

CURRICULUM VITAE

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Name: Santiago J. Munoz, M.D.

Present Academic and Hospital Appointments:

3/2009-present Professor of Medicine, Temple School of Medicine
Medical Director, Liver Transplant Program
Director of Clinical Hepatology
Temple University Hospital, Philadelphia, Pennsylvania

8/2008-2/2009 Director, Liver Service, PENN Presbyterian Medical Center

2000-2008 Associate Professor of Medicine, Jefferson Medical College of
Thomas Jefferson University, Philadelphia, Pennsylvania

1995-2008 Active Attending Staff, Albert Einstein Medical Center,
Philadelphia, PA

1998- 2008 Head, Division of Hepatology, Department of Medicine
Albert Einstein Medical Center, Philadelphia, PA

1998 – 2008 Director, Center for Liver Diseases
Albert Einstein Medical Center, Philadelphia, PA

1995– 2008 Medical Director, Liver Transplant Program
Albert Einstein Medical Center, Philadelphia, PA

2002-2003 Acting Chair, Division of Gastroenterology
Albert Einstein Medical Center

Education

1978 M.D., University of Chile School of Medicine, Valparaiso, Chile

1979-81 Internal Medicine Residency, Univ. of Chile University Hospital

1981-83 Research Fellowship in Pharmacology & Experimental Therapeutics,
The Johns Hopkins School of Medicine, Baltimore, MD

1981-83 Research Fellowship in Medicine, Department of Medicine
The Johns Hopkins School of Medicine, Baltimore, MD

1983-84 Internship in Internal Medicine, Thomas Jefferson University Hospital
of Jefferson Medical College, Philadelphia, PA

1984-85 Resident in Internal Medicine, Thomas Jefferson University Hospital of
Jefferson Medical College, Philadelphia, PA

1985-87 Fellowship in Gastroenterology and Hepatology, Thomas Jefferson Hospital of
Jefferson Medical College, Philadelphia, PA

Honors and Awards

- 1979 Faculty of Medicine Award to Best Intern
University of Chile School of Medicine
- 1984 Physician Recognition Award
American Medical Association
- 1986 Winner, National Clinical Paper Competition
American College of Physicians
- 1986 Millie Caskie Memorial Postdoctoral Research
Fellowship Award, American Liver Foundation
- 1989 Elected to Fellow, American College of Physicians
- 1990 Visiting Professor,
University of Lisbon Medical School, Lisbon, Portugal
- 1991 Visiting Professor,
University at Erlangen-Nurnberg, Erlangen, Germany
- 1992 Investigator of the Year Award, presented by the Delaware Valley
Chapter of the American Liver Foundation
- 1995 Dr. Alfonso Pierro Annual Memorial Lectureship,
St. Agnes Hospital, Philadelphia, PA
- 1998 Session Chair, Liver Transplantation, Annual Scientific Meeting, American
Gastroenterological Association and American Assoc. for the Study of Liver Disease
- 1995-98 Faculty Research Award, Department of Medicine,
Albert Einstein Medical Center, Philadelphia, PA
- 1999 Elected Fellow, American College of Gastroenterology
- 2002 Selected Top Doctor by *Philadelphia Magazine*, May issue 2002
- 2002 Guest Faculty and Speaker at the Annual Meeting of the Pennsylvania Society of
Gastroenterology, September 13-15, Harrisburg, Pennsylvania.
- 2002 Guest faculty and Speaker at the Annual Meeting of the National Community
Pharmacists Association, Nashville, TN, October , 2002
- 2002 Guest Faculty and Speaker at the Annual Liver Transplant Post Graduate Course of the
American Association for the Study of Liver Disease and International Liver
Transplant Society, November 1st, Boston, MA.
- 2003 “Physician of the Year” Award by the Delaware Valley Chapter of the American Liver
Foundation.
- 2004 Selected Top Doctor by *Philadelphia Magazine*, May issue, 2004.
- 2004 Faculty, 55th Annual Meeting of the American Association for the Study of Liver
Disease, Boston, MA, 2004.
- 2005 Selected Top Doctor by *Philadelphia Magazine*, May issue, 2005
- 2005 Guest Faculty at the Pennsylvania Society of Gastroenterology Annual Scientific
Meeting, September 17, 2005, Philadelphia, Pennsylvania.

- 2005 Guest Faculty at Symposium on Coagulopathy of Liver Disease: Navigating the Cascade.
University of Virginia, Charlottesville, VA, October 9-10, 2005
- 2006 Guest Speaker at the First Philadelphia Liver Symposium by the American Liver Foundation, March 12th, 2006, Childrens Hospital of Philadelphia
- 2006 Selected Top Doctor by *Philadelphia Magazine*, May issue, 2006
- 2007 Guest Faculty at Symposium on Advancing the Diagnosis and Management of Hepatic Encephalopathy, Boston, MA, October 29, 2006.
- 2007 Speaker, 42nd Annual Scientific Meeting of the European Association for the Study of Liver Disease, Barcelona, Spain, April 15th, 2007
- 2007 Guest Faculty at Symposium on Coagulopathy in Liver Disease
University of Virginia, Charlottesville, VA, April 28-29, 2007
- 2009 Selected Top Doctor by *Philadelphia Magazine*, May issue, 2009
- 2010 Selected Top Doctor by *Philadelphia Magazine*, May issue, 2010
- 2011 Selected Top Doctor by *Philadelphia Magazine*, May issue, 2011
- 2012 Selected Best Doctor by *South Jersey Magazine*, August issue, 2011
- 2012 Selected for Best Doctors in America database.

Specialty Board Certification

- 1985 American Board of Internal Medicine
- 1989 Subspecialty Board of Gastroenterology
- 2008 Transplant Hepatology CAQ

Licensure

- 1982 Commonwealth of Pennsylvania Licensed Medical Physician and Surgeon
(MD-039763-L)
- 2007 New Jersey, License #25MA08341000, issued 11/20/2007 (inactive)

Previous Academic and Hospital Appointments

- 1987-88 Instructor in Medicine, Jefferson Medical College, Philadelphia, PA
- 1987-95 Attending Physician, Thomas Jefferson University Hospital, Philadelphia, PA
- 1987-95 Medical Staff Physician, Thomas Jefferson University Hospital, Philadelphia, PA

1988-92 Assistant Professor of Medicine, Jefferson Medical College, Philadelphia, PA
 1992-95 Associate Professor of Medicine, Jefferson Medical College, Philadelphia, PA
 1995-2000 Associate Professor of Medicine, Temple School of Medicine
 Temple University, Philadelphia, PA

Other University Positions

1989-95 Director, Liver Diseases Program, Thomas Jefferson University Hospital of Thomas
 Jefferson University, Philadelphia, PA
 1989-95 Medical Director, Liver Transplant Program, Thomas Jefferson University Hospital
 of Thomas Jefferson University, Philadelphia, PA
 1992-95 Internship Selection Committee, Department of Medicine, Jefferson Medical College
 of Thomas Jefferson University, Philadelphia, PA
 1993-95 Pharmacy and Therapeutics Committee, Gastroenterology Subcommittee, Thomas
 Jefferson University Hospital of Thomas Jefferson University, Philadelphia, PA
 1988-95 Teaching Attending Physician, Department of Medicine, Jefferson Medical College
 of Thomas Jefferson University, Philadelphia, PA
 1993 Faculty, Clinical Pharmacology and Therapeutics 401 Course, Jefferson Medical
 College of Thomas Jefferson University, Philadelphia, PA
 1987-95 Training Program Faculty, Gastroenterology and Hepatology Fellowship,
 Jefferson Medical College, Philadelphia, PA

Other Professional Activities

2011- present Senior flight Surgeon, 177th FW, New Jersey Air National Guard
 1989-2008 Member, Advisory Board, American Liver Foundation Delaware Valley Chapter
 1991-93 Member, Committee for Liver and Intra-Abdominal Organ Transplantation,
 American Society of Transplant Physicians
 1992-93 Member, Publications Committee, American Society of Transplant Physicians
 1992-94 Member, Patient Care and Education Committee,
 American Society of Transplant Physicians
 1991-94 Member, External Review Committee,
 U.S. Air Force Liver Transplantation Program
 1993-94 Member, Publications Committee, American Association for the
 Study of Liver Diseases
 1992-98 Coordinator and Program Director, Annual Meetings of the Delaware Valley
 Hepatology and Liver Transplantation Club
 1994-1997 Member, Abstract Selection Committee, American Gastroenterological Association
 1994- Chair, Abstract Selection Committee, Section: Clinical Transplantation,
 Annual Scientific Meeting, American Association for the Study of Liver Disease
 1998 Member, Abstract Selection Committee, Section: Experimental Transplantation,
 Annual Scientific Meeting, American Association for the Study of Liver Disease
 1999- Hepatitis C Medical Advisory Committee, Philadelphia, Pennsylvania
 1998 Member, Regional Review Board, United Network Organ Sharing, Region 2
 1998 Guest Faculty, National Gastroenterology Fellows Symposium, Am Coll Gastroent
 1989-95 Co-Chairman, Liver Transplant Selection Committee, Thomas Jefferson Hospital
 1995- Co-Chairman, Liver Transplant Selection Committee,
 Albert Einstein Medical Center
 1993- Chair, Pharmacology and Toxicity Committee, NIH Multicenter Study of

- 2000 Methotrexate in Primary Biliary Cirrhosis
Reviewer, General Clinical Research Center, Hershey Medical Center,
Penn State College of Medicine
- 2001 Co-Chairman, Combined Clinical Symposium on Fulminant Hepatic Failure,
AASLD and AGA, Dallas, 2000
- 2000 Chairman, Global Symposium on Artificial Liver Support Systems, Dallas, TX
- 2000 - 2003 Member, Gastroenterology Fellowship Selection Committee
- 1995 – present Member, Hepatology Fellowship Selection Committee
- 1995 – present Member, Hepatology Fellowship Curriculum Development Committee
- 2002 - Member, National Institutes of Health, Data Safety and Monitoring Board for
Multicenter Study: High Dose Ursodeoxycholic Acid in Primary Sclerosing
Cholangitis.
- 2003 Reviewer, National Institutes of Health / NIDDK, Grant Proposals and Applications
for Drug and Toxin-Induced Liver Injury, Bethesda, MA, May 4-5, 2003.
- 2002 – 2005 Member, International Education Sub-Committee, American Association for the
Study of Liver Disease
- 2003 Guest Faculty, National Gastroenterology Fellows Symposium, Am Coll Gastroenterology
- 2004 - 2007: Steering Committee, U.S. Acute Liver Failure Study Group
- 2010- Research Committee, American College of Gastroenterology

Editorial Activities

- 2000- Member, Editorial Board, Liver Transplantation
- 1986 Manuscript Referee, Journal of Occupational Medicine
- 1988 Manuscript Referee, Journal of Studies on Alcohol
- 1988- Manuscript Referee, Hepatology
- 1988- Manuscript Referee, Gastroenterology
- 1988- Manuscript Referee, American Journal of Gastroenterology
- 1994- Manuscript Referee, Annals of Internal Medicine
- 1995- Manuscript Referee, Liver Transplantation & Surgery
- 1994- Member, Editorial Council, Medicina y Cultura
- 1994-2000 Abstract Referee, American Gastroenterological Association
- 1995-2002 Abstract Referee, American Association for the Study of Liver Disease
- 2011 – present International Editorial Committee, Gastroenterol Latinoamer ISSN 0716-8594

Professional Organization Membership and Positions

- 1984- American College of Physicians
Elected to Fellow, 1989
- 1983-1986 American Association for the Advancement of Science
- 1982-1985 American Federation for Clinical Research
- 1987-1991 Sigma Xi Scientific Research Society
- 1983-1987 American Society of Pharmacology and Experimental Therapeutics
- 1988- American Liver Foundation, Medical Advisory Board, Delaware Valley Chapter
- 1998 American Health Digestive Diseases Foundation, National Hepatitis Campaign
- 1993- American Society of Transplant Physicians

1994- Transplantation Society
 1995- International Liver Transplant Society
 1996- European Association for the Study of Liver Disease
 1997- Pennsylvania Society of Gastroenterology
 1998- The Albert Einstein Society
 1983- American Association for the Study of Liver Disease
 Faculty, Annual Post Graduate Course
 Session Chairman, Post Graduate Course at Annual Meeting
 Chair, Abstract Review Committee: Liver Transplantation Section
 Member, Publications Committee
 Faculty, Meet-the-Professor Sessions, Annual Scientific Meeting
 Moderator, Early Morning Workshops
 1987- American College of Gastroenterology
 Elected to Fellow, 1999
 Guest Faculty, National Gastroenterology Fellows Symposium
 1987- American Gastroenterological Association

Teaching Positions

1987-88 Instructor in Medicine, Department of Medicine Residency Program,
 Jefferson Medical College
 1987-88 Preceptor, Summer Research Program for Senior Medical Students
 1988-95 Teaching Attending, Department of Medicine Residency Program,
 Jefferson Medical College
 1990-95 Teaching Attending for Medical Students, Residents, and Fellows,
 Division of Gastroenterology and Hepatology, Jefferson Medical College
 1990-95 Teaching Attending, Medical Residents Patient Management Conferences,
 Jefferson Medical College
 1990-95 Teaching Attending, Medical House Staff Noon Conference Series,
 Jefferson Medical College
 1990-95 Teaching Attending, Introduction to Clinical Medicine ICM 202, Physical
 Examination of the Abdomen, Gastroenterology and Hepatology,
 Jefferson Medical College
 1990-95 Teaching Attending, Small Group Seminars for Medical Students,
 Topics in Gastroenterology, Jefferson Medical College
 1990-95 Instructor, Fellows review Sessions, Division of Gastroenterology,
 PGY-IV, PGY-V Gastroenterology Fellows, Jefferson Medical College
 1991-95 Lecturer, Introduction to Clinical Medicine for Medical Students: Laboratory
 Evaluation of the Liver Function, Jefferson Medical College
 1993 Lecturer, Clinical Pharmacology and Therapeutics 401 Course,
 Jefferson Medical College
 1990-95 Lecturer, Nursing In-Service Program, Thomas Jefferson University Hospital
 1996- Associate Professor of Medicine, Temple School of Medicine, Department
 of Medicine, Albert Einstein Medical Center
 1995- Teaching Attending for Medical Students and Residents,
 Department of Medicine, Albert Einstein Medical Center
 1996- Lectures, Core Curriculum Conferences, Medical House Staff,
 Department of Medicine, Albert Einstein Medical Center
 1997- Teaching Attending, Clinical Evaluation Exercise Program,
 Department of Medicine, Albert Einstein Medical Center
 1997- Teaching Attending, Case Conference Series,

- 1996 Department of Medicine, Albert Einstein Medical Center
Teaching Attending: GI Didactic and Pathophysiology Conferences,
Liver Topics, Division of Gastroenterology, Albert Einstein Medical Center
- 1995- Teaching Attending, Gastroenterology Fellowship Program, Hepatology and Liver
Transplantation Rotations, Albert Einstein Medical Center
- 1997 Teaching Attending, Hepatology Fellowship Training Program,
Division of Hepatology, Albert Einstein Medical Center
- 1995- Teaching Attending, Preceptorships and Electives in Hepatology, Medical
Residents and Medical Students, Albert Einstein Medical Center
- 1999 Co-Director, First Post Graduate Course on Hepatobiliary Disease and Liver
Transplantation, Albert Einstein Medical Center

Research Grants

American Liver Foundation Postdoctoral Research Award. 1986-1987, Fellowship Recipient

Ciba-Geigy Pharmaceutical Co.: A Double-Blind Randomized Controlled Trial of Ursodeoxycholic Acid in Primary Biliary Cirrhosis, Principal Investigator at Jefferson Medical College, 1989 -1991.

National Institutes of Health, (subcontractor, Southwestern Medical Center and University of Texas): A Multicenter, Double-Blind Controlled Trial of Combination Therapy (Ursodeoxycholic Acid Plus Methotrexate) in Primary Biliary Cirrhosis, 1992-1995, Principal Investigator, Jefferson Medical College.

Schering Oncology/Biotech: Treatment of Chronic Hepatitis B With Alpha-Interferon and Prednisone, Jefferson Medical College, 1992 – 1994, Principal Investigator.

National Institutes of Health, 1995 – 2003, (subcontractor, Southwestern Medical Center and University of Texas): A Multicenter, Double-Blind Controlled Trial of Combination Therapy (Ursodeoxycholic Acid Plus Methotrexate) in Primary Biliary Cirrhosis, 1998-2004, Principal Investigator, Albert Einstein Medical Center

Schering Oncology/Biotech: Clinical Research Grant: Treatment of Chronic Hepatitis C Virus Infection with Combination Antiviral Therapy: Interferon and Ribavirin, 1996 – 2000, Principal Investigator.

Schering Oncology/Biotech: Clinical Research Grant: Intron A and Ribavirin for Treatment of Patients With Chronic Hepatitis C Not Previously Treated With Interferon, Co-Investigator, 1996-2000.

Schering Oncology/Biotech: Clinical Research Grant: Treatment of Post Liver Transplant Recurrence of Chronic Hepatitis C Virus Infection with Interferon Monotherapy, 1997 – 2000, Co-Investigator.

Schering Oncology/Biotech: Clinical Research Grant: Interferon Alpha 2b and Phlebotomy Therapy in Patients With Chronic hepatitis C Virus Infection, Co-Investigator, 1996-1998.

Roche Laboratories: Clinical Research Grant, A Randomized, Open-Label, Multicenter, Efficacy, Tolerability and Safety Study of Pegasys Versus Rebetron in Interferon and Ribavirin Treatment Naïve Patients With Chronic Hepatitis C Virus Infection, 2000, Co-Investigator

Roche Laboratories: Clinical Study NR16161 (WINGS): A Prospective Randomized Multicenter Open-Label Comparative Safety Study of Pegasys vs. Pegasys Plus Ribavirin Treatment in Patients With Chronic Hepatitis C. Completed. Abstract presented to AASLD, 2004. (Rodriguez-Torres et al).

Amgen, Inc.: Clinical Research Grant, A Randomized, Multicenter, Parallel Dose, Efficacy and Safety Study Comparing Two Doses of Interferon Alfacon-1 in Patients With Chronic Hepatitis C and Human Immunodeficiency Virus Infections, Co-Investigator, 1999-2000.

Roche Laboratories: Clinical Research Grant, An Open Label Active Controlled Study to Evaluate the Use of CellCept (Mycophenolate Mofetil) in Post-Liver Transplant Patients with Renal Impairment Who are Currently on Neoral (Cyclosporin), Co-Investigator

Wyeth Ayerst Research: Clinical Research Grant: Open label Study of Oral Sirolimus for Treatment of Refractory Solid Organ Allograft Rejection and Prophylaxis in Transplant Patients at Risk for Allograft Rejection in Whom Approved Agents are Contraindicated, Not Tolerated, or Ineffective. 1999-2001. Co-Investigator

Site Principal Investigator, National Institutes of Health Grant 5-RO1-DK58369-05: U.S. Acute Liver Failure Study Group and A Multi-Center Therapy Trial for Acute Liver Failure: Intravenous Acetylcysteine for Non-Acetaminophen Acute Liver Failure, 2000 – present.

Site Principal Investigator, A Phase II, Double Blind, Randomized, Placebo-Controlled, Multicenter Study of the Safety and Antifibrotic Efficacy of Interferon-gamma 1b in Patients with Severe Liver Fibrosis or Compensated Cirrhosis Due to hepatitis C. Sponsor: Intermune Pharm. Inc., 2002 – 2004.

Site Principal Investigator: A Multicenter, Double Blinded Study in Patients With Compensated Cirrhosis Due to Chronic Hepatitis C Who Are Non-Responders To Prior Interferon Alfa Or Interferon Alfa Plus Ribavirin Therapy, Comparing Treatment With Thymosin Alfa-1 Plus PegInterferon Alfa-2a With PegInterferon Alfa-2a Plus Placebo. Sponsor: SciClone Pharmaceuticals, 2002 – 2004.

Site Principal Investigator: A Multicenter, Double Blinded Study in Non-Cirrhotic Patients Due to Chronic Hepatitis C Who Are Non-Responders To Prior Interferon Alfa Or Interferon Alfa Plus Ribavirin Therapy, Comparing Treatment With Thymosin Alfa-1 Plus PegInterferon Alfa-2a With PegInterferon Alfa-2a Plus Placebo. Sponsor: SciClone Pharmaceuticals, 2002 – 2004.

Site Principle Investigator: SPRI Clinical Study P03471: Comparison of Peg-Intron Plus Rebetol vs. Pegasys Plus Copegus in Previously Untreated Adult Subjects With Chronic hepatitis C Infected with Genotype 1. Schering Plough Research Institute: 2004 – present.

Site Principle Investigator: A Phase I Prospective, Longitudinal Feasibility Trial of Safety, Tolerance and Efficacy of SEPET® in patients With Acute Exacerbation of Chronic Liver Disease.

Arbios, Inc. 2005 – present, \$ 192,000.-

Publications

PEER-REVIEWED PAPERS

Munoz S, Vallejos H: Causes of death in liver cirrhosis.
Bull. Hosp. Vina del Mar 1976; 32:165-170.

Sacks S, Alvarez G, Chamy V, **Munoz S**: Experience with bromocriptine in chronic portal encephalopathy. Rev Med Valparaiso 1979; 32:71-76.

Sacks S, **Munoz S**, Varela N, Alvarez R: Treatment with colchicine of liver cirrhosis: A double-blind study. Rev Med Valparaiso 1979; 32:41-46.

Orellana J, **Munoz S**: Jaundice in bacterial peritonitis.
Rev Med Chil 1982; 110 (3):233-235.

Sapir D, Walser M, Moyer E, Stewart P, Imbembo A, **Munoz S**: Effects of alpha-ketoisocaproate and leucine on nitrogen metabolism in postoperative patients.
Lancet, 1983; May 7, 1(8332):1010-1014.

Munoz S and Walser M: Effect of experimental liver disease on the utilization for protein synthesis of orally administered alpha-ketoisocaproate.
Hepatology 1986; 6 (3):472-476.

Munoz S and Walser M: Utilization of ketoisocaproate for synthesis of hepatic export protein and peripheral proteins in normal and cirrhotic subjects.
Gastroenterology 1986; 90:1834-1843.

Savage M, **Munoz S**, Kusiak V and Herman W: Chylous ascites due to constrictive pericarditis. Am J Gastroenterol 1987; 82 (10):1088-1090.

Wechsler RJ, **Munoz S**, Needleman L, Kurtz AB, Miller CL, Yang SL, Maddrey WC and Jarrell BE: The periportal collar: A computed tomographic sign of liver transplant rejection. Radiology 1987; 165:57-60.

Angstadt J, Jarrell B, Maddrey W, **Munoz SJ**, et al: Hemolysis in ABO-incompatible liver transplantation. Transplant Proc. 1987; 19 (6):4595-4597.

Munoz SJ, Nagelberg S, Green P, Angstadt J, Yang S, Jarrell B and Maddrey W: Ectopic soft tissue calcification following orthotopic liver transplantation. Hepatology 1988; 8:476-483.

Munoz SJ, Vlasses P, Zaragosa M, Boullata J, Jarrell B, and Maddrey W: Elevated arterial blood pressure in survivors of liver transplantation treated with cyclosporine and corticosteroids.
Transplant Proc. 1988; 20 (Suppl. 3):623-627.

Munoz SJ, Fariello R, and Maddrey WC: Submassive hepatic necrosis associated with the use of the

GABA agonist progabide. *Digestive Diseases Sciences* 1988; 33 (3):375-380.

Yang SL, Ballas S, Angstadt J, Jarrell B, Moritz M, Carabasi A, **Munoz SJ**, Maddrey WC, et al: Using ABO-incompatible blood in massive transfusions in orthotopic liver transplantation. *Transplant Proc.* 1988; 20 (1) (Suppl. 1):295-299.

Angstadt J, Jarrell B, Carabasi A, Yang S, Moritz M, Radomski J, **Munoz SJ**, et al: Liver transplantation following severe liver trauma. *Transplantation* 1988; 46:321-322.

Cowchock S, Fort J, **Munoz SJ**, Norberg R, and Maddrey W: False-positive ELISA test for anticardiolipin antibodies in sera from patients with repeated abortion, rheumatic disorders, and primary biliary cirrhosis: Correlation with elevated polyclonal IgM and implications for patients with repeated abortion. *Clin Exp. Immunol* 1988; 73:289-294.

Munoz SJ, Heubi J, Balistreri W and Maddrey W: Vitamin E deficiency in primary biliary cirrhosis: Gastrointestinal malabsorption, frequency and relation to deficiency in other lipid soluble vitamins. *Hepatology* 1989; 9:525-531.

Munoz SJ, Moritz M, Jarrell B and Maddrey WC: Postoperative thrombocytopenia in liver transplant recipients: Prognostic implications and treatment with high dose of gamma-globulin. *Transplant Proc.* 1989; 21 (3):3545-3546.

Munoz SJ, Ballas SK, Moritz M, Martinez J, et al: Perioperative management of fulminant and subfulminant hepatic failure with therapeutic plasmapheresis. *Transplant Proc.* 1989; 21 (3):3535-3536.

Angstadt J, Jarrell B, Moritz M, **Munoz SJ**, Maddrey W, Carabasi A, Yang SL, Radomski J, Ruggiero R, Gastfriend R, Villare R, Vernick J: Surgical management of severe liver trauma: A role for liver transplantation. *Journal of Trauma* 1989; 29 (5):606-608.

Simon D, **Munoz SJ**, Maddrey W, Knowles B: Chromosomal rearrangements in a primary hepatocellular carcinoma. *Cancer Genetics and Cytogenetics.* 1990; 45:225-260.

Munoz SJ, Martinez A, Maddrey WC: Hepatic phospholipidosis associated with trimethoprim-sulphamethoxazole. *Hepatology* 1990; 12:342-347.

Moritz M, Jarrell B, Armenti V, Radomski J, Carabasi S, Zeitoun G, Columbus K, Rubin R, **Munoz SJ**, Maddrey WC: Heterotopic liver transplantation for fulminant hepatic failure: A bridge to recovery. *Transplantation* 1990; 53 (3):524-526.

Stampfl DA, **Munoz SJ**, Moritz MJ, Rubin R, Armenti V, Jarrell E, Maddrey WC: Heterotopic liver transplantation for fulminant Wilson's disease. *Gastroenterology* 1990; 99:1834-1836.

Munoz SJ, Deems R, Moritz M, Martin P, Jarrell B, Maddrey W: Hyperlipidemia and obesity after orthotopic liver transplantation. *Transplant Proc.* 1991; 23 (1):1480-1483.

Munoz SJ, Robinson M, Northrup B, Bell R, Moritz M, Jarrell B, Martin P, Maddrey W: Elevated intracranial pressure and computed tomography of the brain in fulminant hepato-cellular failure.

Hepatology 1991; 13:209-212.

Martin P, **Munoz SJ**, Di Bisceglie AM, Rubin R, Waggoner JG, Armenti V, Moritz MJ, Jarrell B and Maddrey WC: Recurrence of hepatitis C virus infection after orthotopic liver transplantation.
Hepatology 1991; 13:719-721.

Verhille M, **Munoz SJ**: Acute biliary-vascular fistula following needle aspiration of the liver.
Gastroenterology 1991; 101:1731-1733.

Intenzo C, **Munoz SJ**, Moritz M, et al: Hepatobiliary scan appearance of heterotopic liver transplantation.
J. Clin. Nucl. Med. 1991; 16(9):684-685.

Weschler R, Feld R, **Munoz SJ**: The suprahepatic circumcaval ring: A common CT finding after liver transplantation.
Radiology 1992; 183:545-548.

Siegelman E, Mitchell D, Rubin R, Moritz M, **Munoz S**, Palazzo J, Rifkin M: Recovery of native liver after heterotopic transplantation for fulminant hepatic failure: MR studies.
J. Comp. Ass. Tom. 1992;16(1): 152 - 154.

Munoz SJ, Patrick H, Moritz M: Heterogenous effect of liver transplantation on the granuloma enhancing factor of primary biliary cirrhosis.
Transplantation Proc. 1993; 25(2): 1927 -1929.

Munoz SJ, Jarrell B, Westerberg S, Miller L, Moritz M, Maddrey WC. Serum amino acids following human orthotopic liver transplantation.
Transplantation Proc. 1993: 25(2): 1779 - 1782.

Murphy S, **Munoz S**, Parry-Billings M, Newsholme E: Amino acid metabolism during platelet storage for transfusion.
Brit J Haematology 1992; 81:585-590.

Munoz SJ, Moritz M, Martin P, Westerberg S, Northrup B, Bell R, Yang S, Radomski J: The relationship between cerebral perfusion pressure and systemic hemodynamics in fulminant hepatic failure.
Transplantation Proc. 1993: 25(2): 1776 - 1778.

Moritz M, Jarrell B, **Munoz S**, Maddrey WC: Regeneration of the native liver after heterotopic liver transplantation for fulminant hepatitis.
Transplantation, 1993; 55: 952 - 954.

Iwayama T, Leung P, Rowley M, **Munoz S**, Nishioka M, Nakagawa T, Dickson R, Mackay I, Gershwin E: Comparative immunoreactive profiles of Japanese and American patients with primary biliary cirrhosis against mitochondrial autoantigens.
Int. Arch. All. Immunol. 1992; 99: 28 - 33.

Leung P, Krams S, **Munoz S**, Ansari A, Kenny T, Robbins D, Fung J, Starzl T, Maddrey WC, et al:

Human monoclonal antibodies in primary biliary cirrhosis recognize conformational epitopes restricted to PDC-E2 and are not immunoreactive with other 2-oxo-dehydrogenase enzymes.

J. Autoimmunity, 1992; 5: 703 - 718.

Munoz SJ, Moritz MJ, Bell R, Northrup B, Martin P, Radomski J. Factors associated with severe intracranial hypertension in candidates for emergency liver transplantation.

Transplantation 1993; 55(5): 1071 - 1074.

Palazzo J, Lundquist K, Mitchell D, Mittal K, Hann H, **Munoz SJ**, Moritz M, Jacobs J, Martin P.: Rapid development of lymphoma following liver transplantation in a recipient with hepatitis B and primary hemochromatosis.

Am. J. Gastroenterol 1993; 88(1):102-104.

Rubin R, **Munoz S**: Clinicopathologic features of late hepatic dysfunction in orthotopic liver transplantation.

Human Pathology, 1993; 24(6): 643 - 651.

Leung PSC, Watanabe Y, **Munoz S**, Patel M, Korenberg JR, Hara P, Coppel R, Gershwin ME. RFLP analysis and chromosome localization of PDC-E2, the major autoantigen in primary biliary cirrhosis.

Autoimmunity, 1993; 14: 335 - 340.

Moritz M, Young C, **Munoz S**: Hemodynamics in acute porcine heterotopic liver transplantation: effect of graft reduction.

Transplantation Proc. 1993; 25(2): 1930 - 1932.

Van de Water J, Turchany J, Leung P, Lake J, **Munoz S**, et al: Molecular mimicry in primary biliary cirrhosis: Evidence for biliary epithelia expression of a molecule cross reactive with PDC-E2.

J. Clin Investigation, 1993; 91: 2653 - 2664.

Davis P, Leung P, Manns M, Kaplan M, **Munoz SJ**, Gorin FA, Dickson ER, Krawitt E, Coppel R, Gershwin ME. M4 and M9 antibodies in the overlap syndrome of primary biliary cirrhosis and chronic hepatitis: epitopes or epiphenomena?

Hepatology, 1992; 16(5):1128-1136.

Munoz S, Moritz M, Martin P, Jarrell B, Maddrey W: Liver transplantation for fulminant hepatitis.

Transplantation Proc. 1993; 25 (2): 1773 - 1775.

Martin P, Jacobs J, **Munoz S**, et al: Liver transplantation for chronic viral hepatitis in Asian males.

Transplantation Proc. 1993; 25(2): 1904 - 1906.

Deems RH, Friedman MI, Friedman LS, **Munoz SJ**, Maddrey WC. Chemosensory function, food preferences and appetite in human liver disease.

Appetite, 1993;20: 209-216.

Rubin R, **Munoz S**, Moritz M: Rejection-independent cholangitis following liver transplantation.

Human Pathology, 1993;24: 996-1002.

Friedman M, Preti G, Deems R, Friedman L, **Munoz S**, Maddrey W: Limolene in expired lung air of patients with liver disease.

Digestive Diseases Sciences, 1994;39 (8): 1672-1676.

- Varga J, Heiman-Patterson J, **Munoz S**, Love L: Myopathy with mitochondrial alterations in patients with primary biliary cirrhosis and antimitochondrial antibodies. *Arthritis Rheumat.* 1993;36 (10): 1468-1475.
- Siegelman E, Mitchell D, Outwater E, **Munoz S**, Rubin R: Idiopathic hemochromatosis: MRI Imaging findings in cirrhotic and pre-cirrhotic patients. *Radiology*, 1993, 188 (3): 637-641.
- Mazuryk H, **Munoz S**, Kastenber D, Rubin R: Cholestatic hepatitis associated with the use of nafcillin. *Am. J. Gastroenterol.* 1993; 88 (11): 1960-1962.
- Liang T, Hasegawa K, **Munoz S**, et al: Hepatitis B virus precore mutation and fulminant hepatitis in the USA: a PCR-based assay for the detection of specific mutation. *J. Clin. Investigation*, 1994; 93: 550-555.
- Deems RD, Friedman LS, Friedman M, **Munoz SJ**, Deems D, Maddrey W: Relationship between liver biochemical tests and dietary intake in patients with liver disease. *J. Clin. Gastroenterology*, 1994; 18(4): 304-308.
- Desai M, Mitchell D, **Munoz SJ**: Asymptomatic annular pancreas: Detection by magnetic resonance imaging. *Magn. Res. Imag.* 1994; 12(4): 683-685.
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