAN'S SPECIAL ACHIEVEMENT FACULTY AWARD – JUNE 2017

COMMITTEES

SUNY-HEALTH SCIENCE CENTER AT BROOKLYN

1984-86 CLINICAL RESEARCH CENTER ADVISORY COMMITTEE
1984-94 MEDICAL SCIENTIST TRAINING PROGRAM SELECTION COMMITTEE
1984-91 ADVISORY COMMITTEE FOR MEDICAL STUDENT RESEARCH FELLOWSHIPS
1985-92 REPRESENTATIVE TO EASTERN SECTION AFRC
1985-92 DEPARTMENT OF MEDICINE-HOUSESTAFF SELECTION COMMITTEE
1985-87 DEPARTMENT OF MEDICINE-HOUSESTAFF DISCIPLINARY COMMITTEE
1986-87 PRESIDENT'S TASK FORCE ON NUTRITION EDUCATION
1988-90 DEPT OF MEDICINE-EVALUATION OF CLINICAL COMPETENCE COMMITTEE
1988-96 DEPARTMENT OF MEDICINE-RESEARCH ADVISORY COMMITTEE
(CHAIR 1991-1996)
1991-96 COMMITTEE ON RESEARCH ALLOCATIONS
1991-96 COMMITTEE ON BIOHAZARDS
1993-96 DEPARTMENT OF MEDICINE -QUALITY ASSURANCE COMMITTEE (CHAIR)
1993-95 TASK FORCE ON MANAGED CARE
1993-94 2nd YEAR CURRICULUM-DIGESTIVE DISEASES SYSTEMS
1994-96 UHB COMMITTEE ON CLINICAL PATHWAYS (CHAIR)

UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES

1997-2000 DEPARTMENT OF INTERNAL MEDICINE PROMOTIONS COMMITTEE
1998-2002 CLINICAL RESEARCH CENTER ADVISORY COMMITTEE (CHAIR 1999-2002)
1998-2002 DEPARTMENT OF INTERNAL MEDICINE EXECUTIVE COMMITTEE
1999-2001 FACULTY GROUP PRACTICE – FINANCE AND OPERATIONS COMMITTEE
1999-2000 FACULTY GROUP PRACTICE EXECUTIVE COMMITTEE
1999-2001 RESEARCH COUNCIL

AMERICAN GASTROENTEROLOGICAL ASSOCIATION

1990-92 COUNCIL ON HORMONES AND RECEPTORS
1993-96 RESEARCH COMMITTEE
1996-2002 EDUCATION COMMITTEE (CHAIR, UTP/CTP SUBCOMMITTEE 1997-1999; CHAIR,
MULTI-MEDIA SUBCOMMITTEE 1999-2002)
2001-2002 GASTROENTEROLOGY TEACHING PROJECT COMMITTEE
2002-2009 DIRECTOR, GASTROENTEROLOGY TEACHING PROJECT (GASTROSLIDES)
MAY 2007 CO-DIRECTOR, AGA SPRING POST-GRADUATE COURSE
2013-14 AGA REGULATORY WORK GROUP
2014-16 AGA GOVERNMENT AFFAIRS COMMITTEE

AMERICAN ASSOCIATION FOR THE STUDY OF LIVER DISEASE
2013 SESSION CHAIR – 23rd ANNUAL ARIAS SYMPOSIUM

UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE
2002- DEPARTMENT OF MEDICINE LEADERSHIP COMMITTEE
2004 SEARCH COMMITTEE - DEPARTMENT OF SURGERY CHAIR
2004-2006 SCHOOL OF MEDICINE COUNCIL REPRESENTATIVE
2005- UMMC ADMINISTRATIVE AFFAIRS COMMITTEE
2006- DEPARTMENT OF MEDICINE PROMOTION AND TENURE COMMITTEE
2008-2016 MEDICAL SCIENTIST TRAINING PROGRAM ADVISORY COMMITTEE
2008 VA MARYLAND HCS GENETICS AND COLON CANCER ADVISORY COMMITTEE
2011-2012 SEARCH COMMITTEE – HEAD, DIVISION OF CARDIOVASCULAR MEDICINE
2013 SEARCH COMMITTEE – CHAIR. DEPARTMENT OF PSYCHIATRY
2013 UMSOM-PASSANO CLINICIAN SCIENTIST AWARD COMMITTEE
2014 SEARCH COMMITTEE – DIRECTOR, GERONTOLOGY/GRCC
2016- RESEARCH AFFAIRS ADVISORY COMMITTEE
2018 PROMOTION AND TENURE APPEALS COMMITTEE

INVITED PRESENTATIONS AT NATIONAL AND INTERNATIONAL MEETINGS

1986 ENDOSCOPY IN PATIENTS WITH AIDS - WORLD CONGRESS OF GASTROENTEROLOGY- SAO PAULO, BRAZIL
1989 ENDOSCOPY IN AIDS, ODYNOPHAGIA/DYSPHAGIA IN AIDS, PEMEX GASTROENTEROLOGY COURSE-MEXICO CITY, MEXICO
1993-94 AMERICAN GASTROENTEROLOGICAL ASSOCIATION ANNUAL MEETINGS, MEET-THE-PROFESSOR SESSIONS
1995 CURRENT PERSPECTIVES IN ACID INHIBITORY THERAPY, YALE UNIVERSITY SCHOOL OF MEDICINE SYMPOSIUM
1996 THE BIOLOGICAL AND CLINICAL RELEVANCE OF H. PYLORI, YALE UNIVERSITY SCHOOL OF MEDICINE SYMPOSIUM
1998 SCREENING FOR COLORECTAL CANCER, SHANGHAI MEDICAL SOCIETY, PRC
2017 VA CELLOMICS COLLABORATIVE ON COLORECTAL CANCER (VA4C), VA BLR&D/CSR&D, CHICAGO, IL

REVIEWER

AMERICAN JOURNAL OF GASTROENTEROLOGY; AMERICAN JOURNAL OF MEDICINE; AMERICAN JOURNAL OF PHYSIOLOGY; ANNALS OF INTERNAL MEDICINE; BIOCHEMICAL PHARMACOLOGY; DIGESTIVE DISEASES AND SCIENCES; DIGESTION; ENDOCRINOLOGY; EUROPEAN JOURNAL OF CLINICAL INVESTIGATION; GASTROENTEROLOGY; GASTROINTESTINAL ENDOSCOPY; JOURNAL OF CLINICAL INVESTIGATION; KIDNEY INTERNATIONAL; MICROBIAL PATHOGENS; PROCEEDINGS OF THE SOCIETY FOR EXPERIMENTAL BIOLOGY AND MEDICINE; TUMOR BIOLOGY; JOURNAL OF BIOLOGICAL CHEMISTRY; PLoS ONE; DUTCH DIGESTIVE FOUNDATION; MOLECULAR CARCINOGENESIS; SCIENCE TRANSLATIONAL MEDICINE; ONCOTARGET.

FEDERAL AND OTHER REVIEW PANELS

JULY 2005 – SEPT 2008 NIDDK NRSA - ZRG1 F10 (CHAIR, 2007 - 2008)
DEC 2006, MAR 2009, NIDDK P30 SILVIO CONTE DIGESTIVE DISEASES
DEC 2011 RESEARCH CORE CENTERS (AD HOC)
OCT 2007 ZRG1 DIG-B-02S-CLINICAL SPECIAL EMPHASIS PANEL
JUNE 2008 GASTROINTESTINAL CELL AND MOLECULAR BIOLOGY
NIDDK STUDY SECTION (AD HOC REVIEWER)
OCT 2008, DEC 2009 NIDDK ZRG1 DIG-A (50) R NATIVE AMERICAN
RESEARCH CENTERS FOR HEALTH (NARCH) (CHAIR,
DEC. 2009)
JUNE 2010 – JUNE 2012 NIDDK-C (AD HOC)
MAY 2009 – JUNE 2012 FDA GI DRUG ADVISORY COMM. (CHAIR 2010 - 2012)

OCT 2012 – JUNE 2017	CHAIR, NIH NIDDK DDK-C STUDY SECTION
MAR 2014	SBIR/STTR STUDY SECTION ZRG 1 DKUS A 10 B
DEC. 2014-2016	VA GI ONCOLOGY STUDY SECTION (AD HOC)
DEC. 2015	NIH DIRECTOR'S NEW INNOVATOR AWARD PROGRAM
JULY 2015	DUTCH DIGESTIVE FOUNDATION
JULY 2015 - 2019	CHAIR, FDA GI DRUG ADVISORY COMMITTEE
DEC. 2016 - 2018	NIH DIRECTOR'S NEW INNOVATOR AWARD PROGRAM

EDITORIAL BOARDS AMERICAN JOURNAL OF PHYSIOLOGY; GI AND LIVER PHYSIOLOGY (1994-97)
CLINICAL CORNERSTONE, GUEST EDITOR, *LIVER DISORDERS* (2001)
GASTRO-INTESTINAL CANCER: TARGETS AND THERAPY (2010 -)
WORLD JOURNAL OF GASTROINTESTINAL PATHOPHYSIOLOGY (2011 - 2019)
ADVANCES IN MOLECULAR IMAGING (2011-)
FRONTIERS IN GASTROINTESTINAL SCIENCES (2011-)
THE JOURNAL OF CLINICAL INVESTIGATION (2018-2022)

PATENTS *Hybrid Cholinergic Agents and Compositions, Methods of Making, and Methods of Using to Treat a Cholinergic Disorder*
US PATENT #6,624,155 ISSUED 9/23/2003.

Method for Inhibiting Cancer Cell Proliferation or Increasing Cancer Cell Apoptosis
US PATENT #7,709,458 ISSUED 5/4/2010.

Compositions and Methods to Evaluate Hepatobiliary/Gastrointestinal Health, Enterohepatic Circulation, and Drug Interactions
US PATENT #9,597,417 ISSUED 3/21/2017.

BIBLIOGRAPHY (Google Scholar h-index 43, i10-index 106)

ORIGINAL SCIENTIFIC PAPERS

1. **Raufman, J-P.**, Miller, D.L. and Gumucio, J.J. Estrogen-induced zonal changes in rat liver sinusoids. *Gastroenterology* 79:1174-1177, 1980.
2. **Raufman, J-P.**, Jensen, R.T., Sutliff, V.E., Pisano, J.J. and Gardner, J.D. Actions of Gila monster venom on dispersed acini from guinea pig pancreas. *Am. J. Physiol.* 242(Gastrointest. Liver Physiol. 5):G470-G474, 1982.
3. **Raufman, J-P.**, Collins, S.M., Pandol, S.J., Korman, L.Y., Collen, M.J., Cornelius, M.J., Feld, M.K., McCarthy, D.M., Gardner, J.D. and Jensen, R.T. Reliability of symptoms in assessing control of gastric acid secretion in patients with Zollinger-Ellison syndrome. *Gastroenterology* 84:108-113, 1983.
4. Jensen, R.T., Collen, M.J., Pandol, S.J., **Raufman, J-P.**, Bissonnette, B.M., Duncan, W.C., Durgin, P.L., Gillan, J.C. and Gardner, J.D. Cimetidine-induced impotence and breast changes in patients with gastric hypersecretory states. *N. Engl. J. Med.* 308:883-887, 1983.
5. **Raufman, J-P.**, Kasbekar, D.K., Jensen, R.T. and Gardner, J.D. Potentiation of pepsinogen secretion from dispersed glands from rat stomach. *Am. J. Physiol.* 245(Gastrointest. Liver Physiol. 8):G525-G530, 1983.
6. Collen, M.J., Howard, J.M., McArthur, K.E., **Raufman, J-P.**, Cornelius, M.J., Ciarleglio, C.A., Gardner, J.D. and Jensen, R.T. Comparison of ranitidine and cimetidine in the treatment of gastric hypersecretion. *Ann. Intern. Med.* 100: 52-58, 1984.
7. **Raufman, J-P.**, Sutliff, V.E., Kasbekar, D.K., Jensen, R.T. and Gardner, J.D. Pepsinogen secretion from dispersed chief cells from guinea pig stomach. *Am. J. Physiol.* 247(Gastrointest. Liver Physiol. 10):G95-G104, 1984.
8. Parker, D.S., **Raufman, J-P.**, O'Donohue, T., Bledsoe, M., Yoshida, H. and Pisano, J.J. Amino acid sequences of helospectins, new members of the glucagon superfamily, found in Gila monster venom. *J. Biol. Chem.* 259:11751-11755, 1984.
9. Berger, S. and **Raufman, J-P.** Prostaglandin-induced pepsinogen secretion from dispersed gastric glands from guinea pig stomach. *Am. J. Physiol.* 249(Gastrointest. Liver Physiol. 12):G592-G598, 1985.
10. Zhou, Z., Eng, J., Pan, Y.-C. E., Chang, M., Hulmes, J.D., **Raufman, J-P.** and Yalow, R.S. Unique cholecystokinin peptides isolated from guinea pig intestine. *Peptides.* 6:337-342, 1985.
11. Sutliff, V.E., **Raufman, J-P.**, Jensen, R.T. and Gardner, J.D. Actions of VIP and secretin on dispersed chief cells from guinea pig stomach. *Am. J. Physiol.* 251(Gastrointest. Liver Physiol. 14):G96-G102, 1986.
12. Farman, J., Tavitian, A., Rosenthal, L.E., Schwartz, G.E., and **Raufman, J-P.** Focal esophageal candidiasis in acquired immunodeficiency syndrome (AIDS). *Gastrointest. Radiol.* 11:213-217, 1986.
13. Tavitian, A., **Raufman, J-P.**, Rosenthal, L.E. Oral candidiasis is a marker for esophageal candidiasis in AIDS. *Ann. Intern. Med.* 104:54-55, 1986.
14. Tavitian, A., **Raufman, J-P.**, Rosenthal, L.E., Weber, J., Webber, C.A. and Dincsoy, H.P. Ketoconazole-resistant candida esophagitis in patients with Acquired Immunodeficiency Syndrome. *Gastroenterology.* 90:443-445, 1986.
15. **Raufman, J-P.**, Eng, J., Du, B-H., Straus, E.W. and Yalow, R.S. Comparison of mammalian VIP bioactivities in dispersed acini from guinea pig pancreas. *Reg Peptides.*14:93-7, 1986.
16. **Raufman, J-P.**, Berger, S., Cosowsky, L., and Straus, E.W. Increases in cellular calcium concentration stimulate pepsinogen secretion from dispersed chief cells. *Biochem. Biophys. Res. Comm.* 137:281-285, 1986.
17. Eng, J., Gubler, U., **Raufman, J-P.**, Chang, M., Hulmes, J.D., Pan, Y-C. and Yalow, R.S. Cholecystokinin-associated COOH-terminal peptides are fully sulfated in pig brain. *Proc. Natl. Acad. Sci.* 83:2832-2835, 1986.

18. Eng, J., Du, B-H., **Raufman, J-P.** and Yalow, R.S. Purification and amino acid sequences of dog, goat and guinea pig VIP's. *Peptides* 7(Suppl. 1):17-20, 1986.
19. Cherner, J.A., Doppman, J.L., Norton, J.A., Miller, D.L., Krudy, A.G., **Raufman, J-P.**, Collen, M.J., Maton, P.N., Gardner, J.D. and Jensen, R.T. Selective venous sampling for gastrin to localize gastrinomas. *Ann. Int. Med.* 105:841-847, 1986.
20. **Raufman, J-P.** and Straus, E.W. Gastrointestinal endoscopy in AIDS: An evaluation of current practices. *Gastrointest. Endoscopy* 33:76-79, 1987.
21. **Raufman, J-P.** and Cosowsky, L. Actions of cholera toxin on dispersed chief cells from guinea pig stomach. *Biochim. Biophys. Acta* 928:199-207, 1987.
22. McArthur, K.E., **Raufman, J-P.**, Seaman, J.J., Ziemniak, J.A., Gardner, JD and Jensen, R.T. Cimetidine pharmacokinetics in patients with Zollinger-Ellison Syndrome. *Gastroenterology* 93: 69-76, 1987.
23. **Raufman, J-P.** and Cosowsky, L. Relation of prostaglandin-induced increases in cellular cAMP to stimulation of pepsinogen secretion from dispersed chief cells. *J. Cell. Physiol.* 132:137-142, 1987.
24. **Raufman, J-P.** and Cosowsky, L. Interaction between the calcium and adenylate cyclase messenger systems in dispersed chief cells from guinea pig stomach. Possible cellular mechanism for potentiation of pepsinogen secretion. *J. Biol. Chem.* 262:5957-5962, 1987.
25. **Raufman, J-P.** and Cosowsky, L. Differential actions of phosphodiesterase inhibitors on secretin- and VIP-induced increases in chief cell cAMP. *Biochim. Biophys. Acta* 970:318-323, 1988.
26. **Raufman, J-P.** and Cosowsky, L. Protein kinase C modulates effects of prostanoids on cAMP in guinea pig chief cells. *J. Cell. Physiol.* 140:91-97, 1989.
27. Straus, E.W., **Raufman, J-P.** Meal-stimulated gastrin release in normal men and women. *J. Assoc. Acad. Minor. Phys.* 1:9-10, 1989.
28. Prego, V., Glatt, A.E., Roy, V., Thelmo, W, Dincsoy, H., and **Raufman, J-P.** Comparative yield of blood cultures for fungi and mycobacteria, liver biopsy, and bone marrow biopsy in the diagnosis of fever of undetermined origin in HIV-infected patients. *Arch. Int. Med.* 150:333-336, 1990.
29. de Silva, R., Stoopack, P.M., and **Raufman, J-P.** Esophageal fistulae associated with mycobacterial infection in patients at risk for AIDS. *Radiology* 175:449-453, 1990.
30. Eng, J., Andrews, P.C., Kleinman, W.A., Singh, L., and **Raufman, J-P.** Purification and structure of exendin-3, a new pancreatic secretagogue isolated from heloderma horridum venom. *J. Biol. Chem.* 265:20259-20262, 1990.
31. **Raufman, J-P.**, Singh, L., and Zakai, M.D. Prostaglandins do not mediate the actions of cholera toxin on pancreatic acini or gastric chief cells from guinea pig. *J. Cell. Physiol.* 146:81-85, 1991.
32. **Raufman, J-P.**, Singh, L., and Eng, J. Exendin-3, a novel peptide from Gila Monster venom, interacts with vasoactive intestinal peptide receptors and a newly-described receptor on dispersed acini from guinea pig pancreas. Description of exendin-3(9-39) amide, a specific exendin receptor antagonist. *J. Biol. Chem.* 266:2897-2902, 1991.
33. **Raufman, J-P.** and Singh, L. Actions of peptide YY and neuropeptide Y on chief cells from guinea pig stomach. *Am. J. Physiol.* 260(Gastrointest. Liver Physiol. 23):G820-G826, 1991.
34. **Raufman, J-P.**, Malhotra, R., and Singh, L. PACAP-38, a novel peptide from ovine hypothalamus, is a potent modulator of amylase release from dispersed acini from rat pancreas. *Reg. Peptides* 36:121-129, 1991.
35. Eng, J., Du, B-H., Johnson G.F., Kanakamedala, S., Samuel, S., **Raufman, J-P.**, and Straus, E. Cat gastrinoma and the sequence of cat gastrins. *Reg. Peptides* 37:9-13, 1992.

36. Raffaniello, R.D. and **Raufman, J-P.** Cellular distribution of chief cell protein kinase C activity. Differential effects of diacylglycerol, phorbol esters, carbachol and cholecystokinin. *J. Cell. Biochem.* 48:107-113, 1992.
37. Eng, J., Andrews, P.C., Kleinman, W.A., Singh, L., and **Raufman, J-P.** Isolation and characterization of exendin-4, an exendin-3 analogue, from *Heloderma suspectum* venom. *J. Biol. Chem.* 267:7402-7405, 1992.
38. Singh, G., Singh, L., and **Raufman, J-P.** Y2 receptors for peptide-YY and neuropeptide-Y on dispersed chief cells from guinea pig stomach. *Am. J. Physiol.* 262(Gastrointestinal Liver Physiol 25):G756-G762, 1992.
39. **Raufman, J-P.** Actions of phorbol esters on levels of cAMP in cholera toxin-treated chief cells from guinea pig stomach. *Biochim. Biophys. Acta.* 1135:61-66, 1992.
40. Malhotra, R., Singh, L., Eng, J. and **Raufman, J-P.** Exendin-4, a new peptide from *Heloderma horridum* venom, potentiates cholecystokinin-induced amylase release from rat pancreatic acini. *Reg. Peptides* 38:149-156, 1992.
41. **Raufman, J-P.**, Singh, L., Singh, G., and Eng, J. Truncated glucagon-like peptide-1 [GLP-1(7-36)NH₂] interacts with exendin receptors on dispersed acini from guinea pig pancreas. Identification of a mammalian analogue of the reptilian peptide exendin-4. *J. Biol. Chem.* 267: 21432-21437, 1992.
42. Raffaniello, R.D. and **Raufman, J-P.** Pepsinogen secretion from streptolysin O-permeabilized chief cells from guinea pig stomach. *Am. J. Physiol.* 263(Gastrointestinal Liver Physiol. 26):G452-G459, 1992.
43. **Raufman, J-P.**, Notar-Francesco, V., Raffaniello, R.D., and Straus, E.W. Histamine-2 receptor antagonists do not alter serum ethanol levels in fed, non-alcoholic men. *Ann. Intern. Med.* 118:488-494, 1993.
44. Raffaniello, R.D., and **Raufman, J-P.** Guanine nucleotides activate multiple signalling pathways in permeabilized gastric chief cells: Evidence for GTPγS-induced calcium-independent pepsinogen secretion. *J. Biol. Chem.* 268:8491-8496, 1993.
45. Rai, A., Singh, G., Raffaniello, R., Eng, J., and **Raufman, J-P.** Actions of Helodermatidae venom peptides and glucagon-like peptides on gastric chief cells. *Am. J. Physiol.* 265(Gastrointest. Liver Physiol. 28):G118-G125, 1993.
46. Raffaniello, R.D., and **Raufman, J-P.** Carbachol activates protein kinase C in dispersed gastric chief cells. *Biochem. J.* 300:21-24, 1994.
47. Singh, G., Eng, J., and **Raufman, J-P.** Use of ¹²⁵I-[Y39]exendin-4 to characterize exendin/tGLP-1 receptors on pancreatic acini and gastric chief cells from guinea pig. *Reg. Peptides.* 53:47-59, 1994.
48. Schepp, W., Schmidtler, J., Riedel T., Dehne, K., Schusdziarra, V., Holst, J.J., Eng, J., **Raufman, J-P.**, Classen, M. Exendin-4 and exendin(9-39)NH₂: agonist and antagonist, respectively, at the rat parietal cell receptor for glucagon-like peptide-1-(7-36)NH₂. *Eur. J. Pharmacol.* 269:183-191, 1994.
49. Raffaniello, R.D. and **Raufman, J-P.** Protein kinase C expression and translocation in dispersed chief cells from guinea pig stomach. *Biochim. Biophys. Acta* 1224:551-558, 1994.
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149. Hamilton, J., Xie, G., **Raufman, J-P.**, Hogan, S., Griffin, T.L., Packard, C.A., Chatfield, D.A., Hagey, L., Steinbach, J.H., Hofmann, A.F. Concentration and spectrum of bile acids in normal human cecal contents. Poster presentation at DDW 2007, Washington, D.C. Gastroenterology 132:A193, 2007.
 150. McLean, L.P., Sun, R., Stiltz, J., Zhao, A., **Raufman, J-P.**, Shea-Donohue, T. Muscarinic type 3 receptors (M₃R) contribute to ileal mucosal barrier function. Poster presentation at DDW 2007, Washington, D.C. Gastroenterology 132:A405, 2007.
 151. **Raufman, J-P.**, Samimi, R., Shah, N., Khurana, S., Xie, G., Drachenberg, C., Cheng, K. Genetic ablation of M₃ muscarinic receptors attenuates both colon epithelial cell proliferation and neoplasia. Oral presentation at DDW 2008, San Diego, CA. Gastroenterology 134:A87, 2008
 152. Shant, J., Wang, J-Y., Cheng, K., **Raufman, J-P.** Deoxycholytaurine rescues human colon cancer cells from TNF- α -induced apoptosis by activating NF- κ B signaling. Poster presentation at DDW 2008, San Diego, CA. Gastroenterology 134:A385, 2008
 153. Shant, J., Cheng, K., Xie, G., **Raufman, J-P.** M₃ muscarinic receptor deficiency reduces small intestinal neoplasia in the *Apc^{Min/+}* mouse model of colon cancer. Oral presentation at DDW 2008, San Diego, CA. Gastroenterology 134:A116, 2008.
 154. Cheng, K., Samimi, R., Xie, G., Drachenberg, C., Wade, M.R., Nomikos, G., **Raufman, J-P.** Measurement of non-neuronal acetylcholine release by a colon cancer cell line. Poster presentation at DDW 2008, San Diego, CA. Gastroenterology 134:A576, 2008
 155. McLean, L.P., Zhao, A., Sun, R., Stiltz, J.A., Riera, D.C., Urban, J.R., **Raufman, J-P.**, Shea-Donohue, T. Role of muscarinic₃ receptors in the immune, epithelial, and smooth muscle responses to enteric nematode infection. Poster of Distinction, DDW 2008, San Diego, CA. Gastroenterology 134:A393, 2008.
 156. Shah, N., Samimi, R., Cheng, K., Drachenberg, C., **Raufman, J-P.**, Khurana, S. Azoxymethane induces chronic liver injury in mice: a new model of experimental cirrhosis and ductular proliferation. Poster presentation at DDW 2008, San Diego, CA. Gastroenterology 134:A820, 2008.
 157. Shah, N., Belo, A., Cheng, K., Shant, J., Drachenberg, C., **Raufman, J-P.**, Khurana, S. Muscarinic receptor blockade in mice exacerbates azoxymethane (AOM)-induced chronic liver injury. Poster presentation at AASLD 2008 national meeting, San Francisco, CA. Hepatology 48:457A, 2008.
 158. Shant, J., Cheng, K., Xie, G., Shah, N., Shiu, B., Drachenberg, C., **Raufman, J-P.** In the *Apc^{min/+}* murine model of intestinal neoplasia, both tumor formation and perturbation of cell differentiation require expression of M₃ muscarinic receptors. Oral presentation at DDW 2009, Chicago, IL. Gastroenterology 136(Suppl 1):7615, 2009.
 159. Belo, A., Cheng, K., Shant, J., **Raufman, J-P.** Acetylcholine-induced colon cancer cell migration is mediated by epidermal growth factor receptor (EGFR)-dependent activation of both ERK and PI3K signaling. Poster presentation at DDW 2009, Chicago, IL. Gastroenterology 136(Suppl 1):S2040, 2009.
 160. Shant, J., Cheng, K., **Raufman, J-P.** In human colon cancer cells, bile acid-induced rescue from apoptosis activated via either the extrinsic or intrinsic pathway is both Akt- and NF- κ B-dependent. Poster presentation at DDW 2009, Chicago, IL. Gastroenterology 136(Suppl 1):W1587, 2009.
 161. Shah, N., Shiu, B., Samimi, R., Drachenberg, C., Shant, J., Cheng, K., **Raufman, J-P.**, Khurana, S. Characterization of ductular reaction in azoxymethane (AOM)-treated mice: role of M₃ muscarinic receptors. Oral presentation at DDW 2009, Chicago, IL. Gastroenterology 136(Suppl 1):719, 2009.
 162. Shah, N., Shiu, B., Drachenberg, C., Shant, J., Belo, A., Cheng, K., **Raufman, J-P.**, Khurana, S. Azoxymethane (AOM)-induced ductular reaction is potentiated by muscarinic receptor inhibition. Poster of Distinction, DDW 2009, Chicago, IL. Gastroenterology 136(Suppl 1):S1587, 2009.

163. Shah, N., Shiu, B., Belo, A., Samimi, R., Cheng, K., Drachenberg, C., Shant, J., **Raufman, J-P.**, Khurana S. Inhibition of M3 muscarinic receptor (M₃R) activation augments azoxymethane (AOM)-induced expression of epithelial cell adhesion molecule in bile ductules and oval cells. Poster presentation at AASLD 2009 national meeting, Boston, MA. *Hepatology* 50:847A, 2009.
164. Mindikoglu, A.L., Magder, L.S., Seliger, S.L., **Raufman, J-P.**, Howell, C.D. Outcomes and predictors of simultaneous liver-kidney transplantation among patients with kidney dysfunction who are not on dialysis on the liver transplant waiting list. Oral presentation at DDW 2010, New Orleans, LA. *Gastroenterology* 138(Suppl. 1):S774, 2010.
165. Mindikoglu, A.L., Magder, L.S., Seliger, S.L., **Raufman, J-P.**, Howell, C.D. Outcomes of patients with end-stage liver disease on dialysis for more than 6 weeks on the liver transplant waiting list. Oral presentation at DDW 2010, New Orleans, LA. *Gastroenterology* 138(Suppl. 1):S784, 2010.
166. Khurana, S., Shah, N., Twadell, W., Timmons, J.A., Gao, X., Cheng, K., **Raufman, J-P.** Divergent effects of M1 (M1r) and M3 (M3r) muscarinic receptor deletion in azoxymethane (AOM)-induced liver injury. Poster presented at DDW 2010, New Orleans, LA. *Gastroenterology* 138(Suppl. 1):S808, 2010.
167. Khurana, S., Raina, H., **Raufman, J-P.**, Pallone, T. M3 muscarinic acetylcholine receptors (Chrm3) induce endothelium-derived hyperpolarization factor (EDHF)-mediated vasodilation in rat splanchnic circulation. Poster presented at DDW 2010, New Orleans, LA. *Gastroenterology* 138(Suppl. 1):S737-738, 2010.
168. Gao, X., Cheng, K., Shiu, B., Heath, J., Shah, N., Xie, G., Khurana, S., Shant, J., Drachenberg, C., **Raufman, J-P.** Pharmacological inhibition of muscarinic receptor attenuates intestinal neoplasia in *Apc^{min/+}* mice. Poster presented at DDW 2010, New Orleans, LA. *Gastroenterology* 138(Suppl. 1):S729, 2010.
169. Cheng, K., Gao, X., Shah, N., Timmons, J., Xie, G., Khurana, S., **Raufman, J-P.** Concomitant knockout of M1 muscarinic receptors (Chrm1) in azoxymethane-treated *Chrm3^{-/-}* mice nullifies reductions in colon tumor number and size. Oral presentation at DDW 2010, New Orleans, LA. *Gastroenterology* 138(Suppl. 1):S92, 2010.
170. Xu, S., Cheng, K., Khurana, S., Johnson, D., Polli, J., Shi, D., Roys, S., Gullapalli, R., **Raufman, J-P.** *In vivo* ¹⁹F MRI to detect biliary excretion of ¹⁹F-labeled drugs in mice. Multimedia electronic poster presentation at the May 2011 national meeting of the International Society for Magnetic Resonance in Medicine, Montreal, Canada.
171. McLean, L., Notari, L., Sun, R., Stiltz, J., Sturgeon, C., Grinchuk, V., Yan, S., Zhao, A., **Raufman, J-P.**, Shea-Donohue, T. Type 1 and type 3 muscarinic receptors modulate intestinal barrier function. Poster of Distinction, Digestive Disease Week, Chicago, IL, May 2011.
172. Khurana, S., Cheng, K., Gao, X., Twadell, W., **Raufman, J-P.** Pharmacological inhibition and activation of M3 muscarinic receptor (M₃R) modulates azoxymethane (AOM)-induced liver injury. Oral presentation at Digestive Disease Week, Chicago, IL, May 2011.
173. **Lucas, E.**, Raufman, J-P., **Raina, H.**, **Pallone, T.**, **Khurana, S.** **A secondary bile acid, deoxycholyglycine, reduces myogenic tone in resistance mesenteric arteries from normal rats.** Poster of Distinction, Digestive Disease Week, Chicago, IL, May 2011.
174. Chahdi, A., **Raufman, J-P.** β₁Pix, a Rac/Cdc42 guanine nucleotide exchange factor (GEF), mediates cross-talk between Wnt/β-catenin and G-protein coupled receptor (GPCR) signaling in colon cancer. Poster, Digestive Disease Week, Chicago, IL, May 2011
175. **Peng, Z.**, Raufman, J-P., **Xie, G.** In a xenograft mouse model, bethanechol, a muscarinic receptor agonist, attenuates the growth of human colon cancer cells. Poster of Distinction, Digestive Disease Week, Chicago, IL, May 2011.

176. Xie, G., Peng, Z., **Raufman, J-P**. Cross-talk between aryl hydrocarbon and epidermal growth factor receptors in human colon cancer cells. Poster, Digestive Disease Week, Chicago, IL, May 2011.
177. Xie, G., Peng, Z., **Raufman, J-P**. Neutralizing anti-matrix metalloproteinase 7 antibody inhibits growth of human colon cancer xenografts. Poster, Digestive Disease Week, Chicago, IL, May 2011.
178. Lucas, E, Raina, H, Saxena, N, **Raufman, J-P**, Pallone, T, Khurana, S. Deoxycholyglycine (DCG), the glycine conjugate of deoxycholic acid, a secondary bile acid (BA), reduces myogenic tone (MT) in resistance mesenteric arteries from normal rats via L-type voltage-gated calcium channels (CaV1.x). Poster, Liver Meeting, San Francisco, CA, November 2011. *Hepatology* 54:947A, 2011.
179. Chahdi, A, **Raufman, J-P**. β Pix modulates Wnt/ β -catenin signaling and mediates muscarinic receptor agonist-induced colon cancer cell invasion. Oral Presentation, Digestive Disease Week, San Diego, CA, May 2012.
180. Peng, Z, **Raufman, J-P**, Xie, G. Src-mediated cross-talk between farnesoid X and epidermal growth factor receptors inhibits human intestinal cell proliferation and tumorigenesis. Oral Presentation, Digestive Disease Week, San Diego, CA, May 2012.
181. Rachakonda, V, Urrunaga, N, Ahmad, D, Twadell, W, Saxena, N, Cheng, K, **Raufman, J-P**, Khurana, S. Genetic ablation of M1 subtype muscarinic receptors inhibits azoxymethane-induced chronic liver injury in mice. Poster of Distinction, Digestive Disease Week, San Diego, CA, May 2012.
182. Vivian, D, Cheng, K, Khurana, S, **Raufman, J-P**, Polli, J. Development and testing of a novel fluorinated bile acid for detection of bile acid malabsorption by magnetic resonance imaging (MRI). Oral Presentation, Digestive Disease Week, San Diego, CA, May 2012.
183. McLean, L, Grinchuk, V, Zhao, A, Sun, R, **Raufman, J-P**, Shea-Donohue, T. Type 3 muscarinic receptors modulate macrophage phenotype in the presence of Th1 cytokines. Oral Presentation, Digestive Disease Week, San Diego, CA, May 2012.
184. Said, A, Cheng, K, Chahdi, A, **Raufman, J-P**. Acetylcholine-induced activation of p38 mitogen activated protein kinase (MAPK) signaling plays a role in human colon cancer cell invasion. Poster Presentation, Digestive Disease Week, San Diego, CA, May 2012.
185. Urrunaga, N, Rachakonda, V, Ahmad, D, Twaddell, W, Saxena, N, Cheng, K, **Raufman, J-P**, Khurana, S. In mice, genetic ablation of M1 subtype muscarinic receptors attenuates acetaminophen (APAP) – induced liver injury. Poster Presentation, Liver Meeting, Boston, MA, November 2012. *Hepatology* 56:1121A-1122A, 2012.
186. Rachakonda V, Urrunaga NH, Ahmad, D, Twaddell, WS, Saxena, N, Cheng, K, **Raufman, J-P**, Khurana, S. Genetic ablation of M1 subtype muscarinic receptor (M1R) attenuates azoxymethane (AOM)-induced liver injury by altering expression of fibrogenic mediators and inflammatory cytokines. Poster Presentation, Liver Meeting, Boston, MA, November 2012. *Hepatology* 56:766A, 2012.
187. McLean L, Notari L, Sun R, Bohl J, Yan S, Grinchuk V, Zhao A, **Raufman, J-P**, Shea-Donohue T. Type 3 muscarinic receptor deficiency is associated with impaired paracellular permeability and activation of myosin light chain (MLC) 2. Oral Presentation, Digestive Disease Week, Orlando, FL, May 2013.
188. Jadeja R, **Raufman J-P**, Pallone T, Khurana S. Mechanisms underlying deoxycholyglycine (DCG)-induced reduction of vascular tone in rat resistance mesenteric arteries. Poster of Distinction, Digestive Disease Week, Orlando, FL, May 2013.
189. Chahdi A, **Raufman J-P**. A Rac/Cdc42 nucleotide exchange factor, β ₁Pix, interacts directly with β -catenin, thereby modulating its activity. Oral Presentation, Digestive Disease Week, Orlando, FL, May 2013.
190. Cheng K, Xie G, Khurana S, Heath J, Drachenberg C, **Raufman J-P**. Use of divergent effects of M3 and M1 muscarinic receptor (MR) ablation on murine colon neoplasia to identify M3R-regulated changes in gene and protein expression. Poster Presentation, Digestive Disease Week, Orlando, FL, May 2013.

191. Peng, Z, Heath J, Drachenberg C, **Raufman JP**, Xie G. Cholinergic muscarinic receptor activation augments murine intestinal epithelial cell proliferation and tumorigenesis. Poster of Distinction, Digestive Disease Week, Orlando, FL, May 2013.
192. Urrunaga, NH, Jadeja, R, Rachakonda, V, Ahmad, D, McLean, L, Twaddell, W, Saxena, NK, Cheng, K, **Raufman, J-P**, Khurana, S. Mechanisms underlying attenuated acetaminophen (APAP)-induced liver injury in M1R-deficient (M1R^{-/-}) mice. Poster Presentation, Liver Meeting, Washington, D.C., November 2013. Hepatology 58:947A-948A, 2013.
193. Rachakonda, V, Urrunaga, NH, Jadeja, R, Ahmad, D, McLean, L, Cheng, K, Twaddell, W, Saxena, NK, **Raufman, J-P**, Khurana, S. Genetic ablation of M1 muscarinic receptors (M1R) attenuates azoxymethane (AOM)-induced murine liver injury by TRAIL-R2-mediated hepatic stellate cell (HSC) apoptosis. Poster Presentation, Liver Meeting, Washington, D.C., November 2013. Hepatology 58:577A, 2013.
194. Vivian, D, Cheng, K, Khurana, S, Xu, S, **Raufman, J-P**, Polli, J. Development and *in vitro* testing of a novel assessment of bile acid transport using trifluoromethylated cholysarcosine for fluorine magnetic resonance imaging (MRI). Poster Presentation at annual meeting of American Association of Pharmaceutical Scientists, San Antonio, TX, November 2013.
195. Hu S, Chang EB, Wang JY, **Raufman J-P**. Butyrate modulates microRNA 92a and 222 transcription, p57 expression and the cell cycle in human colon cancer cells. Poster Presentation, Digestive Disease Week, Chicago, IL, May 2014.
196. Cheng, K, Drachenberg, C, **Raufman, J-P**. **M3 muscarinic receptor expression plays a key role in colon neoplasia**. Poster Presentation, Digestive Disease Week, Chicago, IL, May 2014.
197. **McLean, L, Smith, A, Cheung, L, Sun, R, Grinchuk, V, Zhao, A**, Raufman, J-P, **Shea-Donohue, T**. **Type 3 muscarinic receptor activity facilitates clearance of Citrobacter rodentium**. Poster Presentation, Digestive Disease Week, Chicago, IL, May 2014.
198. **Vivian, D, Cheng, K, Khurana, S, Xu, S, Kriel, E, Dawson, P, Polli, J**, Raufman, J-P. **In vivo performance of a novel fluorinated magnetic resonance imaging agent for functional analysis of bile acid transport**. Poster Presentation, Digestive Disease Week, Chicago, IL, May 2014.
199. Despande, G, Weiss, S, Polli, J, Shaya, FT, Zhan, M, **Raufman, J-P**. Association between cardiovascular drugs and colon cancer. Poster Presentation, Annual Meeting of the International Society for Pharmacoeconomics and Outcomes Research, Montreal, Canada, June 2014.
200. **McLean, L, Smith, A, Cheung, L, Desai, N, Grinchuk, V, Zhao, A, Sun, R**, Raufman, J-P, **Shea-Donohue, T**. **Type 3 muscarinic receptors (M3R) contribute to expulsion of Nippostrongylus brasiliensis through induction of Th2 cytokines**. **Poster Presentation, Annual Meeting of the American College of Gastroenterology, Philadelphia, PA, October 2014**.
201. Hu, S, Liu, L, Chang, EB, Wang, J-Y, **Raufman, J-P**. Interplay between butyrate, a microbe-derived short chain fatty acid, and c-Myc regulates expression of pro-proliferative miR-92a. **Poster Presentation, Digestive Disease Week, Washington, D.C., May 2015**.
202. Said, AH, Abutaleb, A, Watkins, T, Hu, S, Cheng, K, Xie, G, **Raufman, J-P**. Potentiating interactions between type-3 muscarinic receptor (M3R) signaling pathways augment matrix metalloproteinase-1 (MMP1) expression in human colon cancer cells. Poster Presentation, Digestive Disease Week, Washington, D.C., May 2015.
203. **Raufman, J-P**, Dawson, P, Rao, A, Drachenberg, CB, Shang, AC, Hu, S, Zhan, M, Polli, J, Cheng, K. *Slc10a2*-null mice uncover colon cancer-promoting actions of endogenous fecal bile acids. Poster of Distinction Presentation, Digestive Disease Week, Washington, D.C., May 2015.
204. Said, AH, Abutaleb, A, Hu, S, Watkins, T, Cheng, K, Xie, G, **Raufman, J-P**. Interacting signal transduction pathways downstream of type-3 muscarinic receptor activation potentiate matrix metalloproteinase-1 gene transcription and augment colon cancer cell invasion. Poster Presentation, Digestive Disease Week, San Diego, CA, May 2016.

205. Shang, AC, Cheng, K, Drachenberg, CB, Chahdi, A, **Raufman, J-P**. The Cdc42/Rac nucleotide exchange factor β Pix plays a key role in intestinal development and neoplasia. Oral Presentation, Digestive Disease Week, San Diego, CA, May 2016.
206. Person, EB, Castell, DO, von Rosenvinge, E, **Raufman, J-P**, Xie, G. Optimizing high-resolution impedance manometry: A prospective study to validate normal values for novel viscous and super-viscous substrates. Poster Presentation, Digestive Disease Week, San Diego, CA, May 2016.
207. Felton, J, Metry, M, Cheng, K, Shang, AC, Xu, S, Vivian, D, Polli, J, **Raufman, J-P**. Fluorine-labeled bile acid live-animal magnetic resonance imaging (MRI) detects bile acid malabsorption in Fgf15 knockout mice. Poster Presentation, Digestive Disease Week, Chicago, IL, May 2017.
208. Said, A, Hu, S, Abutaleb, A, Cheng, K, Xie, G, Saxena, JK, **Raufman, J-P**. p38- α mitogen-activated protein kinase (MAPK) mediates M3 muscarinic receptor (M3R) agonist-induced potentiation of matrix metalloproteinase-1 (MMP1) expression and invasion of human colon cancer cells. Poster Presentation, Digestive Disease Week, Chicago, IL, May 2017.
209. Hu, S, Said, A, Cheng, K, **Raufman, J-P**. Up-regulation of miR-222 expression downstream of type-3 muscarinic receptor (M3R) activation promotes colon cancer cell proliferation. Oral Presentation, Digestive Disease Week, Chicago, IL, May 2017.
210. Mindikoglu AL, Opekun AR, Coarfa C, Putluri N, Devaraj S, Sheikh-Hamad D, Vierling JM, Goss J, Rana A, Sood G, Jalal P, Inker LA, Mohny RP, Tighiouart H, Christenson RH, Dowling TC, Weir MR, Seliger SL, Hutson WR, Howell C, **Raufman JP**, Magder LS. Robust Metabolomic Signature is Associated with Altered Renal Hemodynamics in Patients with Cirrhosis. Oral Presentation, Digestive Disease Week, Chicago, IL, May 2017.
211. Mindikoglu AL, Opekun AR, Mitch WE, Magder LS, Christenson RH, Dowling TC, Weir MR, Seliger SL, Howell C, **Raufman, JP**, Rana A, Goss J, Sussman NL, Vierling JM. Serum Creatinine in Female Patients with Cirrhosis Unfairly Bias Liver Transplant Wait List Ranking: Implications for Elimination of Gender Disparities in Access to Orthotopic Liver Transplantation. Poster of Distinction, Digestive Disease Week, Chicago, IL, May 2017.
212. Metry M, Felton J, Cheng K, Shang AC, Xu S, Vivian D, **Raufman J-P**, Polli P. Fluorine-labeled bile acid live-animal magnetic resonance imaging (MRI) detects bile acid malabsorption in Fgf15 knockout mice. American Association of Pharmaceutical Scientists, Student Chapter Symposium; Collegeville, PA, June 2017.
213. Metry M, Felton J, Cheng K, Shang AC, Xu S, Vivian D, **Raufman J-P**, Polli P. Fluorine-labeled bile acid live-animal magnetic resonance imaging (MRI) detects bile acid malabsorption in Fgf15 knockout mice. American Association of Pharmaceutical Scientists Annual Meeting, San Diego, CA, November 2017.
214. **Raufman J-P**, Shang, AC, Drachenberg, CB, Zhan, M, Cheng, K. Conditional knockout of CDC42/RAC nucleotide exchange factor, β Pix, attenuates intestinal epithelial cell proliferation and colon neoplasia in mice. Oral Presentation, Digestive Disease Week, Washington, D.C., June 2018.
215. Felton J, Metry M, Cheng K, Shang AC, Drachenberg CB, Xu S, Zhan M, Polli J, **Raufman J-P**. Diminished gallbladder filling, increased fecal bile acids, and promotion of colon epithelial cell proliferation and neoplasia in fibroblast growth factor (FGF) 15-deficient mice. Poster Presentation, Digestive Diseases Week, Washington, D.C., June 2018.
216. Felton, J, Cheng, K, Hu, S, Shang, AC, Drachenberg, CB, **Raufman, J-P**. Two sides to colon cancer: Mice mimic human regional disparity in colon cancer growth and progression. Poster Presentation, Digestive Diseases Week, Washington, D.C., June 2018.

GRANT SUPPORT

Current

Dates: July 2005 – June 2020
Title (PI): Research Training in Gastroenterology (PD; J-P. Raufman)
Source/#: NIH/NIDDK T32 DK067872
Role: PD

Dates: July 2005 – June 2017
Title (PI): Gastroenterology Fellowship and Consultations at NIH (PD; J-P. Raufman)
Source/#: NIH/NIDDK Contract HHSN276201500382P
Role: PD

Dates: July 1, 2011 – June 30, 2021
Title (PI): Training Grant in Cancer Biology (PI; T. Antalis)
Source/#: NIH/NCI T32 CA154274
Role: Training faculty

Dates: April 1, 2014 – March 31, 2018
Title (PI): Regulation of intestinal epithelial restitution (PI; J-Y. Wang)
Source: VA Merit Award
Role: Co-investigator (10% effort)

Dates: January 1, 2015 – December 31, 2018
Title (PI): M3R, MMP1 and Colon Cancer Dissemination (PI; J-P. Raufman)
Source: VA Merit Award; 1BX002129
Role: PI (30% effort)

Dates: July 1, 2015 – June 30, 2017
Title (PI): Role of BSEP in Drug-Induced Cholestatic Liver Toxicity (PI; B. Garzel)
Source: NIH, NIDDK F31 DK105750-01A1
Role: Mentor

Dates: October 1, 2015 – September 30, 2020
Title (PI): Surgical Studies of Gut Permeability (PI; J-Y. Wang)
Source: NIH, NIDDK 2R01DK068491-10A1
Role: Co-Investigator (0.3 calendar months)

Dates: **July 2015 – June 2018**
Title (PI): **Diabetes and its Metabolic Complications (PI; S.I. Taylor)**
Source: **NIH, NIDDK T32 DK098107**
Role: **Internal Advisory Committee**

Past ten years

Dates: August 2012 – July 2016
Title (PI): Creating a toolkit to measure *in vivo* bile acid transport (PI's; J-P. Raufman/J. Polli)
Source/#: NIH/NIDDK 1R21 DK093406
Role: PI (10% effort)

Dates: September 2008 – August 2013
Title (PI): Role of M3 muscarinic receptors in bile acid-induced colon cancer (PI; J-P. Raufman)
Source/#: NIH/NCI 1R01 CA120407
Role: PI (30% effort)

Dates: February 2012
Title (PI): Development of imaging as a tool for *in vivo* drug-interaction assessments (PI; J-P. Raufman)
Source: University of Maryland **Center of Excellence in Regulatory Science and Innovation (CERSI) small grant award**
Role: PI

Dates: July 2005 – June 2011
Title (PI): Bile acid-induced colon cancer cell proliferation (PI; J-P. Raufman)
Source/#: NIH/NCI 1 RO1 CA107345
Role: PI (20% effort)

Dates: April 1999 – March 2009
Title (PI): Interaction of bile acids with gastrointestinal cholinergic receptors (PI; J-P. Raufman)
Source: VA Merit Review
Role: PI (30% effort)

Pending

Dates: 1/2/18 - 1/1/20
Title (PI): Elucidating the Role Family Health History Plays on Colorectal Cancer Risk Perception and Screening among Blacks (PI, Mary Garza)
Source: NIH, R21
Role: Co-Investigator (0.36 calendar months)