

Curriculum Vitae and Bibliography

Harmeet Malhi, MBBS

Personal Information

Citizenship: United States of America
Work Address: Mayo Clinic Rochester
200 First St SW
Rochester, MN 55905-0001
507-284-2468
Email Address: Malhi.Harmeet@mayo.edu

Present Academic Rank and Position

Teaching/Examining Privileges in Clinical & Translational Sci. - Mayo Clinic Graduate School of Biomedical Sciences, Mayo Clinic College of Medicine and Science 07/2013 - Present

Consultant - Division of Gastroenterology and Hepatology, Department of Internal Medicine, Mayo Clinic, Rochester, Minnesota 01/2014 - Present

Associate Professor of Medicine - Mayo Clinic College of Medicine and Science 11/2016 - Present

Associate Professor of Physiology - Mayo Clinic College of Medicine and Science 11/2016 - Present

Education

Delhi Public School 1985 - 1991

University College of Medical Sciences, University of Delhi - MB BS 1991 - 1996

Albert Einstein College of Medicine - Research Associate 10/1998 - 06/2001

Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine - Resident 06/2001 - 06/2004

Clinician-Investigator Program, Programs in Rochester, Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine - Fellow 06/2004 - 09/2007

Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine - Fellow, Advanced Hepatology 10/2007 - 10/2008

Univeristy of Michigan, Ann Arbor, Michigan - Post Doctoral Fellowship 04/2009 - 06/2011

Division of Gastroenterology and Hepatology, Department of Internal Medicine, Mayo Clinic College of Medicine, Rochester, Minnesota - Mayo Clinic Scholar 04/2009 - 07/2011

Certification

Board Certifications

American Board of Internal Medicine (ABIM)

Internal Medicine 2004 - 2014
Gastroenterology 2007 - 2027
Transplant Hepatology 2008 - 2018

Educational Commission for Foreign Medical Graduates (ECFMG)

ECFMG Certificate

United States Medical Licensing Examination (USMLE)

Step I	1997 - Present
Step II	1997 - Present
Step III	1997 - Present

Licensure

Minnesota	(Medical)
India	Medical Council of India (Medical)

Honors and Awards

Col. Barkat Narain Award for Ranking First in Physiology - University of Delhi	01/1992
College Merit Certificates for Ranking First in 12 Out of a Total of 13 Subjects, and Second in Anatomy - University of Delhi	01/1992
K.L. Gulati Award for Ranking First in Physiology - University of Delhi	01/1992
Pallab Chaudhari Award for Ranking First in Microbiology - University of Delhi	01/1994
Dr. Abhijeet Malhotra Memorial Award for First Position in the Final Professional MBBS Examination - University of Delhi	01/1995
Dr. L.V. Pathak Award for Ranking First in Obstetrics and Gynecology - University of Delhi	01/1995
Dr. Vidya Jerath Award for Ranking First in Preventive and Social Medicine - University of Delhi	01/1995
Gold Medal for Being the Best Graduate of 1995 - Delhi Medical Association	01/1995
K. Sridharan Award for Ranking First in Ophthalmology - University of Delhi	01/1995
L. Hardhian Singh Jain Memorial Medal for Best Medical Graduate - University of Delhi	01/1995
Major Ashwini Kumar Kanva Memorial Award for Ranking First in Preventive and Social Medicine - University of Delhi	01/1995
Prasant Chandra Chaudhari Memorial Award for Best Medical Graduate - University of Delhi	01/1995
R. Vishwanathan Award for Ranking First in Medicine - University of Delhi	01/1995
R. Vishwanathan Gold Medal for Academic Excellence Throughout Medical Schooling - University of Delhi	01/1995
Rukmani Gopalakrishnan Memorial Medal for Ranking First in Surgery - University of Delhi	01/1995
Sharda Vishwanathan Award for Ranking First in Obstetrics and Gynecology - University of Delhi	01/1995
Smt. Ram Pyari and Laxmi Narayan Chugh Memorial Award for Ranking First in Medicine - University of Delhi	01/1995
Distinction in Physiology, Biochemistry, Pharmacology and Microbiology - University of Delhi	01/1996
First Position in the Final Professional Examination - University of Delhi	01/1996
Scored Greater Than 75% on Written Exams and Viva-Voce Examination - University of Delhi	01/1996
Third Position in the First and Second Professional Examination - University of Delhi	01/1996
Abbott Laboratories Postdoctoral Student Award for Outstanding Research Accomplishments - Gastrointestinal Division at Experimental Biology, American Physiological Society	01/1999

Trainee Travel Award Awarded - American Federation for Medical Research	01/1999
Presidential Poster Award - Annual Meeting, American Association for the Study of Liver Diseases, Dallas, TX	11/1999
Travel Award - Young Investigators Conference on Digestive Disease, LaJolla, CA	04/2000
Presidential Poster Award - Annual Meeting, American Association for the Study of Liver Diseases, Dallas, TX	10/2000
Henry Christian Award in Recognition of Meritorious Work by a Physician-Investigator - American Federation for Medical Research	01/2001
Trainee Travel Award - American Federation for Medical Research	01/2001
Academic Skills Workshop Travel Award - American Gastroenterological Association	01/2006
J. Arnold Barger Award for Research - Awarding Organization	01/2008
Research Recognition Award - Department of Internal Medicine, Mayo Clinic	01/2008
Fellow - American Association for the Study of Liver Diseases	10/2017 - Present

Previous Professional Positions and Major Appointments

Instructor in Medicine - Mayo Clinic College of Medicine and Science	07/2006 - 07/2007
Assistant Professor in Medicine - Mayo Clinic College of Medicine and Science	08/2007 - 10/2016
Senior Associate Consultant - Division of Gastroenterology and Hepatology, Department of Internal Medicine, Mayo Clinic, Rochester, Minnesota	10/2008 - 03/2009
Mayo Clinic Scholar - Division of Gastroenterology and Hepatology, Department of Internal Medicine, Mayo Clinic, Rochester, Minnesota	04/2009 - 07/2011
Senior Associate Consultant - Division of Gastroenterology and Hepatology, Department of Internal Medicine, Mayo Clinic, Rochester, Minnesota	07/2011 - 12/2013
Assistant Professor in Physiology - Mayo Clinic College of Medicine and Science	11/2015 - 10/2016

Professional and Community Memberships, Societies, and Services

Professional Memberships and Services

American Association for the Study of Liver Diseases	
Member	2006 - 2007
Member	2015 - 2016
American Gastroenterological Association	
Member	2004 - Present
American Gastroenterological Association (AGA)	
Abstract Reviewer	2015 - Present
American Liver Foundation	
Grant Reviewer	2016 - Present
American Medical Association	
Member	2001 - Present
American Society for Exosomes & Microvesicles	
Member	01/2014 - Present

European Association for the Study of Liver Diseases Member	2015 - Present
International Liver Transplantation Society (ILTS) Member	2014 - Present

Journal Responsibilities

Journal Editorial Responsibilities

American Journal of Physiology Editorial Board Member	10/2017 - 09/2018
Hepatology Associate Editor	07/2016 - 06/2021

Journal Other Responsibilities

American Journal of Physiology Reviewer
BBA - Molecular Cell Research Reviewer
Case Reports in Gastroenterology Reviewer
Cell Death and Differentiation Reviewer
Cell Metabolism Reviewer
Disease Models and Mechanisms Reviewer
European Science Foundation Reviewer
Frontiers in Genetics Reviewer
Gastroenterology Case Reports Reviewer
Hepatology Reviewer
Journal of Biological Chemistry Reviewer
Journal of Cellular Biochemistry Reviewer
Journal of Hepatology Reviewer
Journal of Immunological Methods Reviewer
Journal of Lipid Research Reviewer
Liver International

Reviewer
 Mayo Clinic Proceedings
 Reviewer
 New England Journal of Medicine
 Reviewer
 PLoS Genetics
 Reviewer
 Scientific Reports
 Reviewer
 The Journal of Clinical Investigation
 Reviewer

Educational Activities

Curriculum and Course Development

Hepatobiliary Pathobiology CTSC 5270 Course Director Mayo Graduate School Rochester, Minnesota	2014 - Present
Thursday Morning Scientific Seminar Series Director Mayo Clinic, GI Basic Research	09/2015 - Present
Freston Single Topic Conference Extracellular Vesicles: Biology, Translation, and Clinical Applications in GI Disorders Minneapolis, Minnesota	08/2017 - 08/2017

Teaching Intramural

A Prognostic Model for Prediction of Survival in Patients with Hepatocellular Carcinoma Clinical Decision Making Journal Club, Mayo Clinic Rochester, Minnesota	04/19/2002
Case Presentation—Systemic Amyloidosis Morbidity and Mortality Conference, Mayo Clinic Rochester, Minnesota	07/15/2002
Cowden Disease/Familial Hamartoma Syndrome Breast Clinic, Mayo Clinic Rochester, Minnesota	07/19/2002
Post Transplant Lymphoproliferative Disorder Hematology, Mayo Clinic Rochester, Minnesota	05/26/2003
Mortality in IBD IBD Interest Group, Mayo Clinic Rochester, Minnesota	02/11/2004
Mortality in IBD Internal Medicine GI Rotation Core Lecture, Mayo Clinic Rochester, Minnesota	05/25/2004

ER Stress, JNK and Free Fatty Acid Toxicity Gores Lab Research Retreat, Mayo Clinic Rochester, Minnesota	12/03/2004
BI-1 Regulates an Apoptosis Pathway Linked to Endoplasmic Reticulum Stress Apoptosis Journal Club, Mayo Clinic Rochester, Minnesota	01/14/2005
Approach to Abnormal LFT's Internal Medicine GI Rotation Core Lecture, Mayo Clinic Rochester, Minnesota	04/26/2005
Free Fatty Acids Lead to Hepatocyte Lipoapoptosis via a JNK Dependent Pathway Clinical Investigator Research Conference, Mayo Clinic Rochester, Minnesota	01/12/2006
Evidence That Ser87 of BimEL is Phosphorylated by Akt and Regulates BimEL Apoptotic Function Apoptosis Journal Club, Mayo Clinic Rochester, Minnesota	01/27/2006
Role of Free Fatty Acid Induced Hepatocyte Lipoapoptosis in the Pathogenesis of NASH GI Research Conference, Mayo Clinic Rochester, Minnesota	03/06/2006
Approach to Pancreatitis Internal Medicine GI Rotation Core Lecture, Mayo Clinic Rochester, Minnesota	03/14/2006
Fat in the Liver: Culprit or Bystander? GI Seminar Series, Mayo Clinic Rochester, Minnesota	03/23/2006
Diagnosis and Treatment of Acute Viral Hepatitis Internal Medicine GI Rotation Core Lecture, Mayo Clinic Rochester, Minnesota	07/11/2006
Clonidine and Diuretics in Cirrhosis GI Fellowship Journal Club, Mayo Clinic Rochester, Minnesota	01/02/2007
Cancer Screening: Colon and Esophagus Internal Medicine GI Rotation Core Lecture, Mayo Clinic Rochester, Minnesota	01/16/2007
Ascites and Hepatic Encephalopathy Internal Medicine GI Rotation Core Lecture, Mayo Clinic Rochester, Minnesota	08/02/2007
GI Manifestations of HIV Internal Medicine GI Rotation Core Lecture, Mayo Clinic Rochester, Minnesota	08/14/2007
Prognostic Role of Apoptosis Markers	01/18/2008

Hepatobiliary Seminar Series, Mayo Clinic
Rochester, Minnesota

Radiofrequency Ablation for Hepatocellular Carcinoma
Hepatobiliary Fellowship Journal Club, Mayo Clinic
Rochester, Minnesota

01/29/2008

Apoptosis Mechanisms
CTSC 5270 Class
Mayo Clinic Graduate School

07/10/2012 - 07/2012

Apoptosis Journal Club
Mayo Clinic Graduate School

01/11/2013 - 01/2013

Hepatobiliary Pathobiology
CTSC 5270 Class
Mayo Clinic Graduate School

07/15/2014 - 2014

DDW Meet the Professor
Digestive Disease Week

05/2015

Hepatobiliary Conference
Pathogenesis of NASH
Mayo Clinic Graduate School

06/09/2015 - 06/2015

Hepatobiliary Pathobiology
CTSC 5270
Mayo Clinic Graduate School

07/05/2016 - 07/2016

GI Pharmacology
Introduction to Molecular Pharmacology
Rochester, Minnesota

10/31/2017

Mentorship

Kroppe, Erin (Undergraduate Student)
Description:
Current Status: University of Wisconsin
Outcome: MSTP Student

07/2009 - 05/2010

Clavo, Vinna (Undergraduate Student)
Description:
Current Status: University of Michigan
Outcome: Research Technician

09/2009 - 06/2011

Kobrossi, Christina (Undergraduate Student)
Description:
Current Status: University of Michigan
Outcome: Graduate Student

07/2010 - 06/2011

Razumilava, Nataliya (Resident)
Description:
Current Status: University of Michigan
Outcome: Faculty

07/2011 - 09/2013

Simonetto, Doug (Resident)
Description:

06/2012 - 06/2015

Current Status: Mayo Clinic, Rochester, MN
Outcome: Faculty

Idrissova, Leila (Research Fellow) 12/2012 - 02/2014
Description:
Current Status:
Outcome:

Miyaaki, Hisamitsu (Research Fellow) 03/2013 - 09/2013
Description:
Current Status: Nagasaki University Graduate School of Biomedical Sciences,
 Japan
Outcome: Faculty

Miyamoto, Yasuhiro (Research Fellow) 04/2013 - 04/2014
Description:
Current Status: Nagasaki University Graduate School of Biomedical Sciences,
 Japan
Outcome: Faculty

Baez, Pedro (Fellows, Residents, and Students) 07/2013 - 06/2016
Description:
Current Status:
Outcome:

Kakazu, Eiji (Research Fellow) 09/2013 - 09/2015
Description:
Current Status: University of Japan, Miyagi
Outcome: Faculty

Kumar, Swarup (Research Trainee) 06/2014 - 02/2015
Description:
Current Status: St. Vincent, Worcester, MA
Outcome: Internal Medicine Resident

Morton, Leslie (Research Fellow) 07/2014 - 06/2016
Description:
Current Status:
Outcome:

Jawahar, Jayanth (Undergraduate Student) 05/2015 - 08/2015
Description:
Current Status: University of Minnesota
Outcome: Undergraduate Student

Fukushima, Masanori 04/2016 - 04/2018
Description:
Current Status: ResearchFellow
Outcome:

Fukushima, Masanori (Research Fellow) 04/2016 - 04/2017
Description:
Current Status:
Outcome:

Nozickova, Barbora (Research Trainee) 06/2016 - 08/2016
Description:
Current Status:
Outcome:

Ahmed Mohammed, Hager (Fellows, Residents, and Students) Description: Current Status: CTSA Student Outcome:	06/2016 - 10/2017
Bandla, Harikrishna (Research Trainee) Description: Current Status: Outcome:	06/2016 - 06/2017
Raiter, Abigail Description: Current Status: Undergraduate Research Employee/Summer Student Outcome:	05/2017 - 04/2018
Liao, Chieh-Yu (Amy) Description: Current Status: Research Trainee Outcome:	10/2017 - 10/2018
Dasgupta, Debanjali Description: Current Status: Research Fellow Outcome:	10/2017 - 10/2018

Academic Career Development

AGA Academic Skills Workshop Redondo Beach, California	03/2006
AGA Academic Skills Workshop Chicago, Illinois	03/2012
K-Awardees Workshop Bethesda, Maryland	04/2015
AGA Future Leaders Meeting Washington, District of Columbia	05/2015

Institutional/Departmental Administrative Responsibilities, Committee Memberships, and Other Activities

Mayo Clinic

Department of Education Administration

Mayo Clinic College of Medicine

Mayo Graduate School of Medicine

Center for Clinical and Translational Science (CCaTS) Postdoctoral
Master's Degree Program

Grant Reviewer

07/2016 - Present

Mayo Clinic in Rochester

Department of Internal Medicine

GI Research Committee

01/2016 - Present

Division of Gastroenterology and Hepatology

GI Research Committee

Member

01/2006 - 12/2009

Hepatobiliary Interest Group

10/2008 - Present

Activities at Other Institutions

American Association for the Study of Liver Disease (AASLD)

Review Committee

11/2017 - Present

Board Review Committee, Chair

American Gastroenterological Association

Abstract Reviewer

01/2016 - Present

Microbiome and Liver Disease

American Liver Foundation

Ad Hoc Member

2016 - 2017

Study Section

National Institutes of Health

Ad hoc member

11/2017 - Present

DKUS-N Study Section

Presentations Extramural**National or International****Invited**

Lipotoxicity: Free Fatty Acid-induced Apoptosis in Nonalcoholic Fatty Liver Disease

06/2012

AASLD Single Topic Conference

Atlanta, Georgia

miRNA and ER Stress: Divergent roles in Cell Fate Decisions

03/2014

AASLD Single Topic Conference

Miami, Florida

Signaling via Extracellular Vesicles

11/2015

Early Morning Workshop

AASLD

San Francisco, California

Nebraska Center for the Prevention of Obesity Disease Retreat

04/18/2016

University of Nebraska, Lincoln

Lincoln, Nebraska

Liver Research Center Seminar Series

04/20/2016

Albert Einstein College of Medicine

Bronx, New York

Extracellular Vesicles Gordon Conference

08/23/2016

Gordon Research Conference

Newry, Maine

How to Succeed as an Academic Hepatologist
Career Development Workshop
AASLD
Boston, Massachusetts 11/2016

Cholangiocarcinoma: Review and Updates
03/16/2017 -
03/19/2017
Mayo Clinic Gastroenterology and Hepatology 2017
Orlando, Florida

Meet-the-Professors Luncheon
DDW 2016
San Diego, California 05/2017

Extracellular Vesicles and Lipid Mediators in NASH Pathogenesis
08/2017
Kern Lipid Conference
Vail, Colorado

Lipids in EV Biogenesis
09/2017
AGA Freston Single Topic Conference
St. Paul, Minnesota

Fatty Liver
09/2017
17th Annual Nutrition and Wellness in Health and Disease
San Francisco, California

Building a Basic Sciences Career in Hepatology
10/2017
Career Development Workshop
AASLD
Washington D.C., District of Columbia

Oral

Variations in the Neural Arch of Transitional Thoracic Vertebrae
1993
Annual Conference, Anatomical Society of India

Modulation of K⁺ Channel Activity Influences Hepatocyte Proliferation
04/1999
Experimental Biology 1999
Washington, District of Columbia

Novel Role for K⁺ Channel Activity in Regulating Hepatocyte Proliferation
06/1999
7th Annual Poster Session, Department of Medicine, Albert Einstein
College of Medicine
United States of America

Isolation of Progenitor Cells from Fetal Human Liver with Extensive Replication
11/1999
Potential and Differentiation into Mature Hepatocytes in Immunodeficient Animals

<p>Presidential Plenary Session Annual Meeting, American Association for the Study of Liver Diseases Dallas, Texas</p>	
<p>Liver Repopulation with Hepatocyte Transplantation Corrects Abnormal Copper Metabolism and Eliminates Copper Toxicosis in the LEC Rat, a Model of Wilson's Disease Presidential Plenary Session Annual Meeting, American Association for the Study of Liver Diseases Dallas, Texas</p>	11/1999
<p>Modulation of K⁺ Channel Activity Alters Growth Factor Responsiveness and Proliferation in Hepatocytes Annual Meeting, American Association for the Study of Liver Diseases Dallas, Texas</p>	11/1999
<p>Polyploidy Induced by Partial Hepatectomy is Associated with Evidence for Oxidative DNA Damage and Impaired Proliferative Potential of Cells In Vivo Annual Meeting, American Association for the Study of Liver Diseases Dallas, Texas</p>	11/1999
<p>Spontaneous Origin of an Oncogenic Cell Line Designated HFL from the Fetal Human Liver Annual Meeting, American Association for the Study of Liver Diseases Dallas, Texas</p>	11/1999
<p>KATP Channel Activity Regulates Hepatocyte Proliferation without Altering ATP-Mediated Intracellular Calcium Fluxes Young Investigators Conference on Digestive Diseases La Jolla, California</p>	04/2000
<p>Hepatocyte Lipoapoptosis is Mediated by C-Jun N-Terminal Kinase (JNK) Activation Digestive Diseases Week Chicago, Illinois</p>	05/2005
<p>Free Fatty Acids Induce JNK-Dependent Hepatocyte Lipoapoptosis via the Intrinsic Apoptotic Pathway Academic Skills Workshop, AGA Redondo Beach, California</p>	03/2006
<p>Steatosis-Induced Hepatocyte Sensitization to TRAIL is JNK-Dependent Annual Meeting, American Association for the Study of Liver Diseases Boston, Massachusetts</p>	10/2006
<p>Transcriptional Regulation of Bim by FOXO3A Mediates Hepatocyte Lipoapoptosis Digestive Diseases Week Washington, District of Columbia</p>	05/2007
<p>Free fatty acids induce Endoplasmic Reticulum stress in hepatocytes.</p>	06/2009

FASEB SRC

Vermont

Palmitate activates the unfolded protein response with CHOP expression in hepatocytes

10/2009

AASLD

Boston, Massachusetts

Palmitate-induced apoptosis is modulated by the unfolded protein response in hepatocytes

07/2010

FASEB SRC

Colorado

C/EBP homologous protein (CHOP) protects mice from steatohepatitis.

10/2010

AASLD

Boston, Massachusetts

C/EBP Homologous Protein (CHOP) Mediated Macrophage Apoptosis in Nonalcoholic Steatohepatitis Leading to Dampened Inflammation

05/2013

DDW

Orlando, Florida

American Society for Exosomes and Microvesicles

10/16/2015

ASEMV 2015

Marco Island, Florida

Mmu-miR-615-3p Regulates Lipoapoptosis by Inhibiting C/EBP Homologous Protein

11/2015

AASLD

Boston, Massachusetts

Regional

Invited

American Federation for Medical REsearch

04/25/2014

University of Illinois, Chicago

Chicago, Illinois

Exosome Workshop

02/10/2015

Rochester, MN, Minnesota

Endocrine Research Seminar

12/16/2015

Mayo Clinic College of Medicine

Rochester, Minnesota

Clinical Practice, Interests, and Accomplishments

Nonalcoholic fatty liver disease, Hepatobiliary malignancies, Benign liver masses, Liver Transplantation

Research Interests

Endoplasmic reticulum stress, lipotoxic liver injury, extracellular vesicles, mechanisms of inflammation in fatty liver, lipoapoptosis

Educational Practice, Interests, and Accomplishments

Hepatobiliary pathobiology CTSA 5270

Research Grants Awarded

Active Grants

Federal

Program Director / Principal Investigator	Organelle Dysfunction in Liver Inflammation. Funded by National Institute of Diabetes and Digestive and Kidney Diseases. (R03 DK 107402)	01/2016 - 12/2017
Program Director / Principal Investigator	Pathobiology of Liver Injury. Funded by National Institute of Diabetes and Digestive and Kidney Diseases. (R01 DK 111378)	09/2016 - 08/2021

Foundation

Program Director / Principal Investigator	A Novel Extracellular Vesicle-based Biomarker Assay for the Diagnosis of Nonalcoholic Steatohepatitis (NASH) and Nonalcoholic Fatty Liver Disease (NAFLD). Funded by Palumbo Foundation. (Palumbo Charitable Trust)	04/2017 - 03/2022
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Industry

Program Director / Principal Investigator	Lipotoxic Extracellular Vesicles in Liver Inflammation. Funded by Gilead Sciences	01/2016 - 01/2018
Program Director / Principal Investigator	A Multicenter, Randomized, Double-blind, Placebo-Controlled Trial of Emericasan (IDN-6556), an Oral Caspase Inhibitor, in Subjects with Non-alcoholic Steatohepatitis (NASH) Fibrosis. Funded by Conatus Pharmaceuticals. (IDN-6556-12)	08/2016 - 08/2018
Program Director / Principal Investigator	A PHASE 2A, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, DOSE-RANGING, PARALLEL GROUP STUDY TO EVALUATE SAFETY, TOLERABILITY, AND PHARMACODYNAMICS OF PF-05221304 ADMINISTERED DAILY FOR 16-WEEKS TO ADULT SUBJECTS WITH NONALCOHOLIC FATTY LIVER DISEASE. Funded by Pfizer Inc.. (C1171002)	12/2017 - 10/2018
Co-Investigator	Replacement Am #1_A Phase 2, Randomized, Double-Blind, Placebo-Controlled, Dose-Finding, Clinical Trial Evaluating the Efficacy and Safety of Obeticholic Acid in Subjects with Primary Sclerosing Cholangitis (747-207). Funded by Intercept. (747-207 PSC)	02/2015 - 01/2018
Co-Investigator	Replacement Am #1: STELLAR 3 - Randomized: Replacement Amendment #1: A Phase 3, Randomized, Double-Blind, Placebo-	04/2017 - 04/2022

Controlled Study Evaluating the Safety and Efficacy of Selonsertib in Subjects with Nonalcoholic Steatohepatitis (NASH) and Bridging (F3) Fibrosis. Funded by Gilead Sciences. (GS-US-384-1943)

Co-Investigator	Replacement Am #1: STELLAR 3- Open Label: Replacement Amendment #1: A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Safety and Efficacy of Selonsertib in Subjects with Nonalcoholic Steatohepatitis (NASH) and Bridging (F3) Fibrosis. Funded by Gilead Sciences. (GS-US-384-1943)	04/2017 - 04/2022
Co-Investigator	Replacement Am #1: STELLAR 4 - Randomized: Replacement Amendment #1: A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Safety and Efficacy of Selonsertib in Subjects with Compensated Cirrhosis due to Nonalcoholic Steatohepatitis (NASH). Funded by Gilead Sciences. (GS-US-384-1944)	04/2017 - 04/2022
Co-Investigator	Replacement Am #1: STELLAR 4- Open Label: Replacement Amendment #1: A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Safety and Efficacy of Selonsertib in Subjects with Compensated Cirrhosis due to Nonalcoholic Steatohepatitis (NASH). Funded by Gilead Sciences. (GS-US-384-1944)	04/2017 - 04/2022
Co-Investigator	A Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial of Emricasan, an Oral Caspase Inhibitor, in Subjects with Decompensated Non-Alcoholic Steatohepatitis (NASH) Cirrhosis. Funded by Conatus Pharmaceuticals. (IDN-6556-17)	09/2017 - 08/2020

Mayo Clinic

Program Director / Principal Investigator	The Role of the Endoplasmic Reticuum Stress Signaling Pathway Known as the Unfolded Protein Response (UPR) in the Pathogenesis of Nonalcoholic Steatohepatitis. Funded by Development - Benefactor Funded Career Development Award	03/2015 - 02/2019
Program Director / Principal Investigator	Developing nanotechnology-based diagnostics for obesity-associated liver disease using circulating hepatocyte-derived extracellular vesicle biomarkers. Funded by ASU collaborative fund	01/2018 - 12/2018

Completed Grants

Federal

Program Director / Principal Investigator	Mechanisms of Liver Inflammation. Funded by National Institute of Diabetes and Digestive and Kidney Diseases. (K08 DK 97178)	09/2012 - 08/2017
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Industry

Co-Investigator	A Placebo-Controlled, Multicenter, Double-Blind, Randomized Trial of IDN-6556 in Subjects with Non-Alcoholic Fatty Liver Disease and Raised Transaminases. (IDN-6556-06-PRO-1001): A Placebo-Controlled, Multicenter, Double-Blind, Randomized Trial of IDN-6556 in Subjects with Non-Alcoholic Fatty Liver Disease and Raised Transaminases (IDN-6556-06-PRO-1001). Funded by Conatus Pharmaceuticals. (Protocol: IDN-6556-06)	03/2014 - 03/2015
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Mayo Clinic

Co-Program
Director /
Principal
Investigator

Defining Novel Mechanisms of Hepatocellular Lipotoxicity to Treat
Nonalcoholic Fatty Liver Disease. Funded by Center for Biomedical
Discovery. (CBD-01)

02/2015 - 12/2016

Bibliography

Peer-reviewed Articles

1. Gupta S, **Malhi H**, Gagandeep S, Novikoff P. Liver repopulation with hepatocyte transplantation: new avenues for gene and cell therapy. *J Gene Med.* 1999 Nov-Dec; 1: (6)386-92. PMID:10753063 DOI:10.1002/(SICI)1521-2254(199911/12)1:6<386::AID-JGM73>3.0.CO;2-Z
2. Zahler MH, Irani A, **Malhi H**, Reutens AT, Albanese C, Bouzahzah B, Joyce D, Gupta S, Pestell RG. The application of a lentiviral vector for gene transfer in fetal human hepatocytes. *J Gene Med.* 2000 May-Jun; 2: (3)186-93. PMID:10894264 DOI:10.1002/(SICI)1521-2254(200005/06)2:3<186::AID-JGM100>3.0.CO;2-6
3. **Malhi H**, Irani AN, Rajvanshi P, Suadican SO, Spray DC, McDonald TV, Gupta S. KATP channels regulate mitogenically induced proliferation in primary rat hepatocytes and human liver cell lines. Implications for liver growth control and potential therapeutic targeting. *J Biol Chem.* 2000 Aug 25; 275: (34)26050-7. PMID:10862612 DOI:10.1074/jbc.M001576200
4. Gupta S, Rajvanshi P, **Malhi H**, Slehria S, Sokhi RP, Vasa SR, Dabeva M, Shafritz DA, Kerr. Cell transplantation causes loss of gap junctions and activates GGT expression permanently in host liver. *Am J Physiol Gastrointest Liver Physiol.* 2000 Oct; 279: (4)G815-26. PMID:11005770
5. Gupta S, **Malhi H**, Gorla GR. Re-Engineering the liver with natural biomaterials. *Yonsei Med J.* 2000 Dec; 41: (6)814-24. PMID:11204832 DOI:10.3349/ymj.2000.41.6.814
6. **Malhi H**, Gupta S. Hepatocyte transplantation: new horizons and challenges. *J Hepatobiliary Pancreat Surg.* 2001; 8: (1)40-50. PMID:11294289
7. Irani AN, **Malhi H**, Slehria S, Gorla GR, Volenberg I, Schilsky ML, Gupta S. Correction of liver disease following transplantation of normal rat hepatocytes into Long-Evans Cinnamon rats modeling Wilson's disease. *Mol Ther.* 2001 Mar; 3: (3)302-9. PMID:11273771 DOI:10.1006/mthe.2001.0271
8. Gorla GR, **Malhi H**, Gupta S. Polyploidy associated with oxidative injury attenuates proliferative potential of cells. *J Cell Sci.* 2001 Aug; 114: (Pt 16)2943-51. PMID:11686298
9. **Malhi H**, Bhargava KK, Afriyie MO, Volenberg I, Schilsky ML, Palestro CJ, Gupta S. 99mTc-mebrofenin scintigraphy for evaluating liver disease in a rat model of Wilson's disease. *J Nucl Med.* 2002 Feb; 43: (2)246-52. PMID:11850492
10. **Malhi H**, Irani AN, Volenberg I, Schilsky ML, Gupta S. Early cell transplantation in LEC rats modeling Wilson's disease eliminates hepatic copper with reversal of liver disease. *Gastroenterology.* 2002 Feb; 122: (2)438-47. PMID:11832458
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* Indicates that the primary author was a mentee of this author.

