

CURRICULUM VITAE

May 2021

1. Name: Saul J. Karpen, M.D., Ph.D.
2. Office Address: Emory University
Division of Pediatric Gastroenterology, Hepatology and Nutrition
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3. E-Mail Address: skarpen@emory.edu
4. Citizenship: United States Citizen
5. Current Titles and Affiliations:
 - a. Academic Appointments:
 1. Primary appointments:

Raymond F. Schinazi Distinguished Biomedical Chair
Professor of Pediatrics
Division of Pediatric Gastroenterology, Hepatology & Nutrition
Emory University School of Medicine
February 2012 – Present

Professor of Pediatrics
Division of Pediatric Gastroenterology, Hepatology & Nutrition
Emory University School of Medicine
February 2012 – Present

Graduate Faculty
Graduate Division of Biological and Biomedical Sciences
Genetics and Molecular Biology Program
Emory University School of Medicine
January 2019 – present
 2. Clinical appointments:

Division Director
Division of Pediatric Gastroenterology, Hepatology & Nutrition
Emory University School of Medicine/Children'
August 2011 – Present

6. Previous Academic and Professional Appointments:

Acting Professor of Pediatrics
Division of Pediatric Gastroenterology, Hepatology & Nutrition
Emory University School of Medicine
August 2011 – February 2012

Professor of Pediatrics
Division of Gastroenterology, Hepatology & Nutrition
Baylor College of Medicine
2009 – 2011

Professor of Molecular & Cellular Biology
Baylor College of Medicine
2009 – 2011

Faculty, Translational Biology & Molecular Medicine Program
Baylor College of Medicine
2005 – 2011

Associate Professor of Pediatrics
Division of Gastroenterology, Hepatology & Nutrition
Baylor College of Medicine
2000 – 2009

Associate Professor of Molecular & Cellular Biology
Baylor College of Medicine
2000 – 2009

Assistant Professor of Pediatrics
Yale University School of Medicine
1995 – 2000

Instructor in Pediatrics
Yale University School of Medicine,
1994 – 1995

7. Previous Administrative and/or Clinical Appointments:

Director, Texas Children's Liver Center (Inaugural Director)
Texas Children's Hospital
2000 – 2011

Medical Director, Liver Transplant Program
Texas Children's Hospital
2000 – 2011

8. Licensures/Boards:

Georgia Issued 2011
Texas Issued 2000
Connecticut Issued 1991

9. Specialty Boards:

American Board of Pediatrics – 1995 - 056309
American Pediatrics Board Gastroenterology – 1999 (valid through 2022) - 623
Transplant Hepatology CAQ – 2006 (valid through 2022) - 15

10. Education:

1978 - 1982 B.S.E. (cum laude), University of Pennsylvania
1982 - 1987 Ph.D. (MSTP), Mount Sinai School of Medicine
1982 - 1989 M.D. (MSTP), Mount Sinai School of Medicine

11. Postgraduate Training:

Residency in Pediatrics (Fast Track), Yale University
New Haven Hospital, New Haven, CT, 1989 – 1991

Fellowship, Pediatric Gastroenterology/Hepatology, Yale University
New Haven Hospital, New Haven, CT, 1991 - 1994

12. Committee Memberships:

a. National and International:

Pediatric Hepatobiliary Section, FDA Orphan Drug Products, 1997

Abstract Reviewer, American Gastroenterological Association Digestive Disease
Week (DDW), Growth, Development, and Nutrition Section, 1998

American Association for the Study of Liver Disease, Member, Basic Research Committee,
2000-2005

AASLD, Basic Research Committee 2001-2004, Chair 2005-2007

North American Society of Pediatric Gastroenterology, Hepatology and Nutrition,
Hepatology Committee, 2001-2005

Abstract Reviewer, American Gastroenterological Association Digestive Disease Week
(DDW), Intestinal Gene Expression, 2002

Abstract Reviewer, American Association for the Study of Liver Diseases (AASLD) Cell and Molecular Biology Review Committee (Chair), 2002-2005

American Association for the Study of Liver Disease, Chair, Basic Research Committee, 2003-2005

American Association for the Study of Liver Disease, Scientific Program Committee, 2003-2005

North American Society of Pediatric Gastroenterology, Hepatology and Nutrition, Chair, Hepatology Committee, 2003-2005

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Experienced Reviewer Reserve, 2003-present

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK),
Hepatobiliary Pathophysiology (HBPP) Study Section Ad hoc Reviewer, 2003-present

The National Institute of Health (NIH) Working Group for Pediatric Liver Disease, NIH
Action Plan for Liver Disease Research, 2004-2005

AASLD, Strategic Planning Retreat, 2005

AASLD, National Institute of Health Liaison Task Force, 2005

The National Center for Research Resources/NIH/COBRE 3, Study Section, 2005

NASPGHAN, Hepatology Committee, Chair 2005-2007

Steering Committee, Biliary Atresia Research Consortium (BARC), 2005-2009

Steering Committee, Cholestatic Liver Disease Consortium (CLiC), 2005-2009

Abstract Reviewer, AASLD, Pediatric Liver Disease, 2005-2010

Steering Committee, Pediatric Acute Liver Failure Study Group (PALF), 2005-2011

Liver Failure Definitions Committee, PALF, 2005-2011

Publications Committee, Studies of Pediatric Liver Transplantation (SPLIT), 2005-2011

American Association for the Study of Liver Disease, Surgery and Liver Transplantation
Committee, 2007-2009

AASLD, Inaugural Chair, Pediatric Liver Disease Special Interest Group, 2007-2011

Senior Steering Committee, Pediatric Acute Liver Failure Study Group (PALF), 2007-2011

American Association for the Study of Liver Disease, Nominating Committee, 2008

Chair, Scientific Advisory Committee, Pediatric Intestinal Failure Consortium (PIFCon), 2008-2010

ABIM/ABP Test and Policy Committee on Transplant Hepatology 2008-2013

American Board of Pediatrics/American Board Internal Medicine, Transplant Hepatology Examination Committee, 2008-2014

Member, Data Safety Monitoring Board (DSMB), The Studies of Primary Sclerosing Cholangitis (STOPSC) Consortium, 2009-2011

Executive Committee, The Childhood Liver Disease Research and Education Network (ChiLDReN), 2009-2019

AASLD, Cholestasis Special Interest Group, Chair (Elected) 2011-2014

AASLD, Scientific Program Committee, 2014-2016

NIDDK, ChiLDReN Steering Committee, 2014-present

NIDDK, Executive Committee, NASH CRN, 2014-present

NIDDK Liver Branch, Internal Program Reviewer, 2015

Member, University of California San Francisco (UCSF) Liver Center External Advisory Board, 2015-present

NIDDK Board of Scientific Counselors Ad Hoc Reviewer, Sept 9-11, 2015

AGA Research Awards Executive Group (RAEG), 2015-2020

AGA Institute Research Awards Panel, 2017-2020

AGA Pilot Awards Review Panel 2018-2020

NIDDK, Review Committee ZDK1 GRB-T (J1), 2019

AASLD, Nominating Committee, 2019-2020

Vice Chair & Executive Committee, NIDDK, ChiLDReN Steering Committee, 2009-2019

Co-Chair, International Liver Forum's Pediatric Cholestatic Disease Working Group 2020-present

AASLD Councilor and member of the AASLD Governing Board, 2022-2027 (President 2026)

b. Regional and State:

UNOS Representative, Region 4 Liver Transplant Board 2003-2011

c. Institutional:

Associate Director, Yale Liver Center/Molecular Core, 1999-2000

Fellowship Committee, Department of Pediatrics, Division Gastroenterology, Hepatology and Nutrition, Baylor College of Medicine, 2000-2011

Scholarship Oversight Committee for Jee-Young Ham, MD, Baylor College of Medicine, Endocrinology 2000-2011

General Clinical Research Center Scientific Advisory Committee, Department of Pediatrics, Baylor College of Medicine, 2001-2011

Faculty Member, M.D./PhD. Program Faculty Operating Committee, Baylor College of Medicine, 2001-2011

MSTP Program, Faculty Operating Committee, Baylor College of Medicine, 2001-2011

Fellows Day Committee, Department of Pediatrics, Baylor College of Medicine, 2001-2011

Chairman, Fellows Day Committee, Department of Pediatrics, Baylor College of Medicine, 2003-2004

Information Management Research Subcommittee, Texas Children's Hospital, 2004-2010

Faculty Advisor for Jennifer Jetton, M.D., Pediatric Resident, Baylor College of Medicine, 2004-2011

Faculty Member, Translational Biology and Molecular Medicine, Executive Committee, Baylor College of Medicine, 2005-2011

Scholarship Oversight Committee for Valerie McLin, MD, Baylor College of Medicine, Pediatrics, GHN 2005

Scholarship Oversight Committee for Paula Hertel, MD, Baylor College of Medicine, Pediatrics, GHN 2006

Organizer, Translational Biology & Molecular Medicine Program Six-Part Seminar Series on "Liver Biology & Pathobiology", Baylor College of Medicine, 2007

Scholarship Oversight Committee for Mohan P. Venkatesh, MD, Baylor College of Medicine, Neonatology, 2007-2010

Thesis Advisor, Rebecca Schneider Aguirre, MD, PhD Student, Department of Molecular & Cellular Biology, Baylor College of Medicine, 2007-2012

Faculty Mentor for Moreshwar Desai, MD, Assistant Professor, Baylor College of Medicine, Pediatrics, Section of Critical Care, "Effects of circulating bile acids on growth and energy expenditure", National K12 Application awarded 2010-2012.

Member, Faculty Advisory Group, Texas Children's Hospital Research Seminar Series, 2008-2011

Member, Division Leadership Council (DLC) Emory Pediatrics 2011-present

Member, Research Advisory Council (RAC) Emory Pediatrics 2011-present

Member, Atlanta Pediatric Scholars Program (APSP) K12 Executive Committee Emory Pediatrics 2013-present

Member, Physician Advisory Council (PAC) CHOA 2013-2015

Member, Clinical Research Task Force CHOA & Emory University, 2013-present

Member, Clinical Trials Advisory Council (CTAC) Emory University, Pediatrics 2015-present

Member, External Advisory Board, Doctoral Program in Nutrition Health Sciences (NHS), Emory University, 2015-present

Member, American Gastroenterological Association (AGA) Research Awards Executive Group, Emory University, 2015-2020

Member, Department of Pediatrics Space Committee, 2015-present

Member, School of Medicine Dean Search Committee, 2017

Member, Division of Digestive Disease Director Search Committee 2018-2019

Member, Pediatric Resident Research Advisory Board 2019-present

13. Consultantships:

Medical Consultant, ABC television, “The Practice”, 2001
 Medical Contact in the United States for *The Wilson Disease Association International*, 2002-2010
 Intercept Pharmaceuticals (Bile acid based therapeutics) 2014-Present
 Retrophin (Gene Diagnostics for cholestasis) 2015-present
 Alberio Pharma (Bile acid based therapeutics) 2016-present
 Mirum Pharmaceuticals (Bile acid based therapeutics) 2018-present

14. Editorships and Editorial Boards:

Hepatology, 2001-2006, 2011-2020
 Hepatology, Associate Editor, 2006-2011
 Gastroenterology, *Selected Summaries*, 1999-2003
 Journal of Hepatology, 2005-present
 Mount Sinai Journal of Medicine, 2008-2010
 Seminars in Liver Disease Journal, Associate Editor, 2021-2024

15. Manuscript reviewer:

American Journal of Physiology-GI	2003-
Blood	2005-
Canadian Journal of Gastroenterology	2006-
Clinical Gastroenterology and Hepatology	2008-
Gastroenterology	1998-
Gene	1996-
Gut	2010-
Hepatology	1995-
Journal of Biological Chemistry	1998-
Journal of Clinical Gastroenterology	2005-
Journal of Clinical Investigation	2000-
Journal of Hepatology	1999-
Journal of Pediatric Gastro, Hepatology & Nutrition	1998-
Journal of Pediatrics	1998-
Laboratory Investigation	1999-
Liver International	2004-
Liver Transplantation	2004-
Nature Reviews	2017-
New England Journal of Medicine	2005-
Pediatric Research	2001-
Pediatrics	1999-
PLOS One	2009-
World Journal of Gastroenterology	2007-

16. Honors and Awards:
- Tau Beta Pi (National Engineering Honor Society), University of Pennsylvania, 1981
 - Alpha Omega Alpha, Mount Sinai School of Medicine, 1988
 - Henry R. Rappaport Prize in Research, Pediatrics, Yale University School of Medicine, 1989
 - American Liver Foundation Postdoctoral Fellowship Award, 1992-1993
 - Howard A. Pearson, M.D. Pediatric Faculty Teaching Award, Yale University School of Medicine, 1999
 - The First Yale Junior Faculty Research Award, Yale University School of Medicine, 1999
 - Physician of the Year, American Liver Foundation South Texas Chapter, 2006
 - Houston's TOP Doctors for Kids, 2006
 - Texas Super Doctors, 2008-2011
 - William F. Balistreri Lectureship, Cincinnati Children's Medical Center, 2013
 - Joseph Fitzgerald Lectureship, Riley Children's Hospital/Indiana University 2015
 - Mayo Clinic Transplant Lecture, 2018
 - Ted Engle Lectureship, Cleveland Clinic, 2018
 - Million Dollar Club! Emory University School of Medicine Department of Pediatrics faculty with at least \$1M in funding for either the Emory or NIH fiscal year 2020
17. Society Memberships:
- American Association for the Study of Liver Disease (AASLD), 1991-present
 - American Gastroenterological Association (AGA), 1993-present
 - North American Society of Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN), 1997-present
 - European Association for the Study of the Liver Disease (EASL) 2010-present
 - American Academy of Pediatrics (AAP) 2018-present
18. Organization of National or International Conferences:
- a. Administrative positions:
- Co-Organizer (with David J. Mangelsdorf, PhD), American Association for the Study of Liver Diseases (AASLD) Single Topic Conference, Nuclear Receptor Regulation of Hepatobiliary Function, May 29-June 1, 2003, Warrenton, VA, 2003
 - Thesis Co-promoter, Ekkehard Sturm, PhD candidate in Pediatric Gastroenterology and Hepatology, Academic Hospital Groningen, Groningen, Netherlands, 2000-2003
 - Co-Organizer/Moderator/Speaker, Clinical Symposia, American Gastroenterological Association Digestive Disease Week, New Orleans, LA, 2004
 - Organizer, American Liver Foundation Biliary Atresia Research Update and Reception, Houston, TX, 2004
 - Co-Organizer, American Association for the Study of Liver Disease (AASLD) Annual Meeting, Focused Study Group, "Nuclear Receptors & Liver: Integration of Biology and

Pharmacology in the Discovery of New Therapeutic Targets for Liver Disease”, Boston, MA, 2006

Co-organizer, NIH, NIDDK Workshop on Nuclear Receptors in Liver & Digestive Disease, 2007 Bethesda, MD

Co-Organizer/Invited Speaker, Joint EASL-AASLD Conference: Nuclear Receptors and Liver Disease, Vienna, Austria, February 27- March 1, 2009

Organizer, NIH, NIDDK Workshop on Bile Acid-mediated Integration of Metabolism and Liver Disease: Translational Science and Therapeutic Engagement, Bethesda, MD, June 8, 2012

Organizer, 1st Alpard Lecture, Emory University School of Medicine, Atlanta, GA, December 3-4, 2013

Co-Organizer, 2nd Annual Joseph H. Moss Visiting Professorship Lecture Series, Emory University School of Medicine, Atlanta, GA, November 1- 3, 2016

Organizer, Metabolic Health Lecture Series, Emory University School of Medicine, Atlanta, GA, February 6 – 10, 2017

b. Sessions as Chair:

Workshop Chairman, “Bile Formation and Cholestasis”, American Association for the Study of Liver Disease, Dallas, TX, 2000

Workshop Chairman, “Neonatal Cholestasis Disorders”, American Association for the Study of Liver Disease, Dallas, TX, 2000

Co-Chairman, Meet-the-Professor Breakfast Session, “Nuclear receptors and regulation of bile secretion”, World Congress of Pediatric Gastroenterology, Hepatology and Nutrition, Paris, France, 2004

Chair, “The Neonate Meets the Microbiome” Pediatric Academic Society (PAS) Annual Meeting, Boston, MA, April 2012

Chair, “The Kidney in Multi-Organ System Disease” Pediatric Academic Society (PAS) Annual Meeting, Boston, MA, April 2012

Organizer, the National Institute of Diabetes & Digestive & Kidney Diseases’ (NIDDK) workshop on “Bile Acid-mediated Integration of Metabolism and Liver Disease: Translational Science and Therapeutic Engagement”, at Lister Hill on the NIH Campus, in Bethesda, MD, June 8, 2012

Moderator, Meet the Professor Breakfast, 2013 North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN) Annual Meeting and Postgraduate Course, “*Genetic testing for children with liver diseases*”, October 12, 2013

Session Chair, 64th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), The Liver Meeting 2013, “Parallel 23: Cholesterol and Bile Acid Metabolism, Washington, DC, November 4, 2013

Co-Organizer, Genetic Testing and the Future of Pediatric Gastroenterology: *Practical Insights for Clinicians & Researchers*, Atlanta, GA, October 22, 2014

Session Chair, Meet the Professor Breakfast, NASPGHAN Annual Meeting, Atlanta, GA, October 23, 2014

Course Moderator, Postgraduate Course, AASLD The Liver Meeting 2014, Boston, MA, November 7-11, 2014

Co-Organizer, “Advancement in Child Health: A Symposium and Celebration honoring Barbara J. Stoll's First 10 Years as Chair of the Department of Pediatrics,” Emory University, March 20, 2015

Moderator: “STOPNASH: Symposium on The Origins and Pathways of Nonalcoholic Steatohepatitis” NASPGHAN Annual Meeting, October 7, 2015, Washington, DC

Co-Moderator, Plenary Session on “New Therapies in PSC”, International Primary Sclerosing Cholangitis Study Group (IPSCSG) Workshop, Yale Liver Center, June 27, 2016, New Haven, CT.

Moderator, Session: Bile Acid Transporters – Increasing Role in Liver Disease, AASLD The Liver Meeting, Boston, MA, November 11-15, 2016

Moderator, Session: New Genetic Causes of Cholestasis – Meet The Professor Luncheon, AASLD The Liver Meeting, Washington, DC, October 21, 2017

Moderator, Session: Pediatric Cholestasis – Basic and Clinical, AASLD The Liver Meeting, Boston, MA, November 11, 2018

Co-Chair, Session: Parallel Session: Hepatology 1, ESPGHAN 51st Annual Meeting 2019, June 7, 2019, Glasgow

Chaired Session: Potential Therapeutic Roles for IBAT Inhibitors in Cholestatic and Metabolic Liver Diseases. AASLD, The Liver Meeting Digital Experience™, virtually due to COVID-19, November 2020

19. Research focus:

The focus of my laboratory is to provide an understanding of the molecular mechanisms of cholestasis, with the goal of discovering novel molecular targets to treat cholestatic liver disease. My overall goals are to develop integrative programs to improve children's lives through research, discovery of rational therapeutic targets, and the development of safe and effective pharmaceuticals—all focused upon the unique and pressing needs of infants and children with liver diseases. I have a strong research interest in nuclear receptors and bile acid pathways as means to address the root causes and targets for cholestatic diseases. My research and clinical foci on biliary atresia (BA), the principal liver disease of infancy, is one to address the crucial unmet needs for this disease which is plagued by little progress in understanding its etiologies or exploring potential therapeutics. Two BA research arcs are aimed along these lines: 1.) genetic etiologies, of which we have discovered, and are validating, the first plausible gene for BA patients, *PKDILI*; and 2.) as lead of an international randomized placebo-controlled Phase 3 study of an ileal bile acid uptake inhibitor (NCT04336722) in BA. On a national and international basis, I am engaged in the leadership of the Liver Forum's Pediatric Cholestatic Disease Working Group and two NIDDK-supported consortia for liver disease: ChiLDReN and NASH CRN.

20. Grant Support:

a. Active Support:

1. Federally funded:

U01 DK062470-17	Karpen (PI)	03/07/2005-05/31/2024
NIH/NIDDK	\$681,981 (Direct)	
<i>The Childhood Liver Disease Research and Education Network (ChiLDReN)</i>		
The goals are to determine the causes and contributors to the liver disease in cholestatic disorders of children including Biliary Atresia, Alagille Syndrome, A1AT deficiency, PFICs1-3, and others.		
Role: Principal Investigator		

U01 DK062470-16S1	Karpen (PI)	09/21/2019-05/31/2020
NIH/NIDDK	\$576,923 (Direct)	
<i>The Childhood Liver Disease Research and Education Network (ChiLDReN)</i>		
The goals of this Supplement are to provide additional sequencing of informative ChiLDReN participants with Biliary atresia (BA) and the BA Splenic Malformation syndrome, along with developing resources to determine underlying molecular and cellular mechanisms.		
Role: Principal Investigator		

U01DK061731 Sanyal (PI) 05/01/2012-04/30/2024
 NIH/NIDDK \$77,241 (Direct)
Nonalcoholic Steatohepatitis Clinical Research Network (NASH CRN)
 Subcontract with Virginia Commonwealth University

The goal of this network is to understand and identify effective therapies for NASH in both children and adults.

Specific Aims: To determine the associations of readily available demographic, clinical, and laboratory variables with the diagnosis of NASH and its key histological features and determine the ability of these variables to predict the severity of NAFLD.

Role: Co-Investigator (Dr. Miriam Vos is site PI)

Recently completed support:

Study LUM001-305 Karpen (PI) 06/02/2016-6/02/2020
 Lumena Pharmaceuticals
A Multicenter Extension Study to Evaluate the Long-Term Safety and Durability of the Therapeutic Effect of LUM001, an Apical Sodium-Dependent Bile Acid Transporter Inhibitor (ASBTi), in the Treatment of Cholestatic Liver Disease

The goal of this study (IMAGINE-II: NCT02117713) is to continue to explore the role for ASBT inhibition in the treatment of select inherited pediatric cholestatic liver diseases.

Specific Aims: Evaluate the long-term safety and tolerability of LUM001 in pediatric subjects with ALGS.

Role: Site Principal Investigator

2. Private foundation funded:

P.I., Hunter Heitzman Endowment, Baylor College of Medicine, 2000-2011
 P.I., Alpard Liver Education & Research, 2006-present
 P.I., Spain Liver Fund, 2007-present
 P.I., Bauer Foundation, Research Grant, 2009-2011
 P.I. Sydney Moss Fund for Biliary Atresia Research, 2011-present \$25,000
 P.I., Meredith Brown Fund, 2017-present \$40,000
 P.I., Carlos and Marguerite Mason Trust 01/01/2020-12/31/2022 \$450,000
 P.I., Cholestasis Funding (Private Donor, Emory) 01/01/2020-present \$200,000

3. Contracts

P.I., Cystic Fibrosis Foundation (NIH/NIDDK), Cystic Fibrosis Liver Disease, U01, \$120,252, 2008-2011

P.I., NIH/NIDDK, Acute Liver Failure in Children (PALF), 2010-2015, \$254,695

PI: PEDFIC 1 (Karpen) 08/22/2018 - 08/21//2028
 Albireo/ICON Clinical Research \$13,253
A4250-005 Albireo: A Double-Blind Randomized, Placebo-Controlled Phase 3 Study of an IBAT inhibitor in PFIC (NCT03566238)

BOLD (Karpen) 08/14/2020-
 Albireo/Syneos (A4250-011)
A Double-Blind, Randomized, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Odevixibat (A4250) in Children with Biliary Atresia Who Have Undergone a Kasai Hepatportoenterostomy (BOLD: NCT 04336722)
 An international, randomized, placebo-controlled, Phase 3 study of a lumenally-acting inhibitor of ileal bile acid transport administered within 3 weeks of Kasai Portoenterostomy, with a primary outcome measure of improvement in Survival with Native liver after 2 years of therapy. Expected enrollment, 200.
 Role: Site and Study Lead PI

b. Previous Support:

P.I., AGA, Industry Research Scholar Award, (declined; K08 awarded), \$150,000, 1993

P.I., NIH/NIDDK, Transcriptional Regulation of Bile Acid Transport, K08, 1994-1999, \$453,750 / \$489,650

P.I., Yale Child Health Research Center Grant, \$20,000, 1995-1998

P.I., Yale Liver Center Pilot Project Grant, \$20,000, 1996-1998

P.I., Charles H. Hood Foundation Grant, \$50,000, 1998-1999

P.I., NIH/NIDDK, Molecular Regulation of Hepatic Transporters, R01, 1999-2005, \$1,250,000

P.I., Pediatric Liver Fund, Baylor College of Medicine, Private Philanthropic contributions, \$42,099, 2001-2010

P.I., Spain Pediatric Liver Fund, Baylor College of Medicine Private Philanthropic contributions, \$62,182, 2001-2010

P.I., NIH/NIDDK, Studies of Pediatric Liver Transplantation (SPLIT), U01, \$75,000, 2004-2009,

P.I., NIH/NIDDK, Biliary Atresia Research Consortium (BARC) and Cholestatic Liver Disease in Children (CLiC), U01, \$803,818, 2005-2009

P.I., NIH/NIDDK, Acute Liver Failure in Children (PALF), U01 (subcontract), \$70,860, 2005-2010

P.I., NIH/NIDDK, Functional Outcomes in Pediatric Liver Transplantation, U01 (subcontract), \$48,750, 2005-2010

Co-I, NIH/NIDDK, Treatment of Non-alcoholic Steatohepatitis in Children, U01 (subcontract), \$294,000, 2007-2009

P.I., NIH/NIDDK, Molecular Regulation of Hepatic Transporters, R01, \$1,000,000, 2006-2011

P.I., Associate Core Director, NIH/NIDDK, Digestive Disease Center, Texas Gulf Coast Center for Gastrointestinal Development, Infection, & Injury, P30, \$550,000, 2007-2012

P.I., National Institute of Health/NIDDK, Genome-Wide Analysis of RXR Binding In Mouse Liver Chromatin with ChIP-SEQ, RC1, \$578,038, 2009-2011

P.I., NIH/NIDDK, Continuation, Expansion And Merging Of The Biliary Atresia Research Consortium (Barc) And The Cholestatic Liver Consortium (Clic) To Form The Childhood Liver Disease Research And Education Network (ChiLDReN), U01, \$1,204,822, 2009-2014

P.I., NIH/NIDDK, Immunosuppression Withdrawal for Stable Pediatric Liver Transplant Recipients, U34 (subcontract), \$7,609, 2010-2011

P.I., NIH/NIDDK, The Childhood Liver Disease Research And Education Network (ChiLDReN), U01 (supplement), \$149,952, 2010-2012

PI & Co-I, NIH/NIDDK, A Multi-Center Group to Study Acute Liver Failure in Children (PALF) (subcontract), 09/30/10-08/31/15

PI, NIH/NIDDK Molecular Regulation of Hepatic Transporters R01, \$464,301, 09/01/99-06/30/2019

Arbor Research Collaborative for Health, ChiLDReN: Childhood Liver Disease Research Network FORCE Protocol, V1.1. \$20,648, 06/01/16 – 05/31/2019

22. Formal Teaching:

a. Graduate Program

Department of Molecular Physiology and Biophysics, “Transforming blood into bile: Roles and regulation of hepatic transporters”, Baylor College of Medicine, Houston, TX, April 24, 2001

Translational Biology and Molecular Medicine Program, Bench to Bedside Seminar Series, "Liver and the Acute Phase Response", Baylor College of Medicine, January 5, 2007

Neonatology Pathophysiology Conference, "Neonatal Cholestasis", Baylor College of Medicine, Houston, TX, March 14, 2007

Translational Biology and Molecular Medicine Program, Bench to Bedside Seminar Series, "Bile Acids as Therapeutics for Cholestatic, Inflammatory & Fatty Liver Diseases", Baylor College of Medicine, Houston, TX, January 8, 2010

Department of Molecular Physiology & Biophysics, Human Physiology II, "Anatomy and Role of the Liver", Baylor College of Medicine, Houston, TX, February 19, 2010

Department of Molecular Physiology & Biophysics, Human Physiology II, "Metabolism and Detoxification in the Liver", Baylor College of Medicine, Houston, TX February 19, 2010

Translational Biology and Molecular Medicine Program, Pathophysiology and Mechanisms of Human Disease, "The Liver and The Acute Phase Response", Baylor College of Medicine, Houston, TX, April 27, 2010

Translational Biology and Molecular Medicine Program, Pathophysiology and Mechanisms of Human Disease, "Anatomy", Baylor College of Medicine, Houston, TX, February 18, 2011

Translational Biology and Molecular Medicine Program, Pathophysiology and Mechanisms of Human Disease, "Metabolism and Detoxification", Baylor College of Medicine, Houston, TX, February 18, 2011

Translational Biology and Molecular Medicine Program, Pathophysiology and Mechanisms of Human Disease, "The Liver and The Acute Phase Response", Baylor College of Medicine, Houston, TX, May 3, 2011

23. Supervisory Teaching:

a. Ph.D. / Pre-doctoral students directly supervised

Rebecca Schneider Aguirre (MD-PhD Student) 2007-2012
 Bryan Tackett (PhD student) 2009-2014
 Gina Ramirez (MD student) 2015
 Janielle P Maynard (PhD student) 2010-2016
 Anya Mezina (MSCr-MD Student) 2013-2015
 Shannon Moyer (MD student) 2019-present

b. Post-doctoral fellows directly supervised

H. Robin Lee, M.D.	1995-1997	Yale University School of Medicine
Lee A. (Ted) Denson, M.D.	1996-1999	Cincinnati Children's Hospital
Wihelma Echevarria, M.D.	1998-2000	University of Puerto Rico
Duo Li, M.D., PhD	2000-2002	Beijing, China
Beth A Carter, M.D.	2000-2003	Baylor College of Medicine
David A. Horst, M.D.	2000-2003	Baylor College of Medicine
Samir Awad, M.D.	2001-2005	Baylor College of Medicine
Amethyst Kurbegov, M.D.	2002-2004	The Children's Hospital, Denver
Bobby L. Miller, Jr, M.D.	2003-2005	Marshall University
Jaap Mulder, M.D.	2003-2004	Groningen, The Netherlands
Romi Ghose, Ph.D.	2003-2004	University of Houston
Astrid Kosters, Ph.D.	2005-2011	Baylor College of Medicine
Moreshwar S. Desai, MD	2007-2011	Baylor College of Medicine
Sanjiv Harpavat, MD, Ph.D.	2008-2012	Baylor College of Medicine
Alvin Jay Freeman, MD	2011-2014	Emory University School of Medicine
Barbara McElhanon, MD	2011-2014	Emory University School of Medicine
Jamie Mells, Ph.D.	2012-2014	Emory University School of Medicine
Hong Tang, Ph.D.	2012-2014	Emory University School of Medicine
Angelica Amanso, PhD	2014-2017	Emory University School of Medicine
John-Paul Berauer (Fellow)	2015-2018	Emory University School of Medicine
Jhavene Morrison, MD (Fellow)	2018-present	Emory University School of Medicine

c. Residency Program

GI/Hepatology Residents - Approximately three hours per week in clinic and didactic lectures, 2000-present

d. Thesis Committees

Thesis Committee Member, Nancy Urizar, PhD candidate in Molecular & Cellular Biology (David Moore, PhD, Advisor), Baylor College of Medicine, 2000-2003

Thesis Committee Member, Mo Qatani, PhD candidate in Molecular & Cellular Biology (David Moore, PhD, Advisor), Baylor College of Medicine, 2001-2005

Thesis Committee Member, Jun Zhang, PhD candidate in Molecular & Cellular Biology (David Moore, PhD, Advisor), Baylor College of Medicine, 2001-2004

Thesis Committee Member, Rui Xiao, PhD candidate in Molecular & Cellular Biology (David Moore, PhD, Advisor), Baylor College of Medicine, 2006-2011

Member, Oral Qual Committee, Janise Kuehner, PhD candidate, Genetics and Molecular Biology Program. Advisor Dr. Bing Yao, Emory University School of Medicine 2019

24. Lectureships, Seminar Invitations, and Visiting Professorships:

Bowman-Gray School of Medicine, "*Regulation of the rat liver ntcp gene promoter*", Wake Forest, NC, 1996

Albert Einstein School of Medicine, "*Molecular mechanisms of sepsis-associated cholestasis*", New York, NY, 1998

University of Illinois at Chicago School of Medicine, "*Molecular mechanisms of sepsis-associated cholestasis*", Chicago, IL, November 1998

Pediatric Grand Rounds, Yale University School of Medicine, "*Viral hepatitis in children: The new ABCs*", New Haven, CT, December 1998

X-CEPT Therapeutics, "*FXR and the hepatic adaptation to cholestasis*", San Diego, CA, February 10, 2003

Department of Internal Medicine/Division of Gastroenterology, Hepatology & Nutrition Visiting Professor Conference, University of Texas Health Science Center at Houston Medical School, Visiting Professor, "*Molecular mechanisms of sepsis-associated cholestasis: relevance for pediatric liver diseases*", Houston, TX, 2003

Health Promotion Event on Organ Transplantation, Panel Member, "*Baylor College of Medicine, Stories of trauma and triumph*", Houston, Texas, May 27, 2004

Christian Medical College, Invited Speaker, "*Neonatal Cholestasis*", Vellore India, 2005

Children's Hospital of Oakland, "*Neonatal hemochromatosis*", Oakland, CA November 11, 2005

University of Texas Medical Branch, MD-PhD Program Seminar Series, Galveston, Texas, 2006

Mt. Sinai School of Medicine, "*Crosstalk between cell signaling and nuclear receptors in the inflamed liver*", New York, NY, April 24, 2006

University of Pittsburgh Intestinal Failure Conference, "*TPN-associated Cholestasis*", Pittsburgh, PA, June 2, 2006

Grand Rounds, "*Neonatal Cholestasis: Evaluation, Diagnosis, Treatment*", Greenville, SC, June 9, 2006

Department of Pediatric Medicine Education Grand Rounds, Mt. Sinai School of Medicine, "*Mechanisms and Potential Therapeutic Targets of TPN-associated Cholestasis*", New York, NY, September 14, 2006

2006 MSTP Annual Retreat, Graduate School of Biological Sciences, Mt. Sinai School of Medicine, Panel Member, Visiting Professor, New Paltz, NY, September 16, 2006

Pediatrics, Critical Care, Baylor College of Medicine, "*Pediatric Liver Transplantation*", Houston, TX, January 29, 2007

Feigin Center Pediatric Research Seminar, Baylor College of Medicine, "*Nuclear receptor ligands an anti-inflammatory agents in Liver: targeting regulation of RXRa by cell signaling pathways*", Houston, TX, January 31, 2007

Adult Hepatology/Transplantation Conference, Baylor College of Medicine, Baylor Clinic, "*Neonatal Cholestasis*", Houston, TX, April 10, 2007

Grand Rounds, University of Mississippi, "*TPN induced Cholestasis*", Jackson, MS, April 25, 2007

Transplant Services, Texas Children's Hospital, "*Texas Children's Hospital Pediatric Liver Transplantation Update*", Houston, TX, February 20, 2008

Department of Pulmonary, Texas Children's Hospital, "*Cystic Fibrosis-Associated Liver Disease*", Houston, TX, February 29, 2008

Adult Hepatology Conference, Baylor College of Medicine, "*Pediatric Liver Transplantation*", Houston, TX, March 3, 2008

Pediatric Surgery Grand Rounds, Baylor College of Medicine, "*Biliary Atresia: Follow the Yellow BARC Road*", Houston, TX, March 5, 2008

Mount Sinai's Pediatric Liver Symposium, Mount Sinai School of Medicine, Visiting Professor, "*Cholestasis*", New York, NY, April 12, 2008

Baylor College of Medicine Pediatric Residents, Texas Children's Hospital, "*Interpretation of Liver Tests and Hepatitis Serologies*", Houston, TX, May 13, 2008

Georgetown University, "*Molecular Mechanisms of TPN-associated Cholestasis*", Washington, DC, May 29, 2008

Grand Rounds, Department of Pediatrics, GI, Hepatology & Nutrition, Texas Children's Hospital, "*The Persistently Jaundiced Infant*", Houston, TX July 11, 2008

Grand Rounds, Texas Children's Hospital, "*Biliary Atresia & Neonatal Cholestasis*", Houston, TX, October 24, 2008

Speaker, Pediatric Emergency Medicine (PEM) General Conference, Baylor College of Medicine/Texas Children's Hospital, "*Pediatric Liver Diseases in the ED: pre- and post-liver Transplant*", Houston, TX, October 30, 2008

Hepatology/Liver Transplantation Conference, Baylor College of Medicine, "*Cholestatic Syndrome in Children and Adults*", Houston, TX, December 8, 2008

Children's Hospital of Philadelphia, "*Mechanisms and Adaptation to Cholestasis*", Philadelphia, PA, December 10, 2008

Critical Care Section Conference, Baylor College of Medicine, Lecturer, "*Patient Care Conference: Hepatic Encephalopathy & Extracorporeal Liver Support*", Houston, TX, January 15, 2009

Critical Care Section Conference, Baylor College of Medicine, Lecturer, "*Extra-Hepatic Manifestations of End-Stage Liver Disease*", Houston, TX January 26, 2009

Fellows Conference, Department of Pediatrics, GI, Hepatology & Nutrition, Baylor College of Medicine/Texas Children's Hospital, "*Mechanisms of Bile Formation and Cholestasis*", Houston, TX, March 19, 2010

Hepatology/Liver Transplantation Conference, Baylor College of Medicine, "*Bile Acid Transporters and Cholestasis*", Houston, TX, March 22, 2010

Fellows Conference, Department of Pediatrics, GI, Hepatology & Nutrition, Baylor College of Medicine/Texas Children's Hospital, "*Approach to Neonatal Cholestasis*", Houston, TX, May 28, 2010

The Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine, Invited Lecturer, "*Crosstalk between nuclear receptors and inflammation in liver*", Philadelphia, PA, June 22-24, 2009

UCSD-Rady Children's Hospital of San Diego, Grand Rounds, "*The Persistently Jaundiced Infant*", San Diego, CA, October 21-23, 2009

City of Hope, Developmental Cancer Therapeutics Seminar, Inviter Lecturer, "*Nuclear Receptors as Therapeutic Targets with Liver Disease*", Duarte, CA, December 9-11, 2009

Division of Continuing Medical Education, Vanderbilt University School of Medicine, Invited Lecturer, "*Crosstalk between nuclear receptors & inflammation in liver*", June 27-28, 2010

Fellows Conference, Department of Pediatrics, GI, Hepatology & Nutrition, Baylor College of Medicine/Texas Children's Hospital, "*Approach to Neonatal Cholestasis*", Houston, TX, August 27, 2010

Medical Scientist Training Program, Baylor College of Medicine, "*Biomedical Research Seminar*", Houston, TX, November 8, 2010

Fellows Conference, Department of Pediatrics, GI, Hepatology & Nutrition, Baylor College of Medicine/Texas Children's Hospital, "*Fibrosis/Cirrhosis*", Houston, TX, November 12, 2010

Texas Children's Research Seminar Series, "*Crosstalk between inflammation and nuclear receptor function in liver*", Houston, TX, January 19, 2011

Department of Pediatric, Mt. Sinai School of Medicine, "*Crosstalk Between Nuclear Receptors and Inflammation in Liver*", New York, NY, February 14-15, 2011

Department of Pediatrics, GI, Hepatology & Nutrition, Emory University School of Medicine, Invited Lecturer, "*Crosstalk Between Nuclear Receptors and Inflammation in Liver*" Atlanta, GA, February 28-March 1, 2011

Department of Pharmacology, Emory University School of Medicine, Invited Lecturer, "*Crosstalk Between Inflammation and Nuclear Receptor Function in Liver*" Atlanta, GA, September 27, 2011

Division of Digestive Diseases And Emory Epithelial Pathobiology Research Development Center, Emory University School of Medicine Basic Research Seminar "*Crosstalk Between Nuclear Receptors and Inflammation in Liver Biology*" at Atlanta, GA, November 11, 2011

Pediatric Grand Rounds, Children's Healthcare of Atlanta, "*Biliary Atresia and Neonatal Cholestasis*" Atlanta, GA November 30, 2011

Gastroenterology Grand Rounds, Department of Medicine, Emory University School of Medicine, "*Cholestatic Syndromes and Genes: Relevance and Insights for Adult Hepatology*", Atlanta, GA, December 5, 2011

Pediatric Research Grand Rounds, Children's Healthcare of Atlanta-Egleston "*Endotoxin & the Liver: Roles for Inflammation-Induced Changes in Liver Gene Transcriptional Regulators*", Atlanta, GA, March 2012

Renal Grand Rounds, Renal Division, Emory University School of Medicine, "*Molecular Mechanisms of Sepsis-Associated Cholestasis*", Atlanta, GA March 2012

Division of Gastroenterology, Hepatology & Nutrition, Virginia Commonwealth University Medical Center, Visiting Professor, "*12th Annual Edward W. Moore Memorial Lecture*", Richmond, VA, June 1, 2012

Pediatric Residency Training Program, Emory University School of Medicine, Pediatric Core Curriculum Lecture Series, "*Interpretation of Liver Tests*" August 21, 2012

Grand Rounds, Department of Human Genetics, Emory University School of Medicine, "*The genetics of cholestasis--implications for children, adults, and liver biology*", November 26, 2012

Basic Science Lecture, Department of Pediatric Surgery, Emory University School of Medicine, "*Surgeons on TPNAC*", January 9, 2013

Pediatric Research Grand Rounds, Children's Healthcare of Atlanta Egleston "*When a nuclear protein ventures outside of the nucleus: new biology for the central liver gene regulator, RXR* ", March 20, 2013

Yale Liver Center "*Crosstalk between nuclear receptors and liver biology in inflammation*", April 23, 2013

Yale Pediatric Grand Rounds: "*Biliary Atresia* ", April 24, 2013

2013 Balistreri Lecture, Cincinnati Children's Hospital Medical Center (CCHMC) "*Crosstalk Between Nuclear Receptors and Inflammation in the Liver*", Cincinnati, OH, November 19-20, 2013

Emory Transplant Center (ETC) Noon Conference, Emory University School of Medicine, "*Biliary Atresia* ", January 29, 2014

Molecular and Integrative Physiology Departmental Seminar Series, The University of Illinois at Urbana-Champaign, "*Crosstalk between nuclear receptors and inflammation in liver*", March 20, 2014

Bile Acid Lecture, Emory Center for AIDS Research (CFAR) "*Bile Acid Based Therapeutics for GI, Liver and Obesity-related Metabolic Disorders*", March 25, 2014

Grand Rounds, Children's Hospital of Greenville Health System, "*Cholestasis*", May 9, 2014

Diabetes Symposium: Session 2: Diabetes Complications, Emory University, *Bile acids for Diabetes & Fatty Liver*, June 9, 2014

Pediatrics Residency Program Noon Conference, Emory University, "*The Jaundiced child & adolescent*", June 18, 2014

Grand Rounds, University of Tennessee College of Medicine, "*Biliary Atresia and the Jaundiced Infant*", Chattanooga, TN, April 15, 2015

Grand Rounds, Indiana University School of Medicine, “*Diagnosing liver diseases in children in 2015: Blood Tests, Biopsy Needle, or Genomics*”, May 27, 2015

Grand Rounds, Baystate Children’s Hospital/Tufts University School of Medicine, “*The persistently jaundiced infant*”, “Boston, MA, June 8-9, 2015

Daniel Miller Visiting Professorship, Children's Mercy Hospital, “*Biliary Atresia*”
Kansas City, MO, August 26-27, 2015

Grand Rounds, Children's Mercy Hospital, “Post-translational modification of rxr α ”,
Kansas City, MO, August 27, 2015

Invited Speaker, Nationwide Children’s Hospital (NCH), “*Bile Acid-based Therapeutics for Liver and Obesity-related Disorders*”, Columbus, OH, August 17-18, 2016

Invited Speaker, Stanford Lecture Series, *Bile Acid-based Therapeutics for Liver and Obesity-related Disorders*, Stanford, CA, February 21-22, 2017

Invited Speaker, NASPGHAN: *Essential Pediatric GI – Everything you wanted to know about pediatric GI and are afraid to be asked*, Scottsdale, AZ, February 23-25, 2017

Invited Speaker, AASLD Clinical Hepatology Update Emerging Treatments For
Cholestatic Liver Diseases, San Diego, CA, June 2-3, 2017

Invited Speaker, AASLD Clinical Hepatology Update *Pediatric Liver Disease: What A General Gastroenterologist/Hepatologist Should Know*, San Diego, CA, June 2-3, 2017

Invited Lecturer, Department of Pediatrics, GI, Hepatology & Nutrition, Emory University School of Medicine, “*Pediatric Liver Diseases in Adulthood: What the adult gastroenterologist/hepatologist should know*” Atlanta, GA, June 20, 2017

Invited Speaker, AASLD Emerging Trends Conference “*Nuclear Receptors and Cholangiopathies.*” Arlington, VA, March 16, 2018

Invited Talk, Kiwanis Club of Marietta, “*Biliary Atresia*”, Atlanta, GA, August 16, 2018

Transplant Grand Rounds, The Mayo Clinic, *Pediatric Liver Diseases Continuing into Adulthood*, Rochester, MN, August 20, 2018

Pediatric Grand Rounds, Cleveland Clinic Children’s “*Utility of genetic testing in pediatric cholestasis*”, Cleveland, OH, September 25, 2018

Pediatric Liver Lectureship Series, Cleveland Clinic Children's "New therapies for cholestasis", Cleveland, OH, September 26, 2018

Invited Speaker, Genetics and Molecular Biology Graduate Program Seminar Series, Emory University Laney Graduate School, "Genetic Underpinnings of Biliary Atresia" Atlanta, GA, October 2, 2018

Invited Lecturer, Emory Transplant Center (ETC) Noon Conference, "Biliary Atresia: Pre-transplant contributions to post-transplant outcomes", Atlanta, GA, January 23, 2019

Invited Speaker, Scientific Symposium in honor of Dr. Milton J. Finegold, "More than a pathologist: permanent contributions from Milton J. Finegold" Houston, TX, February 9, 2019

Invited Lecturer, Department of Pediatrics, GI, Hepatology & Nutrition, Emory University School of Medicine, "Cholestasis Guidelines (NASPGHAN)" Atlanta, GA, March 19, 2019

Invited Speaker, University of Pittsburgh Liver Center, "Bile Acid based approaches to treating cholestatic diseases, Pittsburgh, PA, April 1, 2019

Invited Speaker, Hunan Children's Hospital, "Liver disease in IBD" Hunan, China, June 28, 2019

Invited Lecturer, Department of Pediatrics, GI, Hepatology & Nutrition, Emory University School of Medicine, "How to Succeed as an Academic Fellow" Atlanta, GA, July 16, 2019

Invited Lecturer, Department of Pediatrics, GI, Hepatology & Nutrition, Emory University School of Medicine, Acute Care Series: "Neonatal Cholestasis/Biliary Atresia" Atlanta, GA, September 3, 2019

Invited Speaker, Emerging Topic Conference "Genetic Susceptibility to Biliary Atresia" Arlington, VA, September 20, 2019

Invited Lecturer, Molecules to Mankind (M2M) Program, Emory University, Rollins School of Public Health, "Pick a 30 year problem for a career. Be prepared", Atlanta, GA, October 7, 2019

Invited Lecturer, Department of Pediatrics, GI, Hepatology & Nutrition, Emory University School of Medicine, "Cholestasis: New mechanisms and rational therapeutic targets", Atlanta, GA, June 9, 2020

Invited Lecturer, Department of Pediatrics, GI, Hepatology & Nutrition, Emory University School of Medicine, "How to Succeed as an Academic Fellow" Atlanta, GA, July 21, 2020

Invited Lecturer, Department of Pediatrics, GI, Hepatology & Nutrition, Emory University School of Medicine, Acute Care Series: “*Cholestasis*” Atlanta, GA, August 25, 2020.

Invited Keynote Speaker, University of Cincinnati College of Medicine, T35 Fall Medical Student Summer Research Program, “*The Life It Brings*”, Cincinnati, OH, October 16, 2020.

Invited Speaker, NASPGHAN Alagille Syndrome Webinar: Advances in Diagnosis and Treatment of Alagille Syndrome, “*Current and Future Therapies*”, Virtual, February 8, 2021

Invited Lecturer, Department of Human Genetics, Emory University School of medicine, “*Unraveling genetic contributions to biliary atresia*”, Virtual, March 15, 2021

Invited Speaker, Progressive Familial Intrahepatic Cholestasis (PFIC) Listening Session with the U.S. Food and Drug Administration (FDA), “*PFIC a clinician’s perspective*” March 22, 2021.

25. Invitations to National or International Conferences:

Falk Symposium No. 120 Biology of Bile Acids in Health and Disease, “*Transcriptional Down Regulation of the ntcp Promoter by Bile Acids*” The Hague, Netherlands, 2000

American Association for the Study of Liver Disease, Session Moderator, “*Cytokines and Gene Expression*”, Dallas, TX, 2000

Falk Workshop Hepatobiliary Transport: From Bench to Bedside, “*Transcriptional Regulation of Sinusoidal Transporters*”, Aachen, Germany, 2001

Clinical Symposium American Gastroenterological Association Digestive Disease Week, Session Moderator, “*Pediatric Cholestasis*”, San Francisco, CA, 2002

American Gastroenterological Association Digestive Disease Week, Abstract Session, Session Moderator, “*Intestinal Gene Expression*”, San Francisco, CA, 2002

American Gastroenterological Association Digestive Disease Week, Meet the Professor Luncheon Program, “*Nuclear receptor regulation of hepatobiliary function*”, San Francisco, CA, 2002

Falk Workshop Bile Acids: From Genomics to Disease and Therapy “*Coordinated regulation of hepatobiliary transporter genes by nuclear receptors*”, Freiburg, Germany, 2002

The American Association for the Study of Liver Disease (AASLD)/North American Society of Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN) Joint Symposium, *“Role of nuclear factors in neonatal cholestasis”*, Boston, MA, 2002

American Association for the Study of Liver Disease, Single Topic Conference, Nuclear Receptor Regulation of Hepatobiliary Function, *“Role of nuclear receptors in the hepatic adaptation to cholestasis”*, Warrenton, VA, 2003

Department of Pediatric Gastroenterology and Hepatology, Academic Hospital Groningen, *“Nuclear receptor ligands: Novel treatments for cholestasis”* Groningen, The Netherlands, 2003

American Association for the Study of Liver Disease Early Morning Workshop, Co-Moderator, *“Nuclear receptors and regulation of bile and homeostasis”*, Boston, MA, 2003

11th United European Gastroenterology Week (UEGW), *“Transcriptional regulation of hepatobiliary transporter genes: implications for understanding the cholestatic phenotype”*, Madrid, Spain, 2003

Mead Johnson Nutritionals 20th Interdisciplinary Neonatal Nutrition & Gastroenterology Symposium, *“Nuclear receptors: novel therapeutic targets to treat cholestasis”*, Ponte Vedra Beach, Florida, 2003

The American Liver Foundation Biliary Atresia Research Update and Reception, *“What is Biliary Atresia”*, Houston, Texas, 2004

Cystic Fibrosis Regional Meeting, Department of Pediatrics-Pulmonary, Baylor College of Medicine/Texas Children's Hospital, *“Liver disease in cystic fibrosis”*, The Woodlands, Texas, 2004

American Gastroenterological Association Digestive Disease Week (DDW), AASLD Research Forum Moderator, *“Regulation of hepatobiliary transport and lipid metabolism”*, New Orleans, LA, 2004

American Gastroenterological Association Digestive Disease Week (DDW), *“New insights into TPN-associated cholestasis”*, New Orleans, LA, 2004

American Gastroenterological Association Digestive Disease Week (DDW), *“Synergy & conflict between nuclear receptors and cell signaling in cholestasis”*, New Orleans, LA, 2004

Falk Symposium No. 141, XVIII International Bile Acid Meeting, Bile Acid Biology and its Therapeutic Implications, *“Integration of nuclear receptors and cell signaling pathways on bile acid physiology”*, Stockholm, Sweden, 2004

Division of GI & Hepatology, Karl-Franzens University of Graz, "*Crosstalk between nuclear receptors and cell signaling in the hepatic response to cholestasis*", Graz, Austria, 2004

American Association for the Study of Liver Disease, Pediatric Single Topic Conference, Intrahepatic Cholestasis, "*Cross talk between nuclear receptors and cell signaling in the hepatic response to cholestasis*", Atlanta, GA, 2004

The American Association for the Study of Liver Disease Annual Meeting, David H. Perlmuter, MD, State of the Art Lecture, Moderator, "*Alpha-1 antitrypsin deficiency: a new paradigm for hepatocellular carcinoma in genetic liver disease*", Boston, MA, 2004

The American Association for the Study of Liver Disease Annual Meeting, Co-Moderator, "*Transporter cell biology and gene regulation*", Boston, MA, 2004

Early Morning Workshop, American Association for the Study of Liver Disease Annual Meeting, Co-Moderator, "*Nuclear receptors and regulation of bile and homeostasis*", Boston, MA, 2004

The American Association for the Study of Liver Disease Annual Meeting, Early Morning Workshop, Co-Moderator, "*Nuclear receptors*", San Francisco, CA, 2005

Netherlands Society of Hepatology, "*Mechanisms of Cholestasis*", The Netherlands, Veldhoven, 2006

AASLD Annual Meeting Post-Graduate Course, "*New Drug Therapy to Modulate Gene Expression*", Boston, MA, 2006

AASLD Annual Meeting Meet the Professor Luncheon, "*Liver Diseases: Mechanisms of Liver Injury and Emerging therapies*", Boston, MA, 2006

2007 AAPS Spring Workshop Series, AAPS Workshop on Drug Transporters in ADME: From Bench to the Bedside, "*Transcriptional Regulation of Liver Transporters in Response to Cholestasis*", Bethesda, MD, 2007

Special Meeting of the Chilean Association of Hepatology Adult and Pediatric Cholestasis, "*Pathophysiology of Cholestasis*", Santiago, Chile, 2007

Special Meeting of the Chilean Association of Hepatology Adult and Pediatric Cholestasis, "*Pediatric Cholestasis: A 2007 update*", Santiago, Chile, 2007

21st Annual North American Cystic Fibrosis Conference, "*Treatment options for CF-associated Liver Disease*", Anaheim, CA, 2007

American Association for the Study of Liver Disease, Moderator Meet the Professor Luncheon Post Graduate Course, Pathophysiologic Basis for the Therapy of Liver Disease, Boston, 2007

Alpha 1 Advocacy Alliance, "*Alpha₁ antitrypsin deficiency: a liver perspective*", Houston, TX, April 1, 2007

59th Annual American Association for the Study of Liver Disease, Invited Moderator, "Parallel XIII: Molecular Biology of Bile Formation", San Francisco, CA, 2008

NASPGHAN – CDHNF Clinical and Scientific Conference, Clinical Challenge Luncheon, Invited Moderator, "Metabolic Liver Disease: When to consider the diagnosis & how to make it", November, 2008

2008 AASLD Research Highlights Program, Invited Faculty/Moderator, Digestive Disease Week (DDW), San Diego, CA, 2008

International Symposium of Neonatal and Pediatric Critical Medicine, "*Pediatric Liver Transplantation*", Monterrey, Mexico, 2008

University of Graz, School of Medicine, Department of Gastroenterology & Hepatology, "*Modification of RXR - Roles in Liver Injury and Inflammation*", Graz, Austria, 2009

Department of GI, Hepatology and Nutrition, Sickkids Hospital, "*Molecular Mechanisms of Sepsis-Associated Cholestasis*", Toronto, Canada, 2009

AASLD/NASPGHAN Clinical Symposium, Session: Cystic Fibrosis Liver Disease in the 21st Century, Digestive Disease Week, "*Management of Complications of CF Liver Disease: To Transplant the Liver or Not*", Chicago, IL, 2009

NIDDK and Cystic Fibrosis Liver Foundation, Cystic Fibrosis Liver Disease Clinical Research Workshop, "*Medical and Surgical Therapy of CF Liver Disease*", Bethesda, MD, 2009

NIH-NIDDK Liver Section, "*The Broad Hepatic Response to Endotoxin*", Bethesda, MD, 2009

DDRCC Directors and Administrators 2010 National Meeting, Texas Medical Center Digestive Disease Center (DDC), "*Cardiac/energetic Phenotype of Cirrhosis With A Potential Role for Bile Acid Signaling*", Houston, TX, 2010

Digestive Disease Week, "*Hepatic Complications of Short Bowel Syndrome*", New Orleans, LA, 2010

24th Annual North American Cystic Fibrosis Conference (NACFC), Baltimore, MD, 2010

Eleventh Annual International Hot Topics in Liver Disease Conference, St. Lukes' Center for Liver Disease/St. Luke's Texas Liver Coalition, "*Genetic Liver Disease in Young Adults*", Houston, TX, 2010

2010 North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN) Annual Meeting and Postgraduate Course, "*TPN Cholestasis*", New Orleans, LA, 2010

American Association for the Study of Liver Disease Clinical Research Single Topic Conference titled "Pediatric Liver Transplantation", "*What are the most promising strategies to improve late patient and graft outcomes for pediatrics liver transplant recipients?*", Atlanta, Georgia, 2011

American Pediatric Society/Society for Pediatric Research, PAS/SPR Joint Meeting, "*Understanding Genetic and Nutritional Risks for the Development of NAFLD/NASH*", Denver, CO, 2011

American Pediatric Society/Society for Pediatric Research, PAS/SPR Joint Meeting, "*Parenteral Nutrition Associated Liver Disease: Novel Models and New Theories*", Denver, CO, 2011

Pediatric Academic Society (PAS) Annual Meeting "*Parenteral Nutrition Associated Liver Injury (PNALI) in the Preterm Infant: Mechanisms, Consequences, and Interventions*", Boston, MA April 2012

Partners Seeking Cure (PSC) Conference, "*Letting yourself be a teenager*" Rochester, MN, May 2012

Partners Seeking Cure (PSC) Conference, "*Letting your kid be a kid: daily practicalities and expectations for their future*", Rochester, MN, May 2012

The National Institute of Diabetes & Digestive & Kidney Diseases' (NIDDK) workshop on Bile Acid-mediated Integration of Metabolism and Liver Disease: Translational Science and Therapeutic Engagement, "*Crosstalk between inflammation and bile acid regulated pathways in liver*", Bethesda, MD, June 8, 2012

Pittsburgh Intestinal Failure Meeting, PNALD: *Parenteral nutrition Associated Liver Disease - Cellular Mechanisms of TPN Cholestasis*, Pittsburg, PA, September 7, 2012

S2E-HCV Workshop: Seek, Test, Treat, Eradicate HCV "*Global Opportunities for New and Emerging Therapies for the HCV-infected Child*", Emory University Conference Center, September 12-14, 2012

Falk Bile Acid Meeting, "*The heart as a target of bile acid signaling*" Vienna, Austria, September 14-15 2012.

Studies of Pediatric Liver Transplantation (SPLT) Group Annual Meeting, “*The Hepatologist Perspective*”, Denver, CO, October 11-12, 2012

NASPGHAN Post Graduate Course and Annual Meeting, “*Metabolic Liver Disease – working through the maze*” Salt Lake City, UT October 18, 2012

63rd Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), The Liver Meeting 2012, “*Genetics of Cholestasis*” for the AASLD Post-Graduate Course, Boston, MA, November 9-13, 2012

Paediatric Symposium at CASLCDDW, Intestinal Failure Associated Liver Disease, Victoria, CANADA, “*Genetic and lipid contributions to TPN-associated Cholestasis*” March 2, 2013

Endotoxin & the Liver, Santiago Chile, April 10, 2013

New Horizons in Pediatrics Conference, Children’s Healthcare of Atlanta and Emory University, *The persistently jaundiced infant*, April 20, 2013

AASLD/EASL Clinical Research Single Topic Conference, Portal Hypertension & Variceal Hemorrhage, Atlanta, GA “*Portal Hypertension in BA: insights & clinical consequences*”, June 8-9, 2013

2013 North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN) Annual Meeting and Postgraduate Course, “*Liver Disease and IBD*”, Chicago, IL, October 12, 2013

Annual Neonatal Symposium, The Mildred Stahlman Division of Neonatology, Department of Pediatrics at Monroe Carell Jr. Children’s Hospital at Vanderbilt, “*Metabolic Liver Disease in Infants: Evaluation and Treatment*” Nashville, TN, November 14, 2013.

Annual Neonatal Symposium, The Mildred Stahlman Division of Neonatology, Department of Pediatrics at Monroe Carell Jr. Children’s Hospital at Vanderbilt, “*Neonatal Cholestasis: Roles for Genes and Soy Lipids*” Nashville, TN, November 15, 2013.

HEP/DART 2013 “Frontiers in Drug Development for Viral Hepatitis, *Global Opportunities for Maternal-Fetal Prevention of HBV/HCV and Therapies for the HCV-infected Child*, Fairmont Orchid, Hawaii, December 8-12, 2013

Advances in Pediatric Gastroenterology, Hepatology and Nutrition 2014, Boston Children’s Hospital, “*PFICs: Diagnosis and Optimal management*”, Boston, MA, April 10-12, 2014

Digestive Disease Week (DDW) 2014, “*Pharmacogenomics and Pediatric Liver Disease*”, Chicago, IL, May 4-6, 2014

8th International Pediatric Intestinal Failure and Rehabilitation Symposium, “*Progress in Understanding Pathogenesis of Cholestasis*”, Atlanta, GA, September 11-13, 2014

Falk Symposium 194: "XXIII Bile Acid Meeting: Bile Acids as Signal Integrators and Metabolic Modulators", “*Genetic contributions and modifiers of biliary atresia*”, Freiburg (Germany), October 8-9, 2014

Genetic Testing and the Future of Pediatric Gastroenterology: Practical Insights for Clinicians & Researchers, “*Liver (Neonatal Cholestasis, Metabolic, PSC, NAFLD, Transplant)*”, Atlanta, GA, October 22, 2014

NASPGHAN 2014 Postgraduate Course, “*The Jaundiced Infant*”, Atlanta, GA October 23, 2014

NASPGHAN 2014 Learning Lunch, “*Jaundice in the NICU*”, Atlanta, GA October 23, 2014

AASLD The Liver Meeting 2014, “*Cardiopulmonary Complications of Liver Disease in Children and Adults*” November 7-11, 2014, Boston, MA

Neonatology Conference 2015, “*Management of the persistently jaundiced neonate*”, May 1, 2015, Atlanta, GA

Canadian Digestive Disease Week 2016, Updates in Paediatric Cholestasis Symposium, “*Bile Acid-based Therapeutics for Liver and Obesity-related Disorders*”, February 27, 2016, Montreal, Quebec.

International Workshop on NASH Biomarkers, “*Biomarkers development in pediatric NAFLD: special Challenges in a special population*”, April 29, 2016, Washington, DC

World Congress of Pediatric Gastroenterology, Hepatology and Nutrition, Cholestatic Hepatobiliary Diseases Session “*Disorders of biliary transport and bile acid metabolism*”, October 6, 2016, Montreal, CANADA

AASLD Liver Meeting 2017 *Nuclear Receptors in Pediatric Liver Diseases and Therapeutic Potential*, October 21, 2017, Washington, DC

NASPGHAN Annual Meeting 2017: Meet the Professor Breakfast Session, “*Understanding genetic testing in cholestatic liver disease*”, November 3, 2017, Las Vegas, NV.

Pediatric Academic Society (PAS) Meeting 2018, “*Happy liver, happy life: keeping the liver healthy on TPN*”, May 5, 2018, Toronto, Canada

AASLD Liver Meeting 2018 “*Methodological Consideration in Genomics*”, November 9, 2018, Boston, MA

AASLD Liver Meeting 2018 “*Personalized Therapies for Pediatric Cholestatic Liver Diseases*” November 11, 2018, Boston, MA

AASLD Symposium 2019 The Genomics Revolution: Changing Our Approach to Diagnostics, Management and Research in Adult and Pediatric Liver Disease “*Genetic Susceptibility to Biliary Atresia*” September 20, 2019 Arlington, VA

NASPGHAN Postgraduate Course 2019 “*New therapies for chronic cholestatic diseases*” October 17, 2019, Chicago, IL

NASPGHAN Postgraduate Course 2019: Learning Lunch “*Management of chronic cholestasis*”, October 17, 2019, Chicago, IL

AASLD Liver Meeting 2019 “*Bile Acid Signaling in Genetic Cholestatic Syndromes*” November 8, 2019, Boston, MA

HEP DART 2019 Session 9: New Developments in Liver Disease, Fibrosis and NASH “*NASH therapeutics in children*”, December 11, 2019, Kauai, Hawaii

NASPGHAN Annual Meeting 2020 “*The Bold Study: A Phase 3, Randomized, Placebo-Controlled Trial to Evaluate the Efficacy and Safety of Odevixibat (A4250) in Infants with Biliary Atresia after Kasai Portoenterostomy*”, Poster Session, presented virtually due to COVID-19, November 2020

AASLD, The Liver Meeting Digital Experience™ Basic Research Workshop, “*The Gut Microbiota: From Descriptive Studies to Targets of Therapy*”, Invite speaker, virtually due to COVID-19, November 2020

26. Other Activities:

Interviewed on Houston Spanish television channel on the topic “Pediatric liver transplants”, November 2001

American Medical News, Interview on the topic “Transplant scoring system called more fair”, May 13, 2002

Interviewed by television news teams from KPRC Channel 2 Houston and KXAN Channel 36 Austin regarding Texas’ first dual liver/lung transplant performed on January 5, 2004 at Texas Children’s Hospital in Houston, Texas, January 2004

Interviewed by Emily Akin, KPRC Channel 2 Houston television news regarding parents petitioning Humana for services provided their child at Texas Children’s Hospital in Houston, Texas, February 2004

Interviewed by Krista Marino, KPRC Channel 2 Houston television news on the topic “Biliary Atresia”, May 2004

Interviewed by Bryan Tutt, Hepatitis magazine, for an article featuring a Texas Children’s Liver Center hepatitis C patient, Hepatitis, 6(3):10-13, July-Sept 2004

Interviewed by Christi Myers, KTRK Channel 13 Houston television news regarding an innovative life-saving procedure performed at Texas Children’s Hospital on a fourteen-year-old patient with a severe liver problem, February 23, 2005

Children's Miracle Network Television, Interview, (Chase McGowen Lung-liver transplant), April 27, 2005

Broadcast Center/TV Healthline, Baylor College of Medicine, interview on the topic of "Biliary Atresia", November 2005

BCM Family, "It's all about collaboration" section, Interview by Harriet Spain, Article titled, "Center studies and treats rare pediatrics liver diseases", January 2006.

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Linh Nguyen, National Vietnamese TV, Interview on liver transplantation, SBTN Dallas-Fort Worth, TX, January, 14, 2011

Content expert for ITV-produced show for PBS “*Exploration Health*” Show on Bile acid Synthesis Disorders. Filmed January 26, 2016

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Interview with Maressa Brown, Parents Magazine, “Mom is Tirelessly Raising Awareness About Her Daughter’s Rare, Life-threatening Disease”, April 19, 2019, <https://www.parents.com/news/mom-is-tirelessly-raising-awareness-about-her-daughters-rare-life-threatening-disease/>

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- b. Manuscripts submitted:
- Duke Geem, Wenxiao Jiang, Heather B. Rytting, Shanmuganathan Chandrakasan, Anand Salem, James P. Stevens, **Saul J. Karpen**, Joseph F. Magliocca, Rene Romero, Dellys Soler Rodriguez. Resolution of Recurrent Pediatric Acute Liver Failure with Liver Transplantation in a Patient with NBAS mutation. Submitted to Pediatric Transplantation. Accepted with minor revisions.
- c. Review articles:
- Karpen, S.J.**, (2002) Update on the etiologies and management of neonatal cholestasis. *Clin Perinatol* 29:159-180 (Invited Review)
- Karpen, S.J.**, (2002) Nuclear receptor regulation of hepatic function. *J Hepatology* 36:832-850 (Invited Review)
- Karpen SJ**, Trauner M. The new therapeutic frontier--nuclear receptors and the liver. *J. Hepatol*. 2010. p. 455–62. (Invited Review)
- Karpen, SJ.** (2012) Curiouser and curiouser! *J Hepatol*. PMID: 226341241 (Invited Review)
- Karpen SJ.** (2013) Do Therapeutic Bile Acids Hit the Sweet Spot of Glucose Metabolism in NAFLD? *Gastroenterology*. 2013 Sep;145(3):508–10. PMID: 23891611 (Invited Review)
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d. Symposium contributions:

Symposium Organizer, Pediatric Hepatology, American Association, for the Study of Liver Diseases (AASLD) Annual Meeting, Boston, MA, 2003

Joint EASL-AASLD Monothematic Conference Nuclear Receptors and Liver Disease, Vienna, Austria, 2009

NIH Symposium 2007 on CF Liver Disease

NIH Symposium 2012 on Bile Acid Biology (Organizer)

NIH Symposium 2017 on Cholestatic Diseases

AASLD Conference 2017 on Nuclear Receptors and Liver Disease

AASLD Conference 2019 on Bile acid biology

AASLD Conference 2019 on Genetics in Liver Diseases

e. Book chapters:

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f. Books edited and written:

Clark, B.S., Chang, I-F., Goss, J.A., Quiros, R.E., **Karpen, S.J.**, The Texas Children's Liver Center Protocol Book for the Care of the Pediatric Liver Transplant Patient, 2003.

Section Editor—Liver in *Rudolph's Pediatrics*, 23rd Edition, 2008

g. Other publications:

Sokol, R.J., Bezerra, J., Haber, B., **Karpen, S.J.**, Perlmutter, D., Rosenthal, P., Schwarz, K., Shepherd, R., Shneider, B., Whittington, P., Brown, M., Magee, J., Robuck, P., and Hoofnagle, J., for BARC. Biliary Atresia Research Consortium (BARC): NIH funded network to advance knowledge and improve care and outcomes in biliary atresia. Presented at Poster Session of NIH Workshop on Screening and Outcomes in Biliary Atresia, Bethesda, MD., September 11, 2006

Ghose, R., Mulder, J., von Furstenberg, R.J., Thevananther, S., Kuipers, F., **Karpen, S.J.**, "Rosiglitazone attenuates suppression of RXR -dependent gene expression in inflamed liver", XIII Falk Liver Week, Falk Symposium, XIX International Bile Acid Meeting, Freiburg, Germany, October 6-7, 2006

Ghose, R., White, D., Velleja, J., and **Karpen, S.J.**, "Regulation of drug metabolizing enzymes in inflammation: Role of the Toll-like receptor 4 signaling pathway. American Society for Pharmacology and Experimental Therapeutics. 2007

Jain, A.J., Garner, D.K., **Karpen, S.J.**, Eldin, K.W., Fishman, D.S., "Non-caseating granulomas in lymph nodes of a pediatric liver transplant recipient associated with parvovirus B19 infection. NASPGHAN, October 25-27, 2007

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Baghdasaryan, A., Kusters, A., Claudel, T., Fuchsbichler, A., Gumhold, J., Silbert, D., Leski, L., Fickert, P., **Karpen, S.J.**, and Trauner, M., "Curcumin improves liver injury and Biliary fibrosis in MDR2 (ABCB4) knockout mice by inducing anti-oxidative response, but not via modification of bile acid transport/metabolism". EASL Annual Meeting, Milan, Italy, April 23-27, 2008, Journal of Hepatology, 48:S171, 2008

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Caudle, S., Katzenstain, J., **Karpen, S.J.**, McLin, V., "Expression language and motor skills are markedly impaired in infants with biliary atresia", 2009 American Association for the Study of Liver Disease Annual Meeting, Boston, MA, October 30 - November 3, 2009. Hepatology, 50: 417A, Suppl., Oct, 2009

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Kosters, A., **Karpen, S.J.**, "Interference of LPS-mediated changes in hepatic gene expression by activation of RXRa with the synthetic rexinoid LG268", 2010 American Association for the Study of Liver Disease Annual Meeting, Boston, MA, October 29-November 2, 2010. Hepatology 52: 666A-667A, Suppl., Oct, 2010

Shneider, B.L., Abel, R.B., Haber, B., **Karpen, S.J.**, et al., "Cross-sectional multi-center analysis of portal hypertension in 163 children with biliary atresia", 2010 American Association for the study of Liver Disease Annual Meeting, Boston, MA, October 29-November 2, 2010. Hepatology 52: 347A, Suppl., Oct, 2010

Aguirre, R.S., **Karpen, S.J.**, "Inflammation-induced sumoylation of hepatic RXR : a new modification of a central liver gene regulator", 2010 American Association for the Study of Liver Disease Annual Meeting, Boston, MA, October 29-November 2, 2010. Hepatology 52: 604A, Suppl., Oct, 2010

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Squires, R.*, Dhawan, A., Alonso, E.M., Narkewicz, M.R., Rodrigues-Baez, N., Kelly, D.A., Bucuvalas, J., **Karpen, S.J.**, et al., “A prospective clinical trial shows that intravenous N-#622 Acetylcysteine (NAE) does not improve survival in pediatric patients with non-acetaminophen acute liver failure”, Digestive Disease Week (DDW), McCormick Place, Chicago, IL, May 7-10, 2011

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