# **CURRICULUM VITAE**

NAME	UMA SUNDARAM
OFFICE ADDRESS	West Virginia University Health Science Center West Virginia Clinical and Translational Science Institute www.wvctsi.org HSC 5570, One Medical Center Drive Morgantown, WV 26506
SPOUSE	USHA SUNDARAM, M.D.
TELEPHONE	(304)-293-7015; (304)-293-6125
E-MAIL	usundaram@hsc.wvu.edu
CITIZENSHIP	United States
SEX	Male
EDUCATION:	
1983 M.D. 7	The Medical College of Ohio (University of Toledo Medical Center)

1980B.E.S.The Johns Hopkins University<br/>(Bioengineering Major)

# **POST DOCTORAL TRAINING:**

1986-1989	Fellow, Division of Digestive Diseases, Yale University, School of Medicine
1983-1986	Resident, Internal Medicine, University of Michigan Medical Center

### LICENSURE:

Maryland, #D48065 West Virginia, #21566

### **BOARD CERTIFICATION:**

Diplomat of the American Board of Gastroenterology, 1989 Diplomat of the American Board of Internal Medicine, 1988 Diplomat of the National Board of Medical Examiners, 1985

### FACULTY APPOINTMENTS:

2008 – Present	Founding Director, West Virginia Clinical and Translational
	Science Institute (WVCTSI)
	Assistant Vice President
	West Virginia University Health Science Center
	Assistant Dean, WVU School of Medicine
2004 -	Professor of Medicine, Microbiology, Immunology & Cell Biology
	Chief, Section of Digestive Diseases ( 2011)
	Director, Inflammatory Bowel Disease Center
	Director, Ruby Memorial Hospital Endoscopy Center ( 2009)
	Director, Digestive Diseases Fellowship Program
	West Virginia University School of Medicine
2001-2004	Professor of Medicine, Pharmacology and Physiology
	Chief, Digestive Diseases Unit
	Director, Strong Memorial Hospital Endoscopy Unit
	University of Rochester Medical Center
1995-2001	Associate Professor of Internal Medicine
	and Physiology & Cell Biology
	Associate Director, Division of Digestive Diseases
	Ohio State University College of Medicine & Public Health
1989-1995	Assistant Professor of Internal Medicine
	Yale University School of Medicine

# **HOSPITAL APPOINTMENTS:**

2004 – Present	Attending Physician, Ruby Memorial Hospital
2001 - 2004	Attending Physician, Strong Memorial Hospital
1995-2001	Attending Physician, Ohio State University Hospitals
1989-1995	Attending Physician, Yale-New Haven Hospital
1989-1995	Attending Physician, VA Medical Center, West Haven, CT

#### **RESEARCH ACTIVITIES --CURRENT FUNDING:**

Title: West Virginia Clinical Translational Research Award PI: Uma Sundaram, MD Type: 1 U54 RR033567-01 Effort: 70% Period: 08/15/2012 – 06/30/2017 Agency: NIH/NIGMS Total funding: \$19,600,000.00 Title: Regulation of intestinal Na Absorption PI: Uma Sundaram, MD Type: RO1, DK 67420 Effort: 20% Period: 07/01/09 – 06/30/13 Agency: NIH/NIDDK Total funding: \$1,110,707.00

#### **RESEARCH ACTIVITIES -- Funding Completed in Last 3 Years:**

Title: Regulation of Na-Nutrient co-Transport PI: Uma Sundaram, MD Type: RO1, DK 58034 Effort: 25% Period: 07/01/06 – 06/30/12 Agency: NIH/NIDDK Total funding: \$1,642,500.00

Title: ARRA for Regulation of Na-Nutrient co-Transport PI: Uma Sundaram, MD Agency: NIH/NIDDK Type: RO1, DK 58034 – 10S1 Period: 02/05/10 – 09/30/11 Total funding: \$100, 000.00

Title: Role of IK Channels in Rat Distal Colon Co-PI: Uma Sundaram, MD (PI V. Rajendran) Type: RO1, DK 18777 Period: 11/01/06 – 2/28/09 Agency: NIH/NIDDK Total funding: \$1,499,350.00

#### **RESEARCH ACTIVITIES -- Past Funding as PI**

2000 - 2003Schering Oncology, Combination Therapy for Relapsed Hepatitis C2001Samuel J. Roessler Memorial Scholarship (Sponsor), Regulation of Na-bile acid co-Transport in Chronic Ileitis.2000 - 2003Schering Oncology, Ribavirin & Intron A for Non Responder Hepatitis C2000 - 2002National Institutes of Health, Research Supplement for Underrepresented Minority2000 - 2003Schering Oncology, Therapy for Naïve Hepatitis C Patients2000 - 2003Schering Oncology, Therapy for Naïve Hepatitis C Patients1998 - 2001Searle Research Grant. Cox II Inhibitor: Effect on Gastric Mucosa1997 - 2000NIH RO1 DK450621993 - 1998NIH First Award R29DK45062	2001 - 2004	NIH, Individual NRSA Sponsor for Steven Coon, PhD
2001Samuel J. Roessler Memorial Scholarship (Sponsor), Regulation of Na-bile acid co-Transport in Chronic Ileitis.2000 – 2003Schering Oncology, Ribavirin & Intron A for Non Responder Hepatitis C2000 – 2002National Institutes of Health, Research Supplement for Underrepresented Minority2000 – 2003Schering Oncology, Therapy for Naïve Hepatitis C Patients Searle Research Grant. Cox II Inhibitor: Effect on Gastric Mucosa NCI, Barrett's Multicenter Trial 1998 – 20001998 – 2000NIH RO1 DK45062	2000 - 2003	Schering Oncology, Combination Therapy for Relapsed Hepatitis
Na-bile acid co-Transport in Chronic Ileitis.2000 - 2003Schering Oncology, Ribavirin & Intron A for Non Responder Hepatitis C2000 - 2002National Institutes of Health, Research Supplement for Underrepresented Minority2000 - 2003Schering Oncology, Therapy for Naïve Hepatitis C Patients2000 - 2003Schering Oncology, Therapy for Naïve Hepatitis C Patients1998 - 2001Searle Research Grant. Cox II Inhibitor: Effect on Gastric Mucosa1997 - 2000NIH RO1 DK45062		С
2000 - 2003Schering Oncology, Ribavirin & Intron A for Non Responder Hepatitis C2000 - 2002National Institutes of Health, Research Supplement for Underrepresented Minority2000 - 2003Schering Oncology, Therapy for Naïve Hepatitis C Patients1998 - 2001Searle Research Grant. Cox II Inhibitor: Effect on Gastric Mucosa1997 - 2000NCI, Barrett's Multicenter Trial1998 - 2000NIH RO1 DK45062	2001	Samuel J. Roessler Memorial Scholarship (Sponsor), Regulation of
Hepatitis C2000 - 2002National Institutes of Health, Research Supplement for Underrepresented Minority2000 - 2003Schering Oncology, Therapy for Naïve Hepatitis C Patients1998 - 2001Searle Research Grant. Cox II Inhibitor: Effect on Gastric Mucosa1997 - 2000NCI, Barrett's Multicenter Trial1998 - 2000NIH RO1 DK45062		Na-bile acid co-Transport in Chronic Ileitis.
2000 - 2002National Institutes of Health, Research Supplement for Underrepresented Minority2000 - 2003Schering Oncology, Therapy for Naïve Hepatitis C Patients1998 - 2001Searle Research Grant. Cox II Inhibitor: Effect on Gastric Mucosa1997 - 2000NCI, Barrett's Multicenter Trial1998 - 2000NIH RO1 DK45062	2000 - 2003	Schering Oncology, Ribavirin & Intron A for Non Responder
Underrepresented Minority2000 - 2003Schering Oncology, Therapy for Naïve Hepatitis C Patients1998 - 2001Searle Research Grant. Cox II Inhibitor: Effect on Gastric Mucosa1997 - 2000NCI, Barrett's Multicenter Trial1998 - 2000NIH RO1 DK45062		Hepatitis C
2000 - 2003Schering Oncology, Therapy for Naïve Hepatitis C Patients1998 - 2001Searle Research Grant. Cox II Inhibitor: Effect on Gastric Mucosa1997 - 2000NCI, Barrett's Multicenter Trial1998 - 2000NIH RO1 DK45062	2000 - 2002	National Institutes of Health, Research Supplement for
1998 – 2001Searle Research Grant. Cox II Inhibitor: Effect on Gastric Mucosa1997 – 2000NCI, Barrett's Multicenter Trial1998 – 2000NIH RO1 DK45062		Underrepresented Minority
1997 – 2000         NCI, Barrett's Multicenter Trial           1998 – 2000         NIH RO1 DK45062	2000 - 2003	Schering Oncology, Therapy for Naïve Hepatitis C Patients
1998 – 2000 NIH RO1 DK45062	1998 - 2001	Searle Research Grant. Cox II Inhibitor: Effect on Gastric Mucosa
	1997 – 2000	NCI, Barrett's Multicenter Trial
1993 - 1998 NIH First Award R29DK45062	1998 - 2000	NIH RO1 DK45062
	1993 - 1998	NIH First Award R29DK45062

1998 - 1999	Samuel J. Roessler Memorial Scholarship (Sponsor)
1997 - 1998	Searle Research Grant
1997 - 1998	Davis Medical Center Grant
1996	Underrepresented Minority Graduate School Summer Research
	Grant (Sponsor)
1991 - 1995	Industry/Research Scholar Award, American
	Gastroenterological Association

# MEMBERSHIPS, NATIONAL & INTERNATIONAL PROFESSIONAL ACADEMIC ORGANIZATIONS:

2011 – Present	American Medical Informatics Association
2010 – Present	Society for Clinical and Translational Science
2004 – Present	West Virginia State Medical Association
1997-Present	Federation of American Society of Experimental Biology
1996-Present	American Physiological Society
1995-2001	Midwest Gut Club
1992-Present	American College of Gastroenterology
1991-Present	Gastroenterology Research Group
1989-Present	American Gastroenterological Association

# **INVITED LECTURES**

University of California at San Diego, Gastroenterology Division
University Illinois at Chicago, Gastroenterology and Hepatology
Division
Christian Medical College, Vallore, India, Gastroenterology
Division
University of Maryland, Division of Gastroenterology
Tulane University School of Medicine, Gastroenterology Division
Veterans Administration, Chillicothe, Gastroenterology Division
Dept of Physiology, Ohio State University
Veterans Administration, Columbus, Gastroenterology Division
Chairman, Annenberg Symposium, "New Strategy in
Inflammatory Bowel Disease Therapy."
Med-Ohio Lecture, Columbus, "New Treatment Trends in
Hepatitis C".
Ohio Medical Education Network Conference, "Unexplained
Diarrhea in Children & Adults."
Co-Chairman, American Pseudo-Obstruction and Hirschprung
Disease Society, Peurach Family Pseudo Obstruction Workshop.

2000	Columbus Internists and Family Practitioners Conference, "Hepatitis C Diagnosis and Treatment"
2000	Central Ohio General Practitioners Lecture, "New Strategies in the Treatment of Hepatitis C"
2001	Allied Health Professionals Conference, "New Advances in IBS Treatment"
2000	Madison County Hospital Medical Grand rounds, "Treating Hepatitis C"
2000	Marion General Hospital Medical Grand rounds, "New Treatments for Irritable Bowel Disease"
2001	Research Seminar, University of Rochester, School of Medicine Clinical Associate Forum, "Evaluation and Management of Patients with Hepatitis C", University of Rochester, School of Medicine.
2002	University of Rochester, School of Medicine Medical Grand Rounds, "The Hepatitis C Epidemic"
2002	Pathology Seminar Series: "Immune Regulation of Na & Nutrient Transport in Chronically Inflamed Intestine", University of Rochester, School of Medicine
2000	Cliffton Springs Memorial Hospital Medical Grand Rounds, "Advances in the Management of Hepatitis C"
2003	Digestive Diseases Research Conference, University of Rochester Medical Center, "cNO Regulation of SGLT-1 and NHE3"
2003	Chairman, Annual Goodman, Klein, Pinckney Family Foundation Pancreatic Cancer Symposium, Rochester, New York
2003	Chairman, Chronic Liver Foundation Symposium on Hepatitis C, Rochester, NY
2003	Chairman, Updates in Gastroenterology Symposium, Rochester, NY
2003	West Virginia University Medical Center, "Diagnosis and treatment of Hepatitis C."
2003	University of Missouri Medical Center, "Immune Regulation of Electrolyte Transport in the Chronically Inflamed Intestine."
2003	Howard University School of Medicine, "Advances in the management of Hepatitis C."
2004	West Virginia University Medical Center, Medical Grand Rounds "The Hepatitis C Epidemic."
2004	30 <sup>th</sup> Annual Hal Wagner Family Medicine Conference, "Update on Hepatitis C."
2005	Ohio Valley Medical Center Grand Rounds, "Diagnosis and treatment of Hepatitis C."
2005	West Virginia University Medical Center, Surgery Grand Rounds "Hepato Billiary Disorders."
2006	Memphis, TN Veteran's Affair Medical Center Research Conference, "Immune Regulation of Na-glucose co-transport."
2006	University of Tennessee, Division of Gastroenterology Conference, "Immune Regulation of Intestinal Absorption."

2006	WVSMA/Wheeling, WV, Current Issues &Developments in Medicine, "Advances in Hepatitis C"
2006	University of New Mexico, Division of Gastroenterology Research Conference, "Immune Regulation of Absorption and Secretion in Inflammatory Bowel Disease"
2006	Albuquerque, New Mexico, Gastroenterology Clinical Lecture, "Update in Hepatitis C"
2006	West Virginia University Digestive Disease Symposium, "Diagnosis and treatment of Inflammatory Bowel Disease"
2007	West Virginia University Hospital Endoscopy Nurses Meeting "GERD in the Elderly Patient."
2007	West Virginia University School of Medicine Medical Grand rounds "Obstructive Jaundice."
2007	West Virginia University Digestive Disease Symposium, "Advances in Chronic Hepatitis B and C."
2008	St. Vincent's and Mercy Medical Center Lecture, "The Hepatitis C Epidemic."
2008	University of Toledo Health Science Center Medical Grand rounds, "Advances in Celiac Sprue."
2008	West Virginia University School of Medicine Medical Grand rounds "Celiac Sprue"
2008	West Virginia University Digestive Disease Symposium, "Hepatitis C epidemic."
2008	Monongahela County Medical Society meeting, "Advances in the diagnosis and treatment of Hepatitis C"
2008	34 <sup>th</sup> Annual Hal Wanger Family Medicine Conference, "Advances in IBD"
2008	Division of Gastroenterology, Johns Hopkins University School of Medicine, "NO regulation of NHE3 and SGLT1"
2009	West Virginia University Neurosciences Center Symposium. Clinical and Translational Science Award.
2009	35 <sup>th</sup> Annual Hal Wanger Family Medicine Conference, "Advances in the treatment of Hepatitis C"
2009	Crohn's and Colitis Foundation of America, WV Symposium, "Diagnosis and treatment of IBD."
2009	West Virginia University Foundation Symposium, "West Virginia Clinical and Translational Science Institute."
2010	West Virginia University, Provost's Dean's Council "Update on WV CTSA."
2010	36 <sup>th</sup> Annual Hal Wanger Family Medicine Conference, Medicine Grand Rounds "Celiac Sprue"
2010	Division of Gastroenterology and Nutrition, University of Illinois at Chicago, "Unique regulation of Na-nutrient co-transport"
2010	West Virginia University School of Medicine Retreat, "Update on WVU SOM Research."
2011	West Virginia University School of Medicine Grand Rounds, "Advances in the diagnosis and treatment of Hepatitis C'

2011	37 <sup>th</sup> Annual Hal Wanger Family Medicine Conference, "Diagnosis
2011	and treatment of acute pancreatitis"
2011	University of Medicine and Dentistry of New Jersey seminar
• • • •	"Inflammatory Bowel Disease"
2012	University of Illinois, Champaign-Urbana, "Immune Regulation of
	Electrolyte Transport"
2012	St. Vincent's and Mercy Medical Center, Toledo, "Radiofrequency
	ablation of Barrett's esophagus."
2012	Mercy Visiting Professor University of Toledo Health Science
	Center Medical Grand Rounds, "Direct Visualization
	Cholagioscopy."
2012	NIH, NIGMS, IDeA Symposium, "Clinical Translational Research
	Award"
2012	West Virginia University Neuroscience Symposium, "West
	Virginia Clinical and Translational Science Institute and WV IDeA
	CTR"
2012	Student Health Service Symposium, West Virginia University,
	"Advances in celiac sprue."
2012	National Advisory Committee, West Virginia University Health
	Science Center, "WVCTSI and IDeA CTR award."
2013	West Virginia University Health Science Center Townhall,
	"WVCTSI What it means for you."
2013	West Virginia School of Osteopathic Medicine Mid Winter
	Conference, "Clinical Translational Research."
2013	Department of Health and Human Services, State of West Virginia,
	"IDeA CTR for the State."
2013	Linking Innovation Industry and Commercialization, "Clinical and
	Translational Science Research and Industry Partnership."
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# HONORS AND AWARDS

NIH, NIGMS IDeA CTR U54 Study Section Member
Mercy Health Partners Visiting Professor, University of Toledo Medical
Center
ZRG1 DKUS-C Study Section Member
Chairman, AGA Translational Symposium, Advances in the
treatment of chronic diarrhea.
NIH ZDK1 GRB-N (O5) Study Section Member
NIH ZDK1 GRB-6 (J1) Study Section Member
Visiting Professor, University of Illinois at Chicago
Veterans Affairs Merit Review Gastroenterology Study Section
Visiting Professor, Johns Hopkins University School of Medicine,
Mercy Health Partners Visiting Professor, University of Toledo
Medical Center
NIH ZDK1 GRB-G J1 Study Section Member
NIH ZRG1-DIG C Study Section Member
Dean's Award for Excellence in Research, West Virginia
University School of Medicine
Session Chair, Intestinal Disorders, American Gastroenterological
Association.

2002 - 2006 2004 - 2005 2003 - Present 2003 - 2004 2002 - 2003 2002 - 2004 2004 2002 2002 2002 2001 - 2002 2001 - 2004 2001 - 2004 2004	NIH, NIDDK – CIGP Study Section Member Ad Hoc Member, Veterans Affairs Merit Review Committee AGA, In Service Exam Subcommittee Member AGA, Abstract Committee, Clinical Intestinal Disorders AGA, Abstract Committee, Neuroimmune Regulation Motility AGA, Elsevier Research Initiative Award Chairman NIH, NIDDK – GMPB Study Section Ad Hoc Member NIH, ZDK1 GRB-6 Study Section Ad Hoc Member NIH, Nutrition Study Section Ad Hoc Member NIH, NIDDK – GMA 2 Study Section Ad Hoc Member AGA, Research Committee Member AGA, Research Scholar Award Committee Member AGA, Roche Research Scholar Award Committee, Member
2001	AGA, Career Development Task Force Review Committee
2002	Co-Chair, Intestinal Pseudo-Obstruction Society Conference,
2002	Newport Beach, CA
1995 – 1996	Alberta Heritage Foundation, Canada, Ad Hoc Member
1994	Medical Advisory Board Chair, Crohn's and Colitis Foundation of
	America, Columbus,OH
1994	Session Co-chairman, Intestinal Disorders, Intestinal Transport of
	Non-Electrolytes, American Gastroenterological Association
1991	Session Co-Chairman, Intestinal Disorders, Regulation of
	Intestinal Anion Transport, American Gastroenterological
1001	Association.
1991	Industry/Research Scholar Award from the American
1000 1000	Gastroenterological Association, 7/1/91-6/30/95
1989-1992	New Investigator Award, the American Heart Association
1989-1991	Research Fellowship Award, the National Foundation for Ileitis and Colitis
1988-1989	American Gastroenterological Association Senior Research
1700 1707	Fellow Award
1987-1988	American Gastroenterological Association Senior Research
	Fellow Award
1980	Tau Beta Pi (National Engineering Honor Society)
	General Honors, Johns Hopkins University
	Departmental Honors, Johns Hopkins University

#### **EDUCATIONAL CONTRIBUTION**

# **1.** Basic science research mentoring:

### **Undergraduate/medical/graduate students:**

Jose Lojo Undergraduate Student 1996-1997 Under Represented Minority Grant (Sponsor U. Sundaram) from OSU for summer research. He is currently a medical student at Emory Univ.

Paul KassarMedical Student1998 – 1999Samuel J. Roessler Memorial Scholarship (Sponsor U. Sundaram) from OSU for

summer research. He is currently a medical student at OSU.

Clancy	Samuel J. Roessler M	Medical Student emorial Scholarship (Sponsor is currently a medical student	
Steve C	Obtained his PhD in U	Graduate Student U. Sundaram's lab in 2000. He n's lab and has a NIH Individu	5
Ming H		Graduate Student in U. Sundaram's Lab in 1999	1997 - 1999 and working for industry.
Krystel	Undergraduate studen	Undergraduate Student at in Biology working in U.Sur J of R and continue in U.Sund	ndaram's lab and will be a
Walter	Bressler Graduate student at W	Graduate Student /VU worked in U. Sundaram's	2006 – 2009 s lab towards his PhD.
Farid J		Medical Student ical Project: Biliary Stones Ex	2011 – 2012 traction Techniques
Intern	al Medicine Resident	s	
Thalia	Mayes	Medicine Resident	2002 - 2004
Michae	el Kader	Medicine Resident	2002 - 2004
<b>.</b>	2.6 11		2002 2004

Laticia Mendler	Medicine Resident	2002 - 2004
Bradford Samson	Medicine Resident	2002 - 2004
Anthony Sousou	Medicine Resident	2002 - 2004
Rebecca Burbridge	Medicine Resident	2005 - 2007
Abraham Kanate	Medicine Resident	2005 - 2007
Sarah Hadique	Medicine Resident	2006 - 2008

#### **PostDoctoral Fellows:**

Karthik Penumetsa

John Ward, MD Post Doctoral Fellow 1995-1996 Gastroenterology Fellow, studied the effect of chronic inflammation on dipeptide transport in rabbit ileum in Sundaram's lab, presented an abstract at the AGA. He

2010 - 2011

Medicine Resident

is in private practice in Cincinnati.

- Tasos Manokas, MDPost Doctoral Fellow1996-1997Gastroenterology Fellow, studied the distribution of SCFA:HCO3 exchange in the<br/>ileum in Sundaram's lab, presented an abstract at the AGA and published a paper<br/>in AJP. He is an Assistant Professor at OSU.1996-1997
- Sheik Wisel, Ph.D. Post Doctoral Fellow 1995 2000
  Postdoctoral fellow, studied the molecular mechanism of alteration of SGLT-1 during chronic enteritis in Sundaram's lab, presented three abstracts at the AGA and was a co-author on four publications in the AJP. He is a Research Scientist at OSU, Division of Nephrology.
- David Haller, MD Post Doctoral Fellow 1998 1999 Gastroenterology Fellow, studied Na-adenosine co-transport alteration in chronic ileitis in Sundaram's lab and presented an abstract at the AGA. He is in private practice in Wisconsin.
- James Kim, MD Post Doctoral Fellow 1998 1999 Gastroenterology Fellow, determined the effect of constitutive NO on SGLT-1 in the ileum in Sundaram's lab, presented an abstract at the AGA and manuscript is under review. He is in private practice in Columbus, OH.
- David Quinn, MD Post Doctoral Fellow 1999 2000 Gastroenterology Fellow, determined the effect of PLA2 inhibition on Na-glucose co-transport in villus cells in Sundaram's lab, work presented as an abstract at the AGA. He is an Assistant Professor at OSU.
- Michael Baird, MD Post Doctoral Fellow 1999 2000 Gastroenterology Fellow, determined the effect of cAMP on Na-amino acid cotransport in IEC-6 cells in Sundaram's lab, work completed for an abstract at the AGA. He is an Assistant Professor at OSU.
- Scott Clark, MD Post Doctoral Fellow 2000 2001 Gastroenterology Fellow studied the distribution of Na-glutamine co-transport along the villus-crypt axis of the ileum in Sundaram's lab. He is in private practice in Ohio.
- Cecillia Terrado, MD Post Doctoral Fellow 2000 2001 Gastroenterology Fellow studied the effect of LTD4 on SGLT-1 in IEC-6 cells in Sundaram's lab. She is in private practice in California.
- Guohong Shao, MD, PhD Post Doctoral Fellow 2000 2001 PostDoctoral Fellow currently studied the molecular regulation of Na-amino acid co-transport during chronic ileal inflammation. He is currently a postdoctoral fellow in Children's Hospital, Columbus, OH.
- Mustafa Ahmed, MD Post Doctoral Fellow 2000 2001 Recipient of NIH Research Supplement for Underrepresented Minority (Sponsor

U. Sundaram) to study the effect of prostaglandins on IBAT during chronic ileitis in Sundaram's lab.

- Steven Coon, PhD Post Doctoral Fellow 2000 2004 Recipient of NIH individual NRSA (Sponsor U. Sundram) to study the COX II regulation of Cl:HCO3 exchange in the chronically inflamed ileum in Sundaram's lab. Has had multiple presentations at the AGA and is co-author of multiple **AJP** papers and manuscripts submitted for publication. He is a Senior Instructor in Medicine at WVU.
- Sridar Varanasi, MD, PhD Post Doctoral Fellow 2001 2003
   Post doctoral fellow currently studying the immune regulation of Na-bile acid cotransport in the chronically inflamed intestine. He is in private practice in Chennai, India.
- Anubha Sinha, MD, PhD Post Doctoral Fellow 2002 2003 Post doctoral fellow currently studying the regulation of Na amino acid cotransport by phorbol in IEC-6 cells. She is in private practice in Pennsylvania.
- Seth Wheeler, MD Post Doctoral Fellow 2002 2003 Post doctoral fellow currently studying the immune regulation of Na-glutamine co co-transport in the chronically inflamed intestine. He is in private practice in Oklahoma.
- Dong Hzu Jin, PhD Post Doctoral Fellow 2003 2004 Post doctoral fellow currently studying the immune regulation of Na-bile acid cotransport in the chronically inflamed intestine. He is a post-doctoral fellow at NYU.
- Johnvesly Basappa, PhD Post Doctoral Fellow 2003 2004 Post doctoral fellow currently studying the regulation of SGLT in IEC-6 cells. He is a post-doctoral fellow in Boston.
- Jamil Talukder, DVM Post Doctoral Fellow 2003 2009 Post doctoral fellow currently studying the immune regulation of Na-amino acid co-transport in the chronically inflamed intestine.
- Mohammad Razvi, MD Post Doctoral Fellow 2005 2006 Post doctoral fellow currently studying the regulation of Na-K-ATPase in the intestine. He is a post-doctoral fellow at Vanderbilt Univ.
- Subha Arthur, Ph.D. Post Doctoral Fellow 2005 Present Post doctoral fellow currently studying glutamine transport along the crypt villus axis of the rabbit intestine.
- Palani Kumar, Ph.D. Post Doctoral Fellow 2005- Present Post doctoral fellow currently studying PGE2 regulation of SGLT-1 in IEC-18 cells.

- Prosenjit Saha, Ph.D. Post Doctoral Fellow 2005- 2009 Post doctoral fellow currently studying the transcriptional regulation of SGLT-1.
- Yevginy Ostrinsky, MD Post Doctoral Fellow 2007-2009 Gastroenterology Fellow studying the mechanism of inhibition of Fe absorption in the IBD intestine.
- Jeffery Ye, MD, PhD Post Doctoral Fellow 2007-2009 Gastroenterology Fellow studying the alterations in Na-adenosine co-transport in the chronically inflamed intestine.
- Max Miranda, MD Post Doctoral Fellow 2008 2010 Gastroenterology Fellow studying the effect of adenosine receptor knockout on intestinal electrolyte and nutrient transport.
- Justina Ju, MD Post Doctoral Fellow 2008 2010 Gastroenterology Fellow studying the effect of SGLT-1 and NHE3 stable transfection knockout in epithelial cells.
- Justin Kupec, MD Post Doctoral Fellow 2009 2011 Gastroenterology Fellow studying the mechanism of inhibition of Na-nutrient cotransport in the IBD intestine.
- Andrew Roorda, MDPost Doctoral Fellow2009 2011Gastroenterology Fellow studying the alterations in anion exchangers in the<br/>chronically inflamed intestine.anion exchangers in the
- Matt Weed, MDPost Doctoral Fellow2010 2012Gastroenterology Fellow studying the effect of chronic intestinal inflammation<br/>and oncogenesis on intestinal electrolyte and nutrient transport.
- Swapna Gayam, MD Post Doctoral Fellow 2010 2012 Gastroenterology Fellow studying the effect of Na-K-ATPase knockout on naglucose co-transport in epithelial cells.
- Jonathan Livko, MD Post Doctoral Fellow 2011 Present Gastroenterology Fellow studying the effect of BLM Na-K-ATPase inhibition on BBM Na-nutrient co-transporters in intestinal epithelial cells.
- Henry Lin, MDPost Doctoral Fellow2011 PresentGastroenterology Fellow studying the effect of inflammation and carcinogenesis<br/>on NaCl absorption in the rat colon.2011 Present
- Soudamani Singh, PhD Post Doctoral Fellow 2010 Present Post Doctoral fellow working on immune regulation of B0AT1 and SN2 in the rabbit intestine.
- Bala Palaniappan, PhDPost Doctoral Fellow2010 PresentPost Doctoral fellowworking on regulation of Na-nutrient co-transport in rat

colon cancer during chronic intestinal inflammation.

Ravi Juluri, MDPost Doctoral Fellow2012 – PresentGastroenterology Fellow studying the effect of immune regulation of Na-K-<br/>ATPase in the chronically inflamed intestine.

Weiming Yan, MD, PhD Post Doctoral Fellow 2012 – Present Gastroenterology Fellow studying the signaling pathway of NHE3 regulation of SGLT1 in intestinal epithelial cells.

#### 2. Clinical research mentoring:

- Chris Mabee, MD Gastroenterology Fellow 1995 1997 Gastroenterology Fellow, studied the pulmonary infectious complications of cirrhosis under U. Sundaram's direct supervision, he presented an abstract at the ASGE, published the manuscript in **Am. J. Gastro** and is a Clinical Assistant Professor at OSU and Riverside Hospital.
- John Clements, MD Gastroenterology Fellow 1995 1997 Gastroenterology Fellow, initiated an ongoing prospective study on the prevalence of and utility of ANCA in hepatitis C patients under U. Sundaram's direct supervision, he is in private practice in North Carolina.

John Papp, MD Gastroenterology Fellow 1995 - 1997 Gastroenterology Fellow, studied the cost effectiveness of evaluation for inpatient diarrhea under U.Sundaram's direct supervision. He presented an abstract at the ACG and the manuscript is under review. He is in private practice in Michigan.

- Adam Tzagournis, MD Gastroenterology Fellow 1996 1999 Gastroenterology Fellow, conducted a prospective study on the efficacy of infergen versus interon a for hepatitis C under U. Sundaram's direct supervision. He is an Assistant Professor at OSU
- Bennie Upchurch, MD Gastroenterology Fellow 1996 1999
   Gastroenterology Fellow, studied the utility of 72 hour fecal cost in the diagnosis of diarrhea under U. Sundaram's direct supervision, he is writing an an abstract for the ACG and a manuscript. He is in private practice in Indiana.
- Anjana Samadder, MD Gastroenterology Fellow 1997 2000 Gastroenterology Fellow, studied the utility of push enteroscopy for iron deficiency anemia under U. Sundaram's direct supervision, she is preparing an abstract for the ACG. She is a Clinical Assistant Professor at OSU.
- Marta Bergese, MD Gastroenterology Fellow 1998 2001 Gastroenterology Fellow, prospectively studied the utility of routine biopsies of the antrum in symptomatic and asymptotic patients undergoing EGDs under U. Sundaram's direct supervision. She is in private practice in Columbus.

Nancy Reau, MD Gastroenterology Fellow 1999 - 2002 Gastroenterology Fellow, prospectively studied the role of low carotene in patients with abnormal liver function tests and hepatitis C under U. Sundaram's direct supervision. She is in private practice in Chicago.

Parvez Mantry, MD Gastroenterology Fellow 2000 - 2003 Gastroenterology Fellow, prospectively studied the utility of capsule endoscopy in iron deficiency anemia under U. Sundaram's direct supervision. He is an Assistant Professor of Medicine at U of R.

Tarek Qutob, MDGastroenterology Fellow2000 - 2003Gastroenterology Fellow, retrospectively studied the mesenteric tumor studding<br/>resulting in SBO under U. Sundaram's direct supervision. He is in private<br/>practice.

Mohammed Karim, MD Medicine Resident 2005 – 2007 Medicine resident studied the utility of abdominal CT scans in the evaluation of gastrointestinal inflammation.

Rubayat Rahman, MD Medicine Resident 2005 – 2007 Medicine resident studied the correlation between MRCP and ERCP for hepatobilliary diseases.

Swapna Gayam, MD Medicine Resident 2006 – 2009 Medicine resident studied the role of ERCP for billiary stent removal in hepatobilliary diseases.

Kimberly Fairley, MD Medicine Resident 2008 – 2010 Medicine resident studied the effect of interleukins on electrolyte and nutrient transport in intestinal epithelial cells.

Mark Volinger, MDMedicine Resident2009 – 2011Medicine resident studied the role of BE for incomplete colonoscopies.

Karthik Penumetsa, MD Medicine Resident 2009 – 2011 Medicine resident studied the role of MRCP for abnormal US findings.

Shashank Ponugoti, MDMedicine Resident2012 – PresentAppropriate indications for repeat ERCP.2012 – Present

Eric Huang, MD Medicine Resident 2012 – Present Obesity and surgical management experience in West Virginia.

#### **3.** Doctoral Dissertation Advisor:

Je-Yoel Cho	Graduate Student	1995 - 1999
Steven Coon	Graduate Student	1995 - 2000
	14	

Su-Mei Liu	Graduate Student	1997 - 2001
Jorge Guzman	MD-PhD Student	1998 - 2001
Walter Bressler	Graduate Student	2006 - 2010

**4. Didactic Lectures:** 4 - 6 per year to  $1^{st}$ ,  $2^{nd}$  and  $3^{rd}$  year medical residents and medical students on IBD, UC, heaptobilliary diseases.

# 5. Medical Resident and GE Fellow Clinical Teaching Activities:

- -- 4 hours per week in GE/Liver Clinic
- -- 8 hours per week endoscopies and liver biopsies
- -- 1 research seminar every other week

#### EDITORIAL ASSIGNMENT IN PROFESSIONAL JOURNALS:

2012 – Present	Editorial Board, Cureus
2010 - Present	Associate and Series Editor, Practical Gastroenterology
2005 - Present	Managing Editor, Frontiers in Bioscience
1997 - Present	Peer Reviewer for American Journal of Physiology:Cell
1993 - Present	Peer Reviewer for Journal of Clinical Investigation
1993 - Present	Peer Reviewer for Gastroenterology
1989 - Present	Peer Reviewer for American Journal of Physiology: Gastrointestinal and Liver
1989 - Present	Peer Reviewer for Journal of Clinical Gastroenterology

# NATIONAL/INTERNATIONAL ADVISORY AND RESEARCH REVIEW COMMITTEES:

2009 - 2012	Board of Governers, Blanchette Rockefeller Neurosciences Center
2006 - 2008	West Virginia Board of Medicine, Expert Consultant
2005 - 2007	UNICARE National Credentialing Committee
2004 - 2006	Veteran's Affairs Merit Review, Gastroenterology Study Section
2002 - 2006	NIH, NIDDK – GMA 2 Study Section Permanent Member
2003 - 2005	AGA, Abstract Review Committee, Clinical Intestinal Disorder,

Diarrheal Diseases

2003 – Present	AGA, In-service Exam Committee
2002 - 2003	NIH, ZDK1 GRB-6 Study Section Member
2002 - 2003	NIH, Nutrition Study Section Ad Hoc Member
2002 - 2004	AGA Elsevier Research Scholar Award Committee Chairman
2001 - 2004	AGA Research Scholar & Fellowship Faculty Transition Award Committee Member
2002 - 2004	AGA Abstract Review Committee, Motility & Nerve-Gut Interactions
1995 - 2000	Alberta Heritage Foundation, Canada, Ad Hoc Member
2001 - 2004	AGA Career Development Task Force Review Committee
2001 - 2002	NIH, NIDDK – GMA 2 Study Section Ad Hoc Member
1993 - 1995	AGA Abstract Selection Committee, Intestinal Disorders

# **CONSULTATIONS TO UNIVERSITIES:**

2013 – Present	GME, Health Disparities Committee, WVU HSC
2009 – Present	WVU School of Medicine MD PhD Admissions Committee
2007 – Present	WVU Health Sciences Center Bridge Grant Committee
2006 – Present	WVU Health Sciences Center Chair and Center Director's Advisory Group
2006 – Present	WVUH Standardized Clinical Indications and Evidence Navigated Clinical Execution (SCIENCE) Committee
2006 - 2009	WVUH Council of Surgical Chairs
2006 - 2008	WVUH Credentials Committee
2006 - 2008	Chairman, WVU Health Sciences Diabetes and Obesity Center Director Search Committee
2004 – 2011 2004 – Present	Department of Medicine, Promotions and Tenure Committee Department of Medicine, Research Committee, WVU

2004 - 2012	Department of Medicine, Advisory Committee, WVU
2004 - 2007	Chair, Health Sciences Center Research and Development and Bridge Grant Committee, WVU
2004 – Present	Health Sciences Center Strategic Research Initiative Plan Committee, WVU
2005 - 2006	Director for Center of Obesity and Diabetes Research Center Search Committee, WVU
2004 - 2005	Assistant Dean of Research Search Committee, WVU
2004	Center for Pulmonary Medicine Search Committee, WVU
2000 - 2001	Medical Scientist Training Program Core Faculty, OSU
2000 - 2001	Department of Internal Medicine Research Committee, OSU
2001 - 2001	Department of Internal Medicine Space Utilization Committee, OSU
2001 - 2001	Department of Internal Medicine Rewards/Awards Committee, OSU
1996 – 2001	OSU Independent Study Academic Program Committee, OSU
1995 – 2001	Division of Digestive Diseases Research Committee Chair, OSU
1995 – 2001	Division of Digestive Diseases Fellowship Training Committee, OSU
1995 - 2000	Ohio State University Institutional Review Board

#### **PUBLICATIONS:**

- 1. Ohata M, Sundaram U, Fredericks WR, London E and SI Rapoport. "Regional Cerebral Blood Flow During Development and Aging of the Rat Brain." **Brain**, 104:319-332, 1981.
- Ohata M, Fredericks WR, Sundaram U and SI Rapoport. "Effect of Immobilization Stress on Regional Blood Flow in the Conscious Rat." Journal of Cerebral Blood Flow and Metabolism, 1:187-194, 1981.
- 3. Rapoport SI, Fitzhugh R, Pettigrew KD, Sundaram U and K Ohno. "Drug Entry Into and Distribution within Brain and Cerebrospinal Fluid. 14C-Urea Pharmacokinetics." **American Journal of Physiology**, 242:R339-348, 1982.

- 4. Ohata M, Fredericks WR, Newelt EA, Sundaram U and SI Rapoport. "3H-Methotrexate Loss From the Rat Brain following Enhanced Uptake by Osmotic Opening of the Blood Brain Barrier." **Cancer Research,** 45:1092-1096, 1983.
- 5. Sundaram GS, Manimekalai S, Unni S, Goldstein PJ, Sundaram U, Bray KR and PK Gaur. "Evaluation of Antigen CA-195 for the Detection of Colon Cancer." **Journal of Tumor Marker Oncology,** 2:315-319, 1987.
- 6. Sundaram U, Knickelbein RG and JW Dobbins. "pH Regulation in Ileum: Na:H and Cl:HCO3 Exchange in Isolated Crypt and Villus Cells." **American Journal of Physiology**, 260:G440-G449, 1991.
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- Sundaram U, Knickelbein RG and JW Dobbins. "Mechanism of Intestinal Secretion: Effect of Cyclic AMP on Rabbit Ileal Crypt and Villus Cells." Proceedings of the National Academy of Science, 88:6249-6253, 1991.
- 9. Sundaram U and HJ Binder: "Pathophysiology of Acute Diarrhea in the Intensive Care Unit." In **Principles and Practice of Medical Intensive Care.** Eds. Geheb, M. And R. Carlson. W.B. Saunders Co. Chapter 127, Pgs. 1464-1469, 1993.
- Sundaram U. "The Small Intestine." In Clinical Gastroenterology. Ed. Spiro, H.M. McGraw-Hill Inc. Chapter 19, Pgs. 343-366, 1993.
- Sundaram U and HJ Binder. "Diabetic Diarrhea." In Current Therapy in Gastroenterology and Liver Disease. Ed. Bayless, T.M., Mosby-Year Book, Pgs. 323-326, 1994.
- 12. Sundaram U. "Mechanism of Intestinal Absorption: Effect of Clonidine on Rabbit Ileal Villus and Crypt Cells." **Journal of Clinical Investigation,** 95:2187-2194, 1995.
- 13. Sundaram U and M Traube. "A Radiologic and Manometric Study of the Gastroesophageal Junction in Dysphagia Aortica." **Journal of Clinical Gastroenterology,** 21:275-8, 1995.
- 14. Sundaram U and AB West. "Effect of Chronic Inflammation on Electrolyte Transport in Rabbit Ileal Crypt and Villus Crypt." **American Journal of Physiology**, 272:G9732-G741, 1997.
- Mabee CL, Pacht ER, Kirkpatrick RB, Fromkes JJ, and U Sundaram.
   "Immunosuppression Secondary to Cirrhosis is Associated with Pulmonary Opportunistic Infections." Journal of Clinical Gastroenterology, 26:44-49, 1998.

- 16. Sundaram U, Wisel S, Rajendran VM and AB West. "Mechanism of Inhibition of Na-Glucose co-Transport in the Chronically Inflamed Ileum." **American Journal of Physiology**, 273:G913-G919, 1997.
- Sundaram U, Wisel S, and J J Fromkes. "Unique Mechanism of Inhibition of Na-Amino Acid co-Transport During Chronic Ileal Inflammation." American Journal of Physiology, 275:G483-G489, 1998.
- Sundaram U, Wisel S, Stenglin S, Kramer W and VM Rajendran. "Mechanism of Inhibition of Na-bile Acid Co-Transport During Chronic Ileal Inflammation in Rabbits." American Journal of Physiology, 275:G1259-G1265, 1998.
- 19. Sundaram U, Coon S, Wisel S and West A B. "Corticosteroids Reverse the Inhibition of Na-Glucose Co-Transport in the Chronically Inflamed Rabbit Ileum." **American Journal of Physiology**, 276:G211-G218, 1999.
- 20. Sundaram, U. "Regulation of Vitamin B<sub>2</sub> Absorption." **American Journal of Physiology**, 278:C268-C269, 2000.
- 21. Manokas T, Fromkes J, and U Sundaram. "Effect of chronic inflammation on ileal short-chain fatty acid/bicarbonate exchange." **American Journal of Physiology**, 278:G585-G590, 2000.
- 22. Coon S and U Sundaram. "Mechanism of glucocorticoid-mediated reversal of inhibition of Cl:HCO<sub>3</sub> exchange during chronic ileitis." **American Journal of Physiology**, 278:G570-G577, 2000.
- Sundaram U, Hassanain H, Zacharias S, Jun Ge Y, Cooke H, Jorge G and F Christofi. "Rabbit Chronic Ileitis leads to Up-regulation of Adenosine A1/A3 Gene Products, Oxidative Stress, and Immune Modulation." Biochemical Pharmacology, 7595, p1-10, 2003.
- 24. Mantry P, Shah A, and U Sundaram. Celecoxib induced esophagitis: Gastrointestinal side effects from COX-2 inhibitors. Journal of Clinical Gastroenterology, 37(1): 61-63, 2003.
- 25. Coon S and U Sundaram. "Unique Regulation of anion:HCO3 Exchangers by Constitutive Nitric Oxide in Rabbit Small Intestine." 285:G1084-1090, American Journal of Physiology, 2003.
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- 27. Basavappa S, Vulapalli SR, Zhang H, Yule D, Coon, S and U Sundaram.
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- 29. Sundaram U, Wisel S, and S Coon. "Mechanism of Inhibition of Proton: Dipeptide co-Transport During Chronic Enteritis in the Mammalian Small Intestine." **Biochemica et Biophysica Acta**, 1714: 134-140, 2005.
- 30. Sundaram U, Wisel S and S Coon. "Neutral Na-Amino Acid co-Transport is Differentially Regulated by Glucocorticoids in the Normal and Chronically Inflamed Small Intestine." **Am J Physiol** 292(2):G467-74, 2007.
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- 32. Kekuda R, Saha P, and U Sundaram. Role of Sp1 and HNF1 transcription factors in SGLT1 regulation during chronic intestinal inflammation. **Am. J. Physiol.**, 294:G1354-G1361, 2008.
- 33. Talukder J, Kekuda R, Saha P, and U Sundaram. Identification and characterization of rabbit small intestinal villus cell brush-border membrane Naglutamine co-transporter. **Am. J. Physiol.**, 295: G7-15, 2008.
- 34. Coon S, Kekuda R, Saha P, Talukder J and U Sundaram. Constitutive Nitric Oxide Differentially Regulates Na-H and Na-glucose co-Transport In Intestinal Epithelial Cells. **Am. J. Physiol.**, 294:G1369-G1375, 2008.
- 35. Talukder J, Kekuda R, Saha P, and U Sundaram. Mechanism of Leukotriene D4 inhibition of Na-alanine co-transport in intestinal epithelial cells. **Am. J. Physiol.**, 295:G1-6, 2008.
- 36. Talukder J, Kekuda R, Saha P, Prasad PD, Ganapathy V and U Sundaram. Functional characterization, localization and molecular identification of rabbit intestinal N-amino acid transporter. **Am. J. Physiol.**, 294:G1301-G1310, 2008.
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- 38. Coon s, Kekuda R, Saha P, and U Sundaram. Glucocorticoids differentially regulate Na-bile acid co-transport in normal and chronically inflamed rabbit ileal villus cells. **Am J. Physiol.** 298(5):G675-82, 2010.
- 39. Karim M, Miranda M, Shamma J, Goebel S and U Sundaram, Utility of Upper Endoscopy and Colonoscopy in Evaluating Gastrointestinal Luminal Wall Thickening Found on Computed Tomography. West Virginia Medical Journal, Vol. 106, 7:16-19, 2010.

- 40. Rahman R, Ju J, Shamma J, Goebel S, and U Sundaram, Correlation Between MRCP and ERCP findings at a Tertiary Care Hospital, West Virginia Medical Journal, Vol. 106, 5;14-19, 2010.
- 41. Roorda AK, Kupec JT, Ostrinsky Y, Shamma'a JM, Goebel SU, Sundaram U. Endoscopic approach to capsule endoscope retention. **Expert Rev Gastroenterol Hepatol.** (6):713-21, 2010.
- 42. Steven Coon, Ramesh Kekuda, Prosenjit Saha, and Uma Sundaram. "Reciprocal regulation of the primary sodium absorptive pathways in rat intestinal epithelial cells" **Am. J. Physiol Cell.** 300(3) C496-505, 2011.
- 43. Saha P, Arthur, S, Kekuda R and U Sundaram. "Na-glutamine co-transporters B0AT1 and SN2 are uniquely regulated in villus and crypt cells during chronic intestinal inflammation in rabbits. **Biochim Biophys Acta**. 1818(3):434-442, 2011.
- 44. Jalali F, Roorda AK, and U Sundaram. "Biliary stone extraction techniques: Old and new." **Practical Gastroenterology.** Vol:XXXV, 12: 17-46, 2011.
- 45. Arthur S, Saha P, Sundaram S, Kekuda R, and U Sundaram. Glucocorticoids reverse the alterations in Na-glutamine co-transport during chronic intestinal inflammation. **Inflammatory Bowel Disease.** 18(11):2149-57, 2012.
- 46. Kekuda, R, Manoharan, P, Baseler, W and U Sundaram, Monocarboxylate 4 (Slc16a3) rather than 1 (Slc16a1) is the primary butyrate transporter in the rat intestinal epithelial cell line IEC18, **Digestive Diseases and Sciences**. 2013 Jan 24. [Epub ahead of print].
- 47. Palanikumar M, Coon S, Sundaram S, Kekuda R and U Sundaram.
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- 48. Coon S, Saha P, Kekuda R Wisel S and U Sundaram. "Mast Cell Stabilization Alleviates the Inhibition of Na-Glucose co-transport. Submitted for Publication. **Am. J. Physiol.**, 2012.
- 49. Coon S and U Sundaram. "Mast Cell Membrane Stabilization Uniquely Regulates Anion Exchangers During Chronic Enteritis." Submitted for Publication. **Gastroenterology**, 2012.
- 50. Coon S, Kekuda R Saha P and U Sundaram. "Mast Cell Membrane Stabilization Alleviates the Inhibition of Na-Amino Co-Transport During Chronic Enteritis." Submitted for Publication. **Am. J. Physiol.**, 2012.
- 51. Coon S, and U Sundaram. "Inhibition of Inducible Nitric Oxide Production Reverses the Inhibition of Na-Glucose Co-transport in the Chronically Inflamed Rabbit Intestine." Submitted for publication. **Gastroenterology**, 2012.

- 52. Coon S, and U Sundaram. "Inducible Nitric Oxide Mediates the Inhibition of Na-Amino Acid and Co-transport in the Chronically Inflamed Rabbit Intestine." Submitted for publication, **Am. J. Physiol.** 2012.
- 53. Coon S Kekuda R, Saha P and U Sundaram. "Inducible nitric oxide uniquely regulates villus cell anion/HCO3 exchangers in the chronically inflamed rabbit intestine." Submitted for Publication **Journal of Physiology**, 2012.
- 54. Talukder J, Kekuda R, Saha P and U Sundaram. Mechanism of inhibition of Naglucose co-transport by Prostaglandin E2 in intestinal epithelial cells. Under review for publication. **Am. J. Physiol.** 2012.

#### **Abstracts Published/Presented:**

- 1. Shakir KM, Sundaram U, Sundaram GS and S Margolis. "Regulation of Lipoprotein Lipase Release from Isolated Rat Adipocytes." **Endocrine Society Abstracts,** 557:340, 1977.
- Ohata M, Sundaram U, Fredericks WR, London E and SI Rapoport. "Age Associated Alterations in Regional Cerebral Blood Flow in the Fischer-344 Rat." Society for the Neuroscience Abstracts, 1980.
- 2. Sundaram GS, London R, Manimekali S and U Sundaram, *et al.* "Metabolism of High Cholesterol and High Fat Diet in Swine." **American College of Nutrition Symposium Abstracts,** 1980.
- 3. Sundaram U, Sundaram M, Budd CG and BP Pansky. "Diabetes and High Density Lipoprotein Cholesterol." **Federation Proceedings**, 43:1643, 1984.
- 4. Sundaram U, Manimekali S, Hanumaiah B, Sundaram GS and P Goldstein. "Rat Liver Concentration of Enzymes, Hormones and Receptors in Experimentally Induced Diabetes." **Endocrine Society Abstracts,** 1985.
- 5. Sundaram U, Knickelbein RG and JW Dobbins. "Ion Transport in Isolated Rabbit Ileal Crypt and Villus Cells." **Gastroenterology**, 96:A496, 1989.
- 6. Sundaram U, Knickelbein RG and JW Dobbins. "Serotonin Stimulates Na:H Exchange in Crypt Cells and Inhibits C1:HCO3 Exchange in Villus Cells Isolated from the Rabbit Ileum." **Gastroenterology**, 98:A557, 1990.
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   Gastroenterology, 98:A546, 1990.
- 8. Frank DA and U Sundaram. "Regulation of Tyrosine Phosphorylation During the Differentiation of Rabbit Small Intestinal Epithelial Cells." **Proceedings of the American Association of Cancer Research,** 31:36(#210), 1990.

- 9. Sundaram U, Knickelbein RG and JW Dobbins. "Mechanisms of cAMP Mediated Ileal Secretion." **Gastroenterology**, 100:A705, 1991.
- Sundaram U and M Traube. "A Radiologic and Manometric Study of the Gastroesophageal Junction in Dysphagia Aortica." Gastroenterology, 102:A580, 1992.
- Sundaram U, Knickelbein RG, West AB and JW Dobbins. "Alteration in Electrolyte Transport Pathways in Chronic Inflammation of the Ileum." Gastroenterology, 102:A245, 1992.
- 12. Sundaram U. "Mechanism of Intestinal Secretion: Effect of Chronic Inflammation on Rabbit Ileal Crypt and Villus Cells." The Molecular and Cellular Basis of IBD Symposium, Center for Gastrointestinal Biology and Disease, Chapel Hill, NC, 1992.
- 13. Sundaram U. "Mechanism of Alpha-2 Agonist (Clonidine) Mediated Intestinal Secretion." Gastroenterology, 104:A283, 1993.
- 14. Sundaram RV, Rajendran VM, West AB and U Sundaram. "Chronic Intestinal Inflammation Inhibits Na-glucose co-Transport in Rabbit Ileal Villus Cells." **Gastroenterology**, 106:A1513, 1994.
- 15. Sundaram RV and VM Rajendran. "Mechanism of Na:Alanine co-Transport Inhibition in the Chronically Inflamed Rabbit Ileum." **Gastroenterology**, 108:A329, 1995.
- 16. Sundaram U and VM Rajendran. "Effect of Chronic Inflammation on Rabbit Ileal Na-Bile Acid co-Transport." **Gastroenterology**, 110:4365, 1996.
- Mabee CL, Pacht ER, Kirkpatrick RB, Fromkes JJ and U Sundaram.
   "Immunosuppression Secondary to Cirrhosis is Associated with Pulmonary Opportunistic Infections." AASLD, 1996.
- 18. Papp Jr JP, Fromkes JJ and U Sundaram. "Cost Effectiveness of Evaluation for Inpatient Diarrhea." American College of Gastroenterology, 1996.
- 19. Ward J, Coon S, Fromkes J and U Sundaram. "Effect of Chronic Inflammation on Ileal Dipeptide Transport." **Gastroenterology**, 112:418, 1997.
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- 21. Manokas T, Fromkes JJ and U Sundaram. "Effect of Chronic Inflammation on Ileal Short Chain Fatty Acid: Bicarbonate Exchange." **Gastroenterology**, 114:G1282, 1998.

- 22. Coon S, Wisel S, West AB and U Sundaram. "Effect of Corticosteroids on Na-Glucose co-Transport Inhibition in the Chronically Inflamed Rabbit Ileum." Gastroenterology, 114:G4010, 1998.
- 23. Hua M, Wisel S and U Sundaram. "Glucocorticoid Mediated Reversal of Na-Amino co-Transport Inhibition During Chronic Ileitis." **Gastroenterology**, 116:G4069, 1999.
- 24. Coon S and U Sundaram. "Mechanism of Glucocorticoid Mediated Reversal of Na-Cl Absorption Inhibition During Chronic Ileitis." **Gastroenterology**, 116:G4067, 1999.
- 25. Haller D, Fromkes J, Tse CM and U Sundaram. "Effect of Chronic Inflammation in Ileal Na-Nucleoside co-Transport." **Gastroenterology**, 116:G4068, 1999.
- 26. Kim J, Fromkes J and U Sundaram. "Regulation of Na-Nutrient co-Transport Processor by Constitutive Nitric Oxide in the Rabbit Ileum." **Gastroenterology**, 116:G2541, 1999.
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- 28. Coon S and U Sundaram. "Regulation of Proton:Dipeptide co-Transport by Glucocorticoids During Chronic Enteritis." **Gastroenterology**, 118:G3122, 2000.
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- 30. Christofi FL, Suntres Z, Jay U and U Sundaram. "Chronic Ileal Inflammation Leads to Transmural Changes in the iNOS-NO Signaling Pathway." Gastroenterology, 118:G874, 2000.
- 31. Coon S and U Sundaram. "Mast Cell Membrane Stabilization Uniquely Regulates Anion Exchangers During Chronic Enteritis." **Gastroenterology**, 118:G4274, 2000.
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- Coon S and U Sundaram. "Constitutive Nitric Oxide Uniquely Regulates Mammalian Small Intestinal Brush Border Membrane Anion:HCO3 Exchangers." Gastroenterlogy, 122:W953, 2002.

- 35. Varanasi S, Coon S and U Sundaram. "Mast Cell Membrane Stabilization Alleviated the Inhibition of Na-Amino Co-Transport in the Chronically Inflamed Intestine." **Gastroenterlogy**, 122:W952, 2002.
- 36. Qutob T, Goldstein J, Shah A and U Sundaram. "Hemosidersosis of Terminal Ileum Mucosa; A Rare Finding Found to be Associated with Hereditary Hemochromatosis." **The American Journal of Gastroenterology,** v97, 2002.
- 37. Qutob T, Shah A, Goldstein J and U Sundaram. "Pancreatic Pseudoaneurysm Penetrating into the Stomach and Hemosuccus Pancreaticus; Rare Causes of Massive Gastrointestinal Hemorrhage." **The American Journal of Gastroenterlogy**, v97, 2002.
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- 40. Basavappa S, Coon S and U Sundaram. "Choride Transport in the Small Intestine Cell Line IEC-18. **Gastroenterology**, 124, 2003.
- 41. Coon S, Kim J and U Sundaram. "Inhibition of Inducible Nitric Oxide Production Reverses the Inhibition of Na-Glucose Co-transport in the Chronically Inflamed Rabbit Intestine." **Gastroenterology**, 124, 2003.
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- 43. Mantry P and U Sundaram. "Antineutrophil Cytoplasmic Autoantibodies in Patients with Chronic Hepatitis C." **Gastroenterology**, 124, 2003.
- 44. Mayes T, Mantry P and U Sundaram. "Utility of MRCP as a Pre-operative test in patients Undergoing Liver Transplantation." **Gastroenterology**, 124, 2003.
- 45. Mayes T, Mantry P and U Sundaram. "Adult Living Donor Liver Transplantation: Donor Characteristics and Outcomes." **Gastroenterology**, 124, 2003.
- Mendler L, Mantry P and U Sundaram. "Correlation Between Endoscopic and Histologic Findings in Patients With Upper Gastrointestinal Tract Symptoms." Am. J. Gastro, 98, 2003.
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- 49. Robillard K, Ullah A, and U Sundaram. "Hepatic Intra-Arterial Chemotherapy and Upper GI Ulcerations: The Necessity of Early Endoscopy." **Am. J. Gastro**, 98, 2003.
- 50. Robillard K, DeCross A, Ryan C, Elias K and U Sundaram. "A Case of Gastric Xanthelasma." **Am. J. Gastro**, 98, 2003.
- 51. Gootzeit B, Mantry,P, and U Sundaram. "Weight Loss and Anemia Caused by Bacterial Overgrowth in a Large Jejunal Diverticulum." **Am. J. Gastro**, 98, 2003.
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- 53. Gootzeit B, Mantry P and U Sundaram. "Rapid Fulminant Liver Failure After Anal Exposure to Genital Herpes: A Case Report." **Am. J. Gastro**, 98, 2003.
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- 56. Coon S, Baird M, Wisel S, Fromkes J and U Sundaram. "Inhibition of Na-Amino Acid co-transport in the Chronically Inflamed Rabbit Intestine is Mediated by Arachidonic Acid Metabolites." **Gastroenterology**, 126, 2004.
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- 58. Coon S and U Sundaram. "Inducible nitric oxide uniquely regulates villus cell anion/HCO3 exchangers in the chronically inflamed rabbit intestine." **Gastroenterology**, 128, 2005.
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- 62. Mechanisms of Inhibition of Na-Glucose Co-Transport By Prostaglandin E2 in Intestinal Epithelial Cells. Talukder J, Kekuda R, Saha P, Sundaram U. **Gastroenterology** 132(4):A42, No 4, Supple 2, 2007.
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