

CURRICULUM VITAE

Cara Lynn Mack MD

**Chief, Professor
Department of Pediatrics
Division of Gastroenterology**

OFFICE ADDRESS:

Children's Corporate Center
999 N 92 St
Milwaukee, WI 53226
Phone: 414-266-3872
Fax: 414-266-3676
Email: cmack@mcw.edu

EDUCATION:

1982 - 1986 BS, University of Wisconsin, Madison
1988 - 1992 MD, Loyola University Chicago, Stritch School of Medicine

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

1992 - 1993 Internship, Pediatrics, University of Chicago Hospitals, Chicago, Illinois
1993 - 1995 Residency, Pediatrics, University of Chicago Hospitals, Chicago, Illinois
1995 - 1996 Chief Resident, Pediatrics, University of Chicago Hospitals, Chicago, Illinois
1998 - 2001 Fellowship, Pediatric Gastroenterology, Hepatology & Nutrition Children's Memorial Hospital, Feinberg School of Medicine, Northwestern University, Chicago, Illinois

FACULTY APPOINTMENTS:

2001 - 2002 Instructor, Department of Pediatrics, Division of Pediatric Gastroenterology and Hepatology, Children's Memorial Hospital, Feinberg School of Medicine, Northwestern University, Chicago, IL
2002 - 2008 Assistant Professor, Department of Pediatrics, Pediatric Gastroenterology, Hepatology & Nutrition, University of Colorado School of Medicine, Children's Hospital Colorado, Aurora, CO
2003 - 2022 Assistant Professor (secondary appointment), Department of Medicine, Division of Allergy and Clinical Immunology, University of Colorado School of Medicine, Aurora, CO
2008 - 2016 Associate Professor, Department of Pediatrics, Section of Pediatric Gastroenterology, Hepatology & Nutrition, University of Colorado School of Medicine, Aurora, CO
2016 - 2022 Professor, Department of Pediatrics, Section of Pediatric Gastroenterology, Hepatology & Nutrition, University of Colorado School of Medicine, Aurora, CO
2018 - 2022 Tenured Professor & Hewit/Andrews Chair in Pediatric Liver Disease, Department of Pediatrics, Section of Pediatric Gastroenterology, Hepatology & Nutrition, University of Colorado School of Medicine, Aurora, CO
2022 - Present Professor and Division Chief, Department of Pediatrics, Division of Pediatric Gastroenterology, Hepatology & Nutrition, Medical College of Wisconsin, Children's Wisconsin, Milwaukee, WI

ADMINISTRATIVE APPOINTMENTS:

2009 - 2022 Member, Pediatric Indirect Costs Request Committee, University of Colorado School of Medicine
2012 - 2016 Member, Department of Pediatrics Promotions Midpoint Review Committee, University of Colorado School of Medicine
2015 - 2016 Member, Department of Pediatrics Promotions Committee, University of Colorado School of Medicine

2016 - 2022 Co-Chair, Department of Pediatrics Midpoint Promotions Review Committee, University of Colorado School of Medicine

EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:

- 2012 - 2013 Associate Director- Fellowship Training Program, Section of Pediatric Gastroenterology, Hepatology and Nutrition, CHCO, University of Colorado School of Medicine
- 2013 - 2022 Director- Fellowship Training Program, Section of Pediatric Gastroenterology, Hepatology and Nutrition, CHCO, University of Colorado School of Medicine

HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:

- 2017 - 2022 Medical Director- Pediatric Liver Center, Department of Pediatrics, Section of Pediatric Gastroenterology, Hepatology & Nutrition, University of Colorado School of Medicine, Aurora, CO
- 2022 - Present Division Chief, Pediatrics, Division of Pediatric Gastroenterology, Hepatology & Nutrition, Medical College of Wisconsin, Milwaukee, WI

RESEARCH ADMINISTRATIVE APPOINTMENTS:

- 1986 - 1987 Laboratory Research Technician, University of Chicago, Chicago, IL
- 1987 - 1988 Laboratory Research Supervisor, Pathology, Michael Reese Hospital, Chicago, IL
- 2002 - 2022 Mack Laboratory PI/ Supervisor, Pediatrics, Pediatric Gastroenterology, Hepatology & Nutrition, University of Colorado School of Medicine, Aurora, CO
- 2013 - 2018 Member, Department of Pediatrics Research Institute Grant Review, University of Colorado School of Medicine
- 2016 - 2022 Director of GALIIP Pilot Awards, University of CO Gastrointestinal and Liver Innate Immune Program (GALIIP), University of Colorado School of Medicine, Aurora, CO

HOSPITAL STAFF PRIVILEGES:

- 1996 - 1998 Medical Staff Physician, General Pediatrics- Department of Pediatrics, Holy Cross Hospital, Chicago, Illinois
- 2001 - 2002 Instructor- Department of Pediatrics, Division of Gastroenterology and Hepatology, Children's Memorial Hospital, Chicago, Illinois
- 2002 - 2022 Attending Physician- Department of Pediatrics, Section of Pediatric Gastroenterology, Hepatology & Nutrition, CHCO and University of Colorado School of Medicine, Aurora, Colorado
- 2022 - Present Attending Physician- Department of Pediatrics, Division of Pediatric Gastroenterology, Hepatology & Nutrition, Children's Wisconsin, Medical College of Wisconsin, Milwaukee, WI

SPECIALTY BOARDS AND CERTIFICATION:

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
American Board of Pediatrics	1995	2012
ABP- Gastroenterology	2005	2025
ABP- Transplant Hepatology	2006	2026

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
Colorado License	DR-040900	2002	2023
Wisconsin Medical License	76745-20	2022	10/2023

AWARDS AND HONORS:

- 1983 Phi Eta Sigma, Freshman Honor Society
- 1986 Molecular Biology Degree, Honors Candidate
- 1989 Diabetes Young Investigator Award- Loyola University Stritch School of Medicine
- 1990 - 1992 Illinois Department of Public Health Scholarship
- 1999 Johnny Jenna Liver Scholar Award, Jenna Foundation
- 2005 March of Dimes Basil O'Connor Starter Scholar Research Award
- 2005 American Association for the Study of Liver Disease (AASLD), Pediatric Research Abstract Award, San Francisco, CA

2009 - 2015 Best Doctors in America
 2013 Teacher of the Year, Fellowship Program, Section of Pediatric Gastroenterology, Hepatology and Nutrition, Children's Hospital Colorado
 2016 - 2020 Patient-Family Experience Excellence in Patient Care Award, CHCO (top 1% 2019; top 10-20% 2016, 2018, 2020), Children's Hospital Colorado
 2017 - Present Fellow, AASLD
 2018 - 2022 Tenure, University of Colorado School of Medicine
 2018 - 2022 Hewitt/Andrews Chair in Pediatric Liver Disease
 2020 - Present Fellow, North American Society of Pediatric Gastroenterology, Hepatology & Nutrition (NASPGHAN)

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

1995 - 2001 American Association of Pediatrics
 1998 - Present American Association for the Study of Liver Disease (AASLD)
 1999 - Present North American Society for Pediatric Gastroenterology (Hepatology and Nutrition (NASPGHAN))
 2006 - 2018 Society for Pediatric Research (SPR)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorship

2003 - 2006 Co-editor: Journal of Pediatric Gastroenterology and Nutrition
 2016 - 2021 Associate Editor: Hepatology
 2019 - Present Editor, Liver Disease in Children, 5th Edition, Lippincott Williams & Wilkins, Cambridge University Press, PA. (eds: Suchy FJ, Sokol RJ, Balistreri WF, Shneider B, Mack CL and Bezerra J)
 09/2021 - Present Editor, The Association of Pediatric Gastroenterology & Nutrition Nurses (APGNN), Introduction to Pediatric Liver Disease Module, APGNN Assessment-based Certificate Accreditation Program

Editorial Board

2014 - 2018 Editorial Board Member: Cellular and Molecular Gastroenterology and Hepatology

Journal Review

2004 - Present Reviewer for following journals: Gastroenterology; Hepatology; Journal of Pediatric Gastroenterology, Hepatology and Nutrition; Pediatric Research; Journal of Pediatrics; Pediatrics; Journal of Hepato
 2004 Abstract reviewer for pediatric hepatology abstracts, World Congress on Pediatric Gastroenterology, Hepatology and Nutrition, Paris, France
 2005 - Present Abstract reviewer for Digestive Diseases Weekly Annual Meeting- Pediatrics Section
 2005 - 2008 Abstract reviewer for NASPGHAN Annual Meetings
 2010 - 2014 Abstract reviewer for AASLD Annual Meetings
 2018 - 2020 Abstract reviewer for NASPGHAN Annual Meetings

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2005 - 2013 Member, Medical School Admissions Committee, University of Colorado School of Medicine
 2006 - 2022 Member, Scholarship Oversight Committee, Section of Pediatric Gastroenterology, Hepatology and Nutrition, CHCO
 2007 - 2022 Panel discussion member, Department of Pediatrics 2nd and 3rd year Fellowship Retreat, University of Colorado
 2009 - 2022 Member, Pediatric Indirect Costs Request Committee, University of Colorado
 2012 - 2021 Member, Pediatric 2ND Year Fellowship Scientific Writing Review, University of Colorado
 2012 - 2021 Member, Pediatric Summer Student Research Internship Program, University of Colorado
 2012 - 2016 Member, Department of Pediatrics Promotions Midpoint Review Committee, University of Colorado
 2012 - 2013 Associate Director- Fellowship Training Program, Section of Pediatric Gastroenterology, Hepatology and Nutrition, CHCO
 2013 - 2022 Director- Fellowship Training Program, Section of Pediatric Gastroenterology, Hepatology and Nutrition, CHCO
 2013 - 2018 Member, Department of Pediatrics Research Institute Grant Review, University of Colorado
 2014 - 2015 Member, Leadership for Innovative Team Science (LITeS), University of Colorado School of

Medicine

- 2015 - 2022 Reviewer, Midpoint Internal Review of Internal Medicine- Pediatrics Residency Program, University of Colorado
- 2015 - 2016 Member, Department of Pediatrics Promotions Committee, University of Colorado
- 2015 - 2022 Reviewer, Colorado Clinical and Translational Sciences Institute Pre-K Program
- 2016 - 2022 Co-Chair, Department of Pediatrics Midpoint Promotions Review Committee, University of Colorado
- 2017 - 2022 Medical Director- Pediatric Liver Center, CHCO
- 2017 - 2018 Reviewer, Department of Medicine Outstanding Early Career Scholar Program, University of Colorado School of Medicine
- 2021 Member, Equity Certificate Program, University of Colorado Office of Diversity, Equity and Inclusion and Community Engagement
- 2022 member, Solid Organ Transplant Chief Search Committee, MCW, Froedtert Hosp., Children's WI
- 2022 Member, Surgeon-In-Chief Search Committee, MCW, Children's WI

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

- 2004 - Present Co-Investigator, Childhood Liver Disease Research Network (ChiLDReN)
- 2005 - 2008 Member, NASPGHAN Research Committee
- 2006 Member, NASPGHAN, Nominating Executive Committee
- 2009 - 2012 Chair, NASPGHAN, Hepatology Committee
- 2009 - 2014 Member, Regional Review Board, United Network of Organ Sharing
- 2011 - 2016 Regular Member, Digestive Diseases and Nutrition C Subcommittee of the Diabetes, Digestive and Kidney Diseases Initial Review Group, National Institute of Diabetes, Digestive and Kidney Diseases, NIH, Department of Health and Human Services
- 2012 - 2014 Member, AASLD Finance Committee
- 2013 Member, External Review Committee, University of California, Children's Hospital Los Angeles
- 2013 - 2016 Chair, AASLD Research Awards Committee (co-Chair in 2013)
- 2014 - 2016 Member, AASLD Foundation Board of Trustees
- 2015 - 2017 Chair, AASLD Special Interest Group (SIG) for Pediatric Liver Disorders
- 2017 - 2021 Chair, Data Safety Monitoring Board, Baylor College of Medicine and Texas Children's Hospital
- 2018 Member, AASLD Task Force
- 2018 - 2020 Member, Executive Council for NASPGHAN
- 2018 - 2020 Chair, AASLD Autoimmune Hepatitis Guidelines Committee
- 2018 - Present Chair, ChiLDReN Primary Sclerosing Cholangitis Working Group
- 2018 - Present Ad-hoc member, NIH NIDDK Hepatobiliary Pathophysiology Study Section
- 2020 - 2021 Member, AASLD Nominating Committee
- 2020 - Present Ad-hoc member, NIH NIDDK T32/ T35 Training Study Section.
- 2020 Member, External Review Committee, Children's Hospital of Philadelphia, Fred and Suzanne Biesecker Pediatric Liver Center.
- 2021 Pediatrics Representative, AASLD Scientific Program Committee
- 2022 Pediatrics Representative, AASLD-DDW Scientific Program Committee
- 2022 - 2023 Vice Chair, AASLD Cholestatic & Autoimmune Liver Diseases Special Interest Group

INTERNATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

- 2006 - 2008 Member, World Congress- Federation of International Societies for Pediatric Gastroenterology, Hepatology and Nutrition Hepatology Committee

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title:	Colorado Center for Childhood Liver Disease Research Network- Subcontract
Source:	National Institutes of Health, NIDDK, 5 U01 DK062453
Role:	Co-Investigator
PI:	Sokol RJ

Dates:	09/15/2019 - 09/14/2024
Direct Funds:	\$2,713,290
Title:	Mechanisms of neutrophil extracellular trap formation and contribution to fibrosis in biliary atresia
Source:	National Institutes of Health, NIDDK 5 U01 DK062453; ChiLDReN Translational Science Acceleration Supplement
Role:	PI
Dates:	07/01/2020 - 05/30/2022
Direct Funds:	\$160,000
Title:	Diagnostic Biomarker Discovery in Pediatric Primary Sclerosing Cholangitis
Source:	Pediatric Liver Center Research Fund (patient/ family gift)
Role:	PI
Dates:	08/01/2021 - 07/30/2024
Direct Funds:	\$100,000

Prior

Peer Review

Title:	Immunologic Mechanisms of Biliary Destruction in Biliary Atresia
Source:	National Institutes of Health, NIDDK, K08 DK60710-06
Role:	PI
Dates:	02/01/2002 - 12/30/2006
Direct Funds:	\$500,000
Title:	Role of Cytokines and Autoimmunity in Murine Biliary Atresia
Source:	National Institutes of Health, NIDDK, R03 DK069818-01
Role:	PI
Dates:	09/30/2004 - 08/31/2006
Direct Funds:	\$100,000
Title:	Role of Cytokines and Autoimmunity in Murine Biliary Atresia
Source:	March of Dimes Foundation, Basil O'Connor Starter Scholar Research Award
Role:	PI
Dates:	02/01/2005 - 07/31/2007
Direct Funds:	\$150,000
Title:	Investigation of Pathogenic Autoreactive T cells in Biliary Atresia
Source:	American Liver Foundation, Biliary Atresia Research Initiative Grant
Role:	PI
Dates:	07/01/2006 - 06/30/2008
Direct Funds:	\$200,000

Title:	T Cell-Mediated Mechanisms of Autoimmunity in Murine and Human Biliary Atresia
Source:	National Institutes of Health, NIDDK, 1 R01 DK078195-01
Role:	PI
Dates:	08/01/2007 - 07/30/2012
Direct Funds:	\$922,500

Title:	Colorado Center for Childhood Liver Disease Research Network
Source:	NIH NIDDK; 5 U01 DK062453
Role:	Co-Investigator
Dates:	09/10/2009 - 09/09/2019
Direct Funds:	\$3,933,196

Title:	T Cell-Mediated Mechanisms of Autoimmunity in Murine and Human Biliary Atresia
Source:	National Institutes of Health, NIDDK, NOT-OD09056 Recovery Act Funds for Admin. Suppl.
Role:	PI
Dates:	02/01/2010 - 01/31/2011
Direct Funds:	\$66,900

Title:	Detection of HLA Predominance and Novel Shared Epitopes in Biliary Atresia
Source:	National Institutes of Health, NIDDK, 1 R56 DK087691-01
Role:	PI
Dates:	09/01/2010 - 02/31/2012
Direct Funds:	\$225,000

Title:	A Pilot Withdrawal/Reinstitution Trial
Source:	FDA-OOP, R01 FD003709
Role:	Site PI
Dates:	2010 - 2018

Title:	Determining the importance of B cells to disease onset and progression in biliary atresia
Source:	Children's Hospital Colorado, CHC Research Institute for Bridge Funding
Role:	PI
Dates:	08/01/2012 - 07/30/2013
Direct Funds:	\$100,000

Title:	The Role of Regulatory T Cells in the Pathogenesis of Murine Biliary Atresia
Source:	University of Colorado School of Medicine, Dean's Academic Enrichment Fund for Bridge Funding
Role:	PI
Dates:	08/01/2012 - 07/30/2013
Direct Funds:	\$50,000

Title: Significance of B cells and Humoral Immunity in the Pathogenesis of Biliary Atresia
Source: National Institutes of Health, NIDDK, 1 R01 DK094937-01A1
Role: PI
Dates: 06/01/2014 - 05/31/2019
Direct Funds: \$885,036

Title: Institutional Training Grant in Pediatric Gastroenterology, University of Colorado
Source: National Institutes of Health, NIDDK, 2T32 DK067009
Role: MPI
Dates: 05/01/2015 - 01/31/2022
Direct Funds: \$1,928,845

Title: Establishing an International Database for Pediatric PSC
Source: Primary Sclerosing Cholangitis (PSC) Partners Seeking a Cure
Role: Co-Investigator
Dates: 07/01/2017 - 06/30/2019
Direct Funds: \$100,000

Title: Regulatory T cell dysfunction in biliary atresia
Source: NASPGHAN Foundation/ Takeda Pharmaceutical Products Inc. Research Innovation Award, North American Society of Pediatric Gastroenterology, Hepatology and Nutrition Foundation
Role: PI
Dates: 12/01/2017 - 11/30/2019
Direct Funds: \$150,000

Title: Placebo controlled trial on the use of an ileal apical sodium bile acid transporter inhibitor (ASBTi) in progressive familial intrahepatic cholestasis.
Source: Albireo Company
Role: Site PI
Dates: 05/01/2019 - 01/31/2022

Title: Role of the microbiome in biliary atresia-associated cholangitis
Source: Baylor University, Texas Children's Hospital
Role: Site PI
Dates: 08/01/2019 - 01/31/2022

Title: The crosstalk of neutrophils and stellate cells in biliary atresia
Source: University of Colorado GI & Liver Innate Immune Program

Role:	PI
Dates:	11/01/2019 - 10/31/2021
Direct Funds:	\$25,000
Title:	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 Hepatopertoenterostomy
Source:	Albireo Company
Role:	Site PI
Dates:	12/10/2020 - 01/31/2022

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

- Cara Mack, CHCO Liver Center- Family Symposium, University of CO School of Medicine, "Update on Pediatric Liver Diseases", Denver, Colorado, 2003 - 2004
- Cara Mack, Topic Conferences, Section of Pediatric GI, Hepatology & Nutrition, CHCO, University of CO School of Medicine, Aurora, Colorado. Four individual 1 hour didactic sessions per year focused on a variety of liver disease topics including autoimmune hepatitis, neonatal cholestasis, management of biliary atresia, liver abscesses, infectious hepatitis, portal hypertension., 2003 - 2022
- Cara Mack, Research in Progress, Section of Pediatric GI, Hepatology & Nutrition, CHCO, University of CO School of Medicine, Aurora, Colorado. Bi-annual update on my basic science and clinical research studies., 2003 - 2021
- Cara Mack, Keynote Speaker, American Liver Foundation- local chapter, "Football Walk for Wellness", Denver, Colorado, 2006
- Cara Mack, Department of Neonatology CME Series, CHCO, University of CO School of Medicine. "Neonatal Cholestasis", Aurora, Colorado, 2012
- Cara Mack, CHCO Liver Center- Family Symposium- Riding it out with Liver Disease, "Latest Research in Liver Disease", Aurora, Colorado, 2013
- Cara Mack, "Immunopathogenesis of Biliary Atresia", Mucosal Inflammation Program, Department of Medicine, University of CO School of Medicine, Aurora, Colorado, 2016
- Cara Mack, "The Role of B cells and Humoral Immunity in the Pathogenesis of Biliary Atresia", Mucosal Inflammation Program, Department of Medicine, University of CO School of Medicine, Aurora, Colorado, 2017
- Cara Mack, Presenter, Charting Pediatrics Podcast, CHCO, 2019
- Cara Mack, "Regulatory T cell Dysfunction in Biliary Atresia", Mucosal Inflammation Program, Department of Medicine, University of CO School of Medicine, Aurora, Colorado, 2019
- Cara Mack, Quarterly didactic topic conference presentations to faculty & GI fellows, Topics related to Research in Progress, Clinical Management of Biliary Atresia, AIH, PSC, Neonatal Cholestasis, Other, Children's Wisconsin, Division of Ped. GI, 2022 - Present

Regional

- Cara Mack, The Integrated Department of Immunology Annual Retreat, "Biliary atresia is associated with CD4+ Th1 cell mediated inflammation", Denver, Colorado, 2003
- Cara Mack, Research in Progress, Division of Allergy and Clinical Immunology, Department of Medicine, University of CO School of Medicine, Aurora, Colorado. Bi-annual update on our basic science research studies., 2003 - 2012
- Cara Mack, Research in Progress, Perinatal Research Group, CHCO, University of CO School of Medicine. "Recent Investigations into Mechanisms of Bile Duct Injury in Biliary Atresia", Aurora, Colorado, 2010
- Cara Mack, Research in Progress, Pelanda/Torres Lab Meeting, Department of Immunology, University of CO School of Medicine, Aurora, Colorado. Bi-annual update on our basic science research studies., 2014 - 2018
- Cara Mack, Presenter, Children's Hospital Colorado Virtual CME Webinar, "The Jaundiced Infant- A

National

- Cara Mack, AASLD Annual Meeting, Plenary Session Oral Presentation, "Adoptive transfer of liver T cells from murine biliary atresia results in periductal infiltrates in recipient SCID mice suggesting autoimmune mediated bile duct injury", San Francisco, California, 2005
- Cara Mack, NASPGHAN Annual Meeting, "Meet the Professor" session, "Biliary Atresia", Salt Lake City, Utah, 2005
- Cara Mack, NASPGHAN Annual Meeting, "Meet the Professor" session, "Neonatal Cholestasis", Orlando, Florida, 2006
- Cara Mack, NASPGHAN Annual Meeting, "Meet the Professor" session, "Drug Hepatotoxicity", Salt Lake City, Utah, 2006
- Cara Mack, NIH Workshop: Screening and Outcomes in Biliary Atresia, "Viral and the Immunological Pathogenesis of Biliary Atresia", Bethesda, Maryland, 2006
- Cara Mack, NASPGHAN Annual Meeting, Post-graduate Course- "Treatment Controversies in Biliary Atresia", Orlando, Florida, 2006
- Cara Mack, AASLD Henry and Lillian Stratton Basic Research Single Topic Conference: Pathobiology of Biliary Epithelia and Cholangiocarcinoma, "Cholangiocytes as Targets of Immune-Mediated Injury and Immune Modulators in Biliary Atresia", Atlanta, Georgia, 2008
- Cara Mack, University of Virginia School of Medicine, Department of Pediatrics Grand Rounds, "Current Investigations of Pathogenesis and Optimizing Outcomes in Biliary Atresia", Charlottesville, Virginia, 2008
- Cara Mack, Baylor University School of Medicine, Department of Pediatrics, Pediatric Gastroenterology, Hepatology and Nutrition Research Conference, "Evidence for Virus-Induced Autoimmunity in the Pathogenesis of Biliary Atresia", Houston, Texas, 2009
- Cara Mack, American Academy of Pediatrics, 76th Perinatal & Developmental Medicine Symposium: Gastrointestinal Tract Development and Congenital Anomalies, "Neonatal Cholestasis" and "Evidence for Viral-Induced Autoimmunity in the Pathogenesis of Biliary Atresia", Aspen, Colorado, 2010
- Cara Mack, Pediatric Academic Societies & Asian Society for Pediatric Research Annual Meeting, Recent Advances in Neonatal Cholestatic Disorders, "Biliary Atresia: New Insights into Pathogenesis", Denver, Colorado, 2011
- Cara Mack, Emory University School of Medicine, Department of Pediatrics, Transplant Grand Rounds, "Evidence for Immune-Mediated Bile Duct Injury in the Pathogenesis of Biliary Atresia", Atlanta, Georgia, 2011
- Cara Mack, NASPGHAN Annual Meeting, State of the Art Lecture, "Biliary Atresia: New Insights into Pathogenesis", Orlando, Florida, 2011
- Cara Mack, GI Research Seminar, The Children's Hospital of Philadelphia, Division of Pediatric GI, Hepatology and Nutrition, "Immune dysregulation in the pathogenesis of biliary atresia", Philadelphia, Pennsylvania, 2012
- Cara Mack, NASPGHAN Annual Meeting, Meet the Professor Breakfast, "Career Development for Women in Academic Medicine", Salt Lake City, Utah, 2012
- Cara Mack, Sabin Research Institute Research Symposium, USC Children's Hospital LA, "Deciphering the Role of Adaptive Immunity in the Pathogenesis of Biliary Atresia", Los Angeles, California, 2013
- Cara Mack, Primary Sclerosing Cholangitis Partners Seeking A Cure- 10th Annual Conference: "New Potential Therapies for Pediatric PSC" and "Teens: Every Question is Fair Game", Greenwood Village, Colorado, 2014
- Cara Mack, AASLD Annual Meeting, AASLD Postgraduate Course - Clinical Implications of Inflammation and Immunity in Acute and Chronic Liver Disease, "Biliary Atresia: Mechanisms of Immune-Mediated Biliary Injury and Fibrosis", Boston, Massachusetts, 2014
- Cara Mack, NASPGHAN Annual Meeting, State of the Art Lecture, "Unique Aspects of Neonatal Immunity Provide Clues to Etiology of Biliary Atresia", Washington D.C., 2015
- Cara Mack, AASLD Annual Meeting, NASPGHAN/AASLD Pediatric Liver Disease Symposium, "Mechanisms of Liver Injury in Biliary Atresia", Boston, Massachusetts, 2016
- Cara Mack, Mayo Clinic Rochester, Department of Pediatrics Grand Rounds, "Unique Aspects of the Neonatal Immunity Provide Clues to Etiology of Biliary Atresia", Rochester, Minnesota, 2016
- Cara Mack, Childhood Liver Disease Research Network, "Autoantibody Microarray to Identify Autoantibodies in Biliary Atresia", Alexandria, Virginia, 2016

Cara Mack, AASLD/FDA Conference on Trial Design and Endpoints for Clinical Trial in Adults and Children with Primary Sclerosing Cholangitis, "A Critical Appraisal of Biomarkers That Can Be Used to Identify Subpopulations in Pediatric PSC", Silver Spring, Maryland, 2016

Cara Mack, NIH/ NIDDK Workshop. Biliary Atresia: A Clinical and Translational Science Research Workshop, "Autoimmunity in Biliary Atresia", Bethesda, Maryland, 2017

Cara Mack, AASLD Annual Meeting, Early Morning Workshop, "Update on Evidence for Pathogenesis of Biliary Atresia", Washington D.C., 2017

Cara Mack, NASPGHAN Annual Meeting, Post Graduate Course, "Update on Diagnostic and Prognostic Biomarkers and Therapeutic Interventions in Biliary Atresia", Las Vegas, Nevada, 2017

Cara Mack, NASPGHAN Annual Meeting, "Meet the Professor" session, "Diagnostic Workup of Neonatal Cholestasis", Las Vegas, Nevada, 2017

Cara Mack, AASLD Annual Meeting, Early Morning Workshop, "New Insights in Management of Primary Sclerosing Cholangitis", San Francisco, California, 2018

Cara Mack, Childhood Liver Disease Research Network, "Clinical Trial Design for Pediatric Primary Sclerosing Cholangitis", Alexandria, Virginia, 2018

Cara Mack, NASPGHAN Annual Meeting, Early Morning Workshop session, "Career Development and Promotion", Hollywood, Florida, 2018

Cara Mack, AASLD Annual Meeting, AASLD Postgraduate Course, "Biliary Atresia: Biomarkers of Disease and Predictors of Outcome", Boston, MA, 2019

Cara Mack, NASPGHAN Annual Meeting, Single Topic Symposium, Chronic Liver Disease Management for the General Gastroenterologist, "Group Discussion of Difficult Cases", Chicago, IL, 2019

Cara Mack, NASPGHAN Annual Meeting, Concurrent Session- Chronic Hepatitis, "Regulatory T Cell Dysfunction in Biliary Atresia", Chicago, IL, 2019

Cara Mack, NASPGHAN Annual Meeting, Meet the Professor session, "Autoimmune Hepatitis", Chicago, IL, 2019

Cara Mack, 7th Annual Pediatric IBD Research Day, Weill Cornell Medicine, "Pathophysiology of Liver Disease in IBD", NY, NY, 2019

Cara Mack, PSC Partners Seeking a Cure, Webinar Series, "Update on Pediatric PSC", <https://youtu.be/AyC7d6QfBjw>, Denver, CO, 2020

Cara Mack, NASPGHAN Annual Meeting, Concurrent Session- Guidelines, "AASLD Guidance and Guidelines for AIH in Adults and Children", Virtual Meeting, 2020

Cara Mack, PFIC Advocacy and Research Network, PFIC 101 Webinar, Organizer and Speaker for 2 talks: "PFIC 101: How genetic mutations lead to disease", "Clinical Trial Considerations and Future Therapies for PFIC", Virtual Meeting, 2020

Cara Mack, AASLD Annual Meeting, Cholestatic and Autoimmune Liver Diseases Special Interest Group Session, "What Is New in Pediatric PSC", Virtual Meeting, 2020

Cara Mack, AASLD/ NASPGHAN Pediatric Symposium, "Approach and Treatment of Typical Cases of Autoimmune Hepatitis", AASLD- The Liver Meeting, Virtual Meeting, 2021

Cara Mack, The Second Annual Pediatric Liver Disease and Transplantation Symposium, Advance Management of Biliary Atresia Webinar, Columbia University Irving Medical Center, "Innate Immune Activation in the Pathogenesis of Biliary Atresia", Virtual Meeting, 2021

Cara Mack, The Autoimmune Hepatitis Association Conference, "Guidelines for AIH- How we create them and why we need them", Indianapolis, IN, Virtual Meeting, 2021

Cara Mack, AAP 4th Year Transplant Hepatology Fellowship Program, "Update on Management of AIH and PSC", Virtual Meeting, 2022

International

Cara Mack, NASPGHAN Annual Meeting, Post-graduate Course- "Optimizing Outcomes in Biliary Atresia", Montreal, Canada, 2003

Cara Mack, NASPGHAN Annual Meeting, "Meet the Professor" session, "Portal Hypertension", Montreal, Canada, 2003

Cara Mack, Division of Pediatric GI, Hepatology and Nutrition Research Seminar, "Immunopathogenesis of Biliary Atresia", Sick Children's Hospital and University of Toronto, Toronto, Canada, 2008

Cara Mack, 7th International Sendai Symposium on Biliary Atresia, "Update on Investigations Pertaining to the Pathogenesis of Biliary Atresia", Sendai Conference on Biliary Atresia, Sendai, Japan, 2017

Cara Mack, Juntendo University Graduate School of Medicine, Department of Pediatrics Visiting Professor, "Unraveling the Pathogenesis of Biliary Atresia in Order to Optimize Outcomes", Tokyo, Japan, 2017

Cara Mack, National Taiwan University Children's Hospital, Department of Pediatrics Visiting Professor, "Recent Investigations in the Immunopathogenesis of Biliary Atresia", Taipei, Taiwan, 2018

Cara Mack, Annual Meeting of the Taiwan Society of Pediatric Gastroenterology, Hepatology and Nutrition, "Recent Advances in the Management of Cholestatic Liver Diseases in Children", Tainan, Taiwan, 2018

Cara Mack, Sick Kids Hospital Gastroenterology, Hepatology and Nutrition Research Day, "Recent Advances in Deciphering the Immunopathogenesis of Biliary Atresia", Toronto, Canada, 2019

Cara Mack, Sick Kids Hospital Gastroenterology, Hepatology and Nutrition Research Day, "Faculty Leader: Poster Walks- Liver Disease Research", Toronto, Canada, 2019

Cara Mack, World Congress of Pediatric Gastroenterology, Hepatology and Nutrition, "Biliary Atresia- Closer to Pathogenesis", Virtual Meeting, 2021

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

National

SEE ABOVE UNDER INVITED LECTURES/WORKSHOPS/PRESENTATIONS

COMMITTEE SERVICE:

Hospital

See Local/ Regional Committee Positions above for information on committees associated with hospital/ university

EXTRAMURAL TEACHING:

Medical Student Education

08/01/2002 - 01/31/2022 University of Colorado School of Medicine, -Bi-annual presentation of case studies in gastrointestinal pathophysiology (small group discussions) -Lectures (10 times/year) to students on GI in-service rotations

Resident and Fellow Education

08/01/2002 - 01/31/2022 Children's Hospital Colorado, Residents - Lectures (10 times/year) to interns and residents on GI in-service rotations GI fellows -Quarterly formal lectures on pediatric liver diseases, Fellows' Core Lecture Series, Section of GI & Hepatology Ward/clinic attending duties: Supervision and bedside teaching of medical students, residents and GI fellows, Inpatient Service, 10 weeks per year and outpatient Liver Clinic, 6-8 clinics/month

02/01/2022 - Present Children's Wisconsin, Medical College of Wisconsin, Residents - Lectures to interns and residents on Hepatology inpatient rotations GI fellows -Quarterly formal lectures on pediatric liver diseases, Fellows' Core Lecture Series, Section of GI & Hepatology Ward/clinic attending duties: Supervision and bedside teaching of medical students, residents and GI fellows, Inpatient Service, 8 weeks per year and outpatient Liver Clinic, 4 clinics/month

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:

Undergraduate Students

Matthew Smith, University of Colorado School of Medicine, 06/01/2011 - 08/30/2011 research advisor, Identification of complement in experimental biliary atresia

Melissa Berg, University of Colorado School of Medicine, 06/01/2013 - 08/30/2013 research advisor, Identification of innate immune cytokines in biliary atresia

Ilona Schwarz, University of Colorado School of Medicine, 06/01/2016 - 08/30/2016 research advisor, Assessment of changes in bile acid transporter in response to liver virus infection

Caroline Smith, University of Colorado School of Medicine, 06/01/2017 - 08/30/2018 research advisor, 1 publication

Medical Students

Juri Boguniewicz, University of Colorado, 03/01/2009 - 05/30/2013 research advisor, publication- IVIg

treatment in biliary atresia

Graduate Students

MS Committees

Julia Boster, University of Colorado School of Medicine, 06/01/2018 - 05/30/2020 Outcomes of hepatoblastoma and liver transplant, 1 publication

Sarah Kemme, University of Colorado School of Medicine, 06/01/2020 - 05/30/2021 CMV infection and outcomes in biliary atresia, 1 MIP

MS Students Advised

Dor Yoeli, University of Colorado School of Medicine, 05/01/2021 - 05/30/2022 Role of galectin-3 in biliary atresia, 1 MIP

Postdoctoral Students

Fabian Wehrmann, MD, University of Colorado School of Medicine, 09/01/2007 - 05/30/2009 research advisor, research project: "Determine antigen specificity and effector function of autoantibodies generated from B cell hybridomas in murine biliary atresia"

Clinical/Research Fellows

Barrett Barnes, University of Colorado School of Medicine, 07/01/2005 - 06/30/2007 research advisor, 1 publication

Brandy Lu, University of Colorado School of Medicine, 07/01/2007 - 06/30/2009 research advisor, 1 publication

Amy Feldman, University of Colorado School of Medicine, 07/01/2011 - 06/30/2013 research advisor, 1 publication

Melissa Sheiko, University of Colorado School of Medicine, 06/01/2013 - 06/01/2015 research advisor, 1 publication

27 fellows trained, University of Colorado School of Medicine and Children's Hospital Colorado, 07/01/2013 - 01/31/2022 career advisement and scholarship oversight based on director of fellowship role and T32 program director, 80% of fellow grads remain in academics; 30% remain in research related careers

Joseph Bednarek, University of Colorado School of Medicine, 07/01/2015 - 07/30/2019 research advisor, 2 publications; attainment of graduate school admission

Dania Brigham, University of Colorado School of Medicine, 07/01/2015 - 06/30/2017 research advisor, 1 publication

Sarah Kemme, University of Colorado School of Medicine, 07/01/2021 - 06/01/2022 Sarah Kemme, 1 MIP

Residents

Brandy Lu, University of Colorado School of Medicine, 08/01/2005 - 12/30/2005 research advisor, 1 publication

Jillian Mayer, University of Colorado School of Medicine, 05/01/2015 - 08/01/2017 research advisor, 1 publication

Michelle Corrado, University of Colorado School of Medicine, 03/01/2020 - 06/01/2021 research advisor, Role of HMGB1 in innate immune activation in biliary atresia

Dor Yoeli, University of Colorado School of Medicine, 05/01/2021 - 06/01/2022 research advisor, 2021 CU CCTSI Team Oriented Training Across Translational Sciences TL1 Award. 2021 AASLD Emerging Liver Scholar award.

Faculty

Richard Hendrickson, University of Colorado School of Medicine, 01/01/2005 - 01/01/2006 research advisor, 1 publication

Jonathan Roach, University of Colorado School of Medicine, 08/01/2014 - 08/01/2018 research advisor, 1 publication

PROGRAMMATIC DEVELOPMENTS:

Educational Programs

Fellow

2007 - 2016 2007, 2008, 2009, 2016 Faculty, NASPGHAN Peds GI Fellows Confs.

2013 - 2022 Director- Fellowship Training Program, Section of Pediatric Gastroenterology, Hepatology and Nutrition. Maintenance of T32 training grant.

Faculty

2011 Course Director of AASLD/NASPGHAN symposium, Update on Pediatric Autoimmune Liver Diseases, AASLD Annual Meeting, San Francisco, CA

2014 Course Director and Moderator: Special Interest Group Symposium, AASLD Annual Meeting, Controversies in the Management of Primary Sclerosing Cholangitis in Children and Adults, Boston, MA

COMMUNITY SERVICE ACTIVITIES:

2003 - 2004 Speaker at "Update on Pediatric Liver Diseases", The Children's Hospital Liver Center, weekend symposium for families of children with liver disease, Denver, CO

2006 Keynote Speaker, American Liver Foundation- local chapter, "Football Walk for Wellness" Fundraiser Event, Denver, CO

2012 - 2013 Organizer of Children's Hospital Colorado team for local annual fundraising event for liver research: "Kickin' for Kids" kickball tournament, Boulder, CO

2013 Speaker at CHCO Liver Symposium for families with pediatric liver disease ("Riding it out with Liver Disease"). Didactic lecture on "Latest Research in Liver Disease", Aurora, CO

2014 Speaker at the PSC Partners Seeking A Cure 10th Annual Conference: "New Potential Therapies for Pediatric PSC" and "Teens: Every Question is Fair Game", Denver, CO

2018 Speaker, American Liver Foundation/ Digestive Health Institute/ CHCO "Pediatric Liver Center: Ask the Experts", June 30, 2018.

2019 Speaker, Progressive Familial Intrahepatic Cholestasis Advocacy and Resource Network, Inc. and Albireo Company. Video presentation to increase awareness of PFIC disease in community.

2020 Speaker, Progressive Familial Intrahepatic Cholestasis Advocacy and Resource Network, Inc. and Albireo Company. Video presentation to increase awareness of impact of PFIC disease on patients and family

2020 Speaker, PSC Partners Seeking a Cure Podcast on Pediatric PSC:

https://www.dropbox.com/s/tl4z9nym3mtwom2/episode_19_dr.%20cara%20mack.mp3?dl=0

2021 Moderator, PSC Partners Seeking a Cure, ROADMAP webinar, "The PSC Research Landscape: Now and Into the Future: Identifying Research Questions"

2021 Speaker, Children's Hospital Colorado Provider Education Video, "Update on Management of Autoimmune Hepatitis" (CHCO website and YouTube)

2021 Moderator, PSC Partners Seeking a Cure, ROADMAP webinar, "The PSC Research Landscape: Now and Into the Future: Five Concepts in PSC"

GLOBAL HEALTH ACTIVITIES:

2016 Volunteer- surgical assistant, Northwest Haiti Christian Medical Mission, June 19-25, 2016.

2017 Volunteer- general pediatric care in rural settings, Northwest Haiti Christian Medical Mission, June 12-24, 2017.

BIBLIOGRAPHY**Refereed Journal Publications/Original Papers**

1. **Mack CL**, Millis JM, Whittington PF, and Alonso EM Pulmonary Complications Following Liver Transplantation in Pediatric Patients. *Pediatr Transplant* 2000;4:39-44. PMID: 10731057
2. **Mack CL**, Kavorik P and Emerick KM. Early Speech Delay and Hepatitis as Presenting Signs of Homocystinuria, *J Pediatr Gastroenterol Nutr* 2001;33(2):221-23.
3. **Mack CL**, Ferrario M, Abecassis M, Whittington PF, Superina RA, Alonso EM. Living Donor Liver

- Transplantation for Children in Liver Failure and Concurrent Multiple Organ System Failure. *Liver Transplant* 2001;7:890-895. PMID: 11679988.
4. **Mack CL**, Superina RA, Whittington PF. Surgical Restoration of Portal Flow Corrects Procoagulant and Anticoagulant Deficiencies Associated with Extrahepatic Portal Vein Thrombosis. *J Peds* 2003;142(2):197-9. PMID: 12584545
 5. **Mack CL**, Neville K, Miller SD. Microglia are Transformed into Competent Antigen Presenting Cells and Effector Cells in a Murine Model of Multiple Sclerosis. *J Neuroimmun* 2003;144(1-2):68-79. PMID: 14597100
 6. Zhang DY, Sabla G, Shivakumar P, Tiao G, Sokol RJ, Mack C, Shneider BL, Aronow B, Bezerra JA. Coordinate expression of regulatory genes differentiates embryonic and perinatal forms of biliary atresia. *Hepatology* 2004;39(4):954-62. PMID: 15057899
 7. **Mack CL**, Tucker R, Sokol RJ, Karrer FM, Kotzin B, Whittington PF, Miller SD. Biliary Atresia is Associated with CD4+, Th1 Cell Mediated Portal Tract Inflammation. *Pediatr Res* 2004; 56(1):79-87. PMID: 15128911, PMCID: PMC1948976
 8. Whittington PF, Malladi P, Melin-Aldana H, Azzam R, **Mack CL** and Sahai A. Expression of osteopontin correlates with portal biliary proliferation and fibrosis in biliary atresia. *Pediatr Res* 2005;57(6):837-844. PMID: 15845635
 9. **Mack CL**, Tucker RM, Sokol RJ, Kotzin BL. Armed CD4+ Effector Cells and Activated Macrophages Participate in Bile Duct Injury in Murine Biliary Atresia. *Clin Immunol* 2005;115(2):200-209. PMID: 15885644, PMCID: PMC1950158
 10. **Mack CL**, Zelko FA, Lokar J, Superina RM, Alonso EM, Blei AT and Whittington PF. Surgically Restoring Portal Blood Flow to the Liver in Children with Primary Extrahepatic Portal Vein Thrombosis Improves Fluid Neurocognitive Ability. *Pediatrics* 2006;117(3):405-412. PMID: 16481447
 11. Whitworth JR, **Mack CL**, O'Connor JA, Narkewicz MR, Mengshol S, Sokol RJ. Acute hepatitis and liver failure associated with influenza A infection in children. *J Pediatr Gastroenterol Nutr* 2006;43(4):536-8. PMID: 17033532
 12. **Mack CL**, Tucker RM, Lu BR, Sokol RJ, Fontenot AP, Ueno Y and Gill RG. Cellular and Humoral Autoimmunity Directed at Bile Duct Epithelia in Murine Biliary Atresia. *Hepatology* 2006;44:1231-1239. PMID: 17058262, PMCID: PMC1948978
 13. Tucker RM, Hendrickson RJ, Mukaida N, Gill RG and **Mack CL**. Progressive Biliary Destruction in the Absence of a Functional Tumor Necrosis Factor-alpha Pathway in a Murine Model of Biliary Atresia. *Viral Immunol* 2007;20(1):34-43. PMID: 17425419, PMCID: PMC1978183
 14. **Mack CL**, Falta MT, Sullivan AK, Karrer F, Sokol RJ, Fontenot AP, Oligoclonal Expansions of CD4+ and CD8+ T Cells in the Target Organ of Patients with Biliary Atresia. *Gastroenterology*. 2007;133(1):278-287. PMID: 17631149, PMCID: PMC1949019
 15. Sokal EM, Goldstein D, Ciocca M, Lewindon P, Ni YH, Silveira T, Sibal A, Dhawan A, Mack C, Bucuvalas J; End-Stage Liver Disease Working Group. End-stage liver disease and liver transplant: current situation and key issues. *J Pediatr Gastroenterol Nutr* 2008;47(2):239-46.
 16. Barnes BH, Tucker RM, Wehrmann F, Mack DG, Ueno Y, **Mack CL**. Cholangiocytes as immune modulators in rotavirus-induced murine biliary atresia. *Liver Int* 2009;29(8):1253-61. PMID: 19040538, PMCID: PMC3783657
 17. Rand EB, Karpen SJ, Kelly S, **Mack CL**, Malatack JJ, Sokol RJ, Whittington PF. Treatment of neonatal hemochromatosis with exchange transfusion and intravenous immunoglobulin. *J Pediatr* 2009;155(4):566-71. PMID: 19560784
 18. Lu BR, Brindley SM, Tucker RM, Lambert CL, **Mack CL**. Alpha-enolase autoantibodies cross-reactive to viral proteins in a mouse model of biliary atresia. *Gastroenterology* 2010; 139(5):1753-61. PMID: 20659472, PMCID: PMC3792016
 19. Law YM, **Mack CL**, Sokol RJ, Rice M, Parsley L, Ivy D. Cardiopulmonary manifestations of portovenous shunts from congenital absence of the portal vein: Pulmonary hypertension and pulmonary vascular dilatation. *Pediatr Transplant* 2011;15(8):E162-8. PMID: 20565694, PMCID: PMC3203339
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 21. Tucker RM and **Mack CL**. Generation of a cholangiocytes specific cDNA expression library for the identification of B and T cell autoantigens in murine biliary disease. *Hepatol Res* 2012;42(5):502-7. PMID: 22236071, PMCID: PMC3798039
 22. **Mack CL**, Gonzalez-Peralta RP, Gupta N, Leung D, Narkewicz MR, Roberts EA, Rosenthal P, Schwarz KB.

- North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Practice Guidelines: Diagnosis and Management of Hepatitis C Infection in Infants, Children and Adolescents. *J Pediatr Gastroenterol Nutr* 2012;54(6):838-55. PMID: 22487950
23. **Mack CL**, Anderson KM, Aubrey MT, Rosenthal P, Sokol RJ, Freed BM. Lack of HLA predominance and HLA shared epitopes in biliary Atresia. *SpringerPlus* 2013;2(1):42. PMID: 23505615, PMCID: PMC3595468
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 26. Feldman AG, Tucker RM, Fenner EK, Pelanda R, **Mack CL**. B cell deficient mice are protected from biliary obstruction in the rotavirus-induced mouse model of biliary atresia. *PLoS One*. 2013;8(8):e73644. PMID: 23991203, PMCID: PMC3749125
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 29. Fenner E, Boguniewicz J, Tucker RM, Feldman A, **Mack CL**. High dose intravenous immunoglobulin abrogates biliary obstruction in a mouse model of biliary atresia. *Pediatr Res* 2014;76(1):72-80. PMID: 24727948. PMCID: PMC4062601
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 33. Shneider BL, Magee JC, Karpen SJ, Rand EB, Narkewicz MR, Bass LM, Schwarz K, Whittington PF, Bezerra JA, Kerkar N, Haber B, Rosenthal P, Turmelle YP, Molleston JP, Murray KF, Ng VL, Wang KS, Romero R, Squires RH, Arnon R, Sherker AH, Moore J, Ye W, Sokol RJ; Childhood Liver Disease Research Network (ChiLDReN;...Mack C...). Total Serum Bilirubin within 3 Months of Hepatopertoenterostomy Predicts Short-Term Outcomes in Biliary Atresia. *J Pediatr*.

- 2016;170:211-217. PMID: 26725209
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Editorials, Letters to Editor, Other

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 43. D. Molla Hosseini, R. Howison, Q.Z. Li, C.L. Mack. Identification of autoantibodies in biliary atresia: autoantigen microarray technology. Poster presentation, Biliary Atresia: A Clinical and Translational Science Research Workshop, NIH, June 2017, Bethesda, MD.
 44. J. Bednarek, B. Traxinger, D. Molla Hossieni, R. Pelanda, C.L. Mack. Dual Role of B cells in the T cell-mediated bile duct injury of murine biliary atresia. Poster presentation, Biliary Atresia: A Clinical and Translational Science Research Workshop, NIH, June 2017, Bethesda, MD.
 45. S. Kim, J. Moore, R.J. Sokol, C. Spino, J. Moore, J.A. Bezerra, P.F. Whittington, S.J. Karpen, K.M. Loomes, V.L. Ng, V.L. Venkat, K.S. Wang, C.J. Goodhue, A.H. Sherker, J.C. Magee, and C.L. Mack. Correlation of immune markers with short-term outcomes in biliary atresia following IVIg treatment. Poster presentation, AASLD, October 2017, Washington D.C.
 46. S. Kim, J. Moore, R.J. Sokol, C. Spino, J. Moore, J.A. Bezerra, P.F. Whittington, S.J. Karpen, K.M. Loomes, V.L. Ng, V.L. Venkat, K.S. Wang, C.J. Goodhue, A.H. Sherker, J.C. Magee, and C.L. Mack. Correlation of immune markers with short-term outcomes in biliary atresia following IVIg treatment. Poster presentation, NASPGHAN, Nov. 2017, Las Vegas, NV.
 47. *B. Shneider, ... C.L. Mack et al. Results of ITCH, A Multi-center Randomized Double-blind Placebo-controlled Trial of Maralixibat, an Ileal Apical Sodium-dependent Bile Acid Transporter Inhibitor (ASBTi), for Pruritus in Alagille Syndrome (ALGS). Oral presentations, AASLD, 2017, Washington D.C. and NASPGHAN, 2017, Las Vegas
 48. B. Kamath, ... C.L. Mack et al. Unraveling the Relationship between Itching, Scratch Scales and Biomarkers

- in Children with Alagille Syndrome. Poster presentation, AASLD, 2017, Washington D.C.
49. *R. Thompson, ... C.L. Mack, et al. Phase 2 open-label efficacy and safety study of the apical sodium-dependent bile acid transporter inhibitor maralixibat in children with progressive familial intrahepatic cholestasis: 48-week interim efficacy analysis. Oral presentation, AASLD, 2017, Washington D.C.
 50. *M. Deneau, ... C. Mack et al. Improvement in GGT predicts event-free survival in primary sclerosing cholangitis regardless of ursodeoxycholic acid treatment: data from the Pediatric PSC Consortium. Oral presentation, AASLD, 2017, Washington D.C.
 51. M. Deneau, ... C. Mack et al. Validating the Mayo model of primary sclerosing cholangitis outcomes in children: data from the Pediatric PSC Consortium. Poster presentation, AASLD, 2017, Washington D.C.
 52. D.D. Black, C.L. Mack, N. Kerkar, et al. Initial results of the WUPPSC study- prospective multicenter withdrawal of UDCA in pediatric PSC. Poster presentation, DDW, 2018, Washington D.C.
 53. M. Deneau, ... C.L. Mack, et al. Variability in Diagnostic and Therapeutic Strategies for Pediatric Primary Sclerosing Cholangitis between Centers in the Pediatric PSC Consortium, Poster presentation, AASLD, 2018, San Francisco, CA
 54. *M. Deneau, C.L. Mack, et al. Clinical Outcomes of Oral Vancomycin Therapy for Children with Primary Sclerosing Cholangitis in the Pediatric PSC Consortium, Oral presentation, AASLD, 2018, San Francisco, CA
 55. M. Bannerman, C.L. Mack, et al. Inflammation Drives microRNA Expression to Limit Hepatocyte Bile Acid Synthesis and Transport in the Biliary Atresia Mouse Model, Poster presentation, *Poster of Distinction, AASLD, 2018, San Francisco, CA
 56. *V. Venkat,... C.L. Mack, et al. Predictors of Outcome in Children with Biliary Atresia Surviving with Native Liver at Two Years of Age, Oral presentation, AASLD, 2018, San Francisco, CA
 57. *D.D. Black, C.L. Mack, N. Kerkar, et al. Results of the WUPPSC study: prospective multicenter withdrawal of ursodeoxycholic acid in pediatric primary sclerosing cholangitis, Oral presentation, NASPGHAN, 2018, Hollywood, FL.
 58. *R. Thompson, D. Kelly, S. Rajwal, A. Miethke, N. Soufi, C. Rivet, I. Jankowska, C. Mack, T. Jaeckin, R.H. Squires, K.M. Loomes. Growth analysis in children with PFIC treated with the ASBT inhibitor maralixibat. Oral presentation, EASL International Liver Congress, 2019, Vienna, Austria.
 59. Y. Luo, D. Brigham, J. Bednarek, R. Torres, C. Mack. Cholangiocyte-specific IgM autoantibodies correlate with poor outcome in biliary atresia. *Poster presentation with Distinction, AASLD Annual Meeting, 2019, Boston, MA.
 60. *M. Martinez,... C. Mack... M. Deneau. Primary sclerosing cholangitis immune reactivity pre-transplant is a predictor of recurrent disease after liver transplantation. *Oral presentation, AASLD Annual Meeting, 2019, Boston, MA.
 61. *J. Bednarek, Y. Luo, R. Torres, C.L. Mack. Biliary atresia is associated with regulatory T cell abnormalities and Treg enhancer therapy attenuates disease in murine BA. *Oral presentation, AASLD Annual Meeting, 2019, Boston, MA.
 62. *K. Loomes,... C. Mack... R. Thompson. Genotype and dose-dependent response to maralixibat in patients with bile salt export pump deficiency. *Oral presentation, AASLD Annual Meeting, 2019, Boston, MA.
 63. Kemme, S, Brigham D, Feldman A, Stahl M, Nakano T, Mack C. Immunosuppressive Therapy and Outcomes of Severe Seronegative Immune-Mediated Hepatitis and Aplastic Anemia. Poster presentation, NASPGHAN Annual Meeting. 2019, Chicago, IL.
 64. *K. Loomes,... C. Mack... R. Thompson. Analysis from Phase 2 INDIGO study demonstrates transplant-free survival for pediatric patients with PFIC2. *Late-breaking abstract oral presentation, Digital International Liver Congress (EASL), August 2020.
 65. J. Hochberg, ...C. L. Mack..., M. Deneau. Pediatric PSC is Associated with Poor Outcomes in Racial/Ethnic Minorities. Poster Presentation, AASLD The Liver Meeting, November 2020, Virtual.
 66. *B.L. Shneider,.... C.L. Mack, ...R.J. Sokol. Preliminary Analysis of ITCH and IMAGINE II- Outcome of Long Term Administration of Maralixibat in Children with Alagille Syndrome. *Oral Presentation, AASLD The Liver Meeting, November 2020, Virtual.
 67. D. Yoeli, Z. Wang, Y. Luo, A. Chaidez, M. Adams, C. Huang, C. Mack, N. Alvarez. Galectin-3 levels in clinical and murine models of pediatric cholestatic liver disease. American Society for Transplantation Annual Meeting 2021, Virtual.
 68. *R.J. Thompson, H.J. Verkade, E. Gonzalès, S. Karpen, C. Mack, K. Loomes, L. Kjems, P. Horn, Long-term Treatment Benefits of Odevixibat, an Ileal Bile Acid Transporter Inhibitor, in Children With

- Progressive Familial Intrahepatic Cholestasis: Secondary and Exploratory Efficacy Outcomes During the Phase 3 PEDFIC 1 and PEDFIC 2 Studies, Oral Presentation, 6th World Congress of Pediatric Gastroenterology, Hepatology and Nutrition, June 2021, Virtual.
69. *Y. Luo, A. Chaidez, C. Shearn, A. McKee, C.L. Mack. Neutrophil Activation in Biliary Atresia. Oral presentation. Childhood Liver Disease Research Network Scientific Meeting, September 2021, Virtual.
 70. *Y. Luo, A. Chaidez, C. Shearn, A. McKee, C.L. Mack. Neutrophil Activation in Biliary Atresia. Poster presentation- Chosen presentation for Pediatric Liver Disorders Special Interest Group Poster Debrief Session. AASLD- The Liver Meeting, November 2021, Virtual.
 71. D. Yoeli, Y. Luo, A. Chaidez, Z. Wang, M.A. Adams, C.A. Huang, C.L. Mack, N. Navarro-Alvarez. Galectin-3 as a biomarker and potential therapeutic target in biliary atresia. Poster presentation. AASLD- The Liver Meeting, November 2021, Virtual.
 72. *A. Chaidez, M. Lovell, Z. Pan, K. Rivas, J. Boster, R. Sokol, S. Sundaram, C. Mack. FibroScan correlates with ISHAK fibrosis stage in pediatric liver disease and FibroScan-AST predicts severity of pediatric NAFLD. Oral presentation- Pediatric Hepatology: Metabolic and Genetic Diseases. Parallel Session. AASLD- The Liver Meeting, November 2021, Virtual.
 73. M.R. Deneau, J.P. Stevens, E.R. Perito,... C.L. Mack, et al. and the Pediatric PSC Consortium. Immunosuppression did not alter outcomes in pediatric PSC with AIH overlap. Poster presentation. AASLD- The Liver Meeting, November 2021, Virtual.
 74. J. Stevens, N. Gupta, ... C. Mack, et al. and the Pediatric PSC Consortium. The role of liver biopsy in the diagnosis and prognosis of pediatric PSC and autoimmune hepatitis overlap. Poster presentation. AASLD- The Liver Meeting, November 2021, Virtual.
 75. S. Taylor, S. Harpavat, K.D. Gromer, S.J. Karpen, E. M. Alonso, C.L. Mack, Serum levels of 3 cytokines in BA at the time of Kasai portoenterostomy are associated with future outcomes. Poster presentation. AASLD- The Liver Meeting, November 2021, Virtual.
 76. *E. Gonzales,... C.Mack, et al. Relationships between changes in autotaxin, pruritus, and serum bile acids after odeixibat treatment in patients with PFIC: data from a pooled analysis. Oral presentation- Pediatric Hepatology: Metabolic and Genetic Diseases Parallel Session. AASLD- The Liver Meeting, November 2021, Virtual.
 77. *S. Khushal, ... C. Mack et al. and the Pediatric PSC Consortium. IBD after liver transplantation in children with PSC. Oral presentation- Clinical/ Translational Research in Pediatric Hepatology Parallel Session. AASLD- The Liver Meeting, November 2021, Virtual.