

MILTON G. MUTCHNICK, M.D.

Office Address:

Division of Gastroenterology
Harper University Hospital
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EDUCATION

1960 - 1963 B.S. Degree, Biology, Wayne State University,
Detroit, MI

1963 - 1967 M.D. Degree, (Magna cum laude), Wayne State University
School of Medicine, Detroit, MI

TRAINING

1967 - 1968 Medicine Internship, Yale-New Haven Hospital,
New Haven, CT

1968 - 1969 Assistant Resident Physician, Children's Hospital of
Philadelphia and the University of Pennsylvania Medical
Service, Philadelphia, PA

1971 - 1973 Research and Education Trainee, Liver Disease Unit, VA
Hospital, West Haven, CT and Yale University School of
Medicine, New Haven, CT

1973 - 1974 Resident Physician, Medicine, University of Michigan
Hospital, The University of Michigan, Ann Arbor, MI

1974 - 1975 Postgraduate Scholar in Immunology, Department of
Medicine, University of Michigan Medical Center,
Ann Arbor, MI

FACULTY APPOINTMENTS

1974 - 1975 Instructor in Medicine, University of Michigan,
Ann Arbor, MI

1975 - 1984 Assistant Professor of Medicine, University of Michigan,
Ann Arbor, MI

1984 - 1991 Associate Professor of Medicine, Wayne State University
School of Medicine, Detroit, MI

**1991 Professor of Medicine, Wayne State University School of
Medicine, Detroit, MI**

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HOSPITAL OR OTHER PROFESSIONAL APPOINTMENTS

1974 - 1984 Chief, Liver Disease Unit, Veterans Administration
Medical Center, Ann Arbor, MI

1974 - 1984 Consultant in Hepatology, Wayne County General
Hospital, Westland, MI

1980 - 1983 Acting Chief, Gastroenterology Section, Veterans
Administration Medical Center, Ann Arbor, MI

1984 - 1991 Chief, Section of Gastroenterology, Hutzel Hospital,
Detroit, MI

**1991 - 2006 Chief, Division of Gastroenterology, Harper University
Hospital, Detroit, MI**

**1991 - Division Head, Gastroenterology, Wayne State University
School of Medicine, Detroit, MI**

Military Service

1969 - 1971 Flight Surgeon and Epidemiologic Officer, U.S.A.F.
Medical Corps, Luke AFB, AZ

1971 - 1974 Commander 103D TAC Clinic, Connecticut ANG, Bradley IAP CT

1974 - 1996 Commander 180th Medical Squadron, Ohio ANG, Swanton, Ohio

1997 - 2004 State Air Surgeon, Ohio ANG, Columbus, Ohio

**2004 - 2006 Special Assistant to the Air National Guard Surgeon General
for Homeland Defense/ Homeland Security**

MAJOR PROFESSIONAL SOCIETIES

American Association for the Study of Liver Diseases (AASLD)
American College of Gastroenterology, (ACG)
American Gastroenterological Association (AGA)
European Association for the Study of the Liver (EASL)
International Association for the Study of the Liver (IASL)
Gastroenterology Research Group (GRG)
Michigan GI Society
Alliance of Air National Guard Flight Surgeons (AANGFS)
Association of Military Surgeons of the United States (AMSUS)
Society of Air Force Physicians (SAFP)
Society of U.S.A.F. Flight Surgeons
Aerospace Medical Association (AsMA)
Society of State Air Surgeons

LICENSURE AND BOARD CERTIFICATION

Michigan Medical License, 1968
Connecticut Medical License, 1971
Board Eligible, Internal Medicine, 1974
Board Eligible, Gastroenterology, 1974

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HONORS AND AWARDS

Valedictorian, Berkley High School, 1960
Recipient, Bausch and Lomb Science Award, 1960
William Beaumont Award for Original Research, 1967
United States Air Force Commendation Medal, 1978
Air National Guard Flight Surgeon of the Year, 1980
Air National Guard Meritorious Service Award, 1981
Presidential Award, Alliance of ANG Flight Surgeons, 1986
Scientific Achievement Award, Alliance of ANG Flight Surgeons, 1989
United States Air Force Meritorious Service Award, 1995
United States Air Force Meritorious Service Award 2nd device, 1996
Prof. P. Raghavan Memorial Oration, Seth G.S. Medical College and K.E.M. Hospital, Mumbai, India, Feb. 11, 2000
United States Air Force Commendation Medal, 2nd device, 2001
United States of America Legion of Merit, 2004
Selected as a "Top Doc" by Hour Magazine, 2006
Selected as an Honoree, AGA Foundation Mentors Research Scholar Award for 2007

SERVICE

Professional consultation

Consultant in Hepatology to Command Surgeon, Tactical Air Command,
Langley AFB, VA 1979-1982
Reviewer, Veterans Administration Research Advisory Group
Proposals, 1986
Reviewer, Veterans Administration Merit Review Board for
Gastroenterology, 1989
Consultant and Member, Scientific Advisory Committee of the
Michigan Chapter of the American Liver Foundation, 1986 - 1995
**Medical Advisory Board, American Liver Foundation, Michigan Chapter
2002-present**
Member, Council of Healthcare Advisors, 2004 - present

Journal/Editorial Activity

Reviewer, Gastroenterology
Reviewer, Hepatology
Reviewer, American Journal of Gastroenterology
Reviewer, J. of Clin. Gastroenterology
Reviewer, Proceedings of the Society for Experimental Biology & Medicine
Reviewer, Alcoholism: Clinical and Experimental Research
Reviewer, Digestive Diseases and Sciences
Reviewer, Journal of Biological Chemistry
Reviewer, Annals of Internal Medicine

National and International Boards and Committees

1979 - 1983 Chairman, Continuing Education Committee, Air National Guard
1979 - 1981 Corresponding Secretary, Alliance of ANG Flight Surgeons
1981 - 1983 Vice President, Alliance of ANG Flight Surgeons
1983 - 1985 President, Alliance of ANG Flight Surgeons
1986 - 1992 Board of Governors, Alliance of ANG Flight Surgeons
1991 - 1993 Program Evaluation Committee, American Association for the Study
of Liver Diseases (AASLD)
1992 - 1998 Scientific Review Board, Institute for Advanced Studies in
Immunology and Aging
1993 - 1996 Chairman, Program Evaluation Committee, American Association for
the Study of Liver Diseases (AASLD)
1993 - 1996 Historian, Alliance of ANG Flight Surgeons
1998 - 2000 Vice-President, Society of State Air Surgeons
1992 - 1998 Scientific Review Board, Institute for Advanced Studies in

2000-2003 Immunology and Aging
President, Society of State Air Surgeon

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**2003-present Member of International Scientific Advisory Board,
ClinInvent Research Pvt Ltd, Mumbai, India**

State and Hospital Committees

1980 - 1983 Subcommittee on Human Studies, Ann Arbor VA Medical Center
1982 - 1983 Human and Financial Resources Committee, Ann Arbor VA
Medical Center
1988 - 1991 Procedures and Tissue Review - Surg/Uro Section
Committee, Hutzel Hospital, Detroit, MI
1991 - 1992 Promotions and Tenure Committee, Department of Medicine,
Wayne State University School of Medicine
1993 - 1995 Tissue/Invasive Procedure Subcommittee, Harper Hospital
1994 - 1999 Chairman, Reimbursement Committee, Affiliated Internists
1994 - 2000 Trustee, Wayne State University School of Medicine FMRE
1994 - 1995 Internal Review Committee for Department of Pathology
1995 - 1996 Chairman, Salary Structure Task Force, Affiliated
Internists
1996 - 1997 Hematology/Oncology Division Head Search Committee
1997 - 1999 Chairman, Physician Compensation Committee, Affiliated
Internists
1993 - 2000 Executive Committee, Affiliated Internists
2002-present Nutrition Advisory Committee
2003-present Board of Trustees, Harper Medical Staff Trust Fund
**2007- Chairman, Medical Advisory Committee, Michigan Chapter
Of the American Liver Foundation**

PATIENT CARE

Attending Faculty in Gastroenterology - Hutzel Hospital, Harper
University Hospital, Detroit Receiving Hospital, Rehabilitation
Institute of Michigan, Karmanos Cancer Hospital
Outpatient Practice - Harper Professional Building, Farmington Hills
Practice

TEACHING

Wayne State University, 1984 - present
University of Michigan Medical Center, 1974 - 1984

Courses at Wayne State University School of Medicine:

Year II Pathophysiology Seminar Leader, 1990 - present
Year III Internal Medicine, 1984 - 1996
Physical Diagnosis, 1986-1988, 2002
Liver Histology Seminars
Internal Medicine Board Review Course(OHEP)1985-1986,1988-1991,1995-2003
Lecturer, Wayne State University School of Pharmacy 1999
**Lecturer, Wayne State University Physician Assistant Training Program
1999-present**
**Lecturer, Wayne State University School of Medicine, Year I, Nutrition
Course 2006-present**
**Lecturer and Pathophysiology Seminar Leader, Wayne State University
School of Medicine, Year II, 1990 - present**

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Graduate Student Research Programs (Abbreviated Listing)

<u>Name</u>	<u>Duration of Research Period</u>	<u>Year</u>	<u>Project Title</u>
1. Robert Welch, M.D.	6 months	1985	1. Ontogeny of Serum Thymosin α_1 2. Fetoplacental metabolism of Thymosin α_1
2. Gregory Haynes, M.D.	12 months	1985-86	Production of IFN- by leukocytes and thymosin effect
3. David Chua, M.D.	3 months	1985	Proliferative response of lymphocytes to thymosin
4. Urvish Shah, M.D.	6 months 3 months 2 months	1986 1987 1989	Serum measurements of thymosin β_4 and thymosin α_1
5. Jacob Colarian, M.D.	3 months	1986	Prostaglandin/Thymosin Effect on lymphocyte proliferation
6. Nitin Parikh, M.D.	4 months	1986	Prostaglandin E_2 and lymphocyte proliferative response
7. Guru Reddy, M.D.	3 months	1986	Interaction of ranitidine and thymosin fraction 5 on lymphocyte proliferation
8. Ayub Merchant, M.D.	3 months	1987	Absence of Prostaglandin E_2 effect on thymosin promoted lymphocyte proliferation
9. Ashwani Sethi, M.D.	3 months	1987	(Same as #8)
10. R. Panguluri, M.D.	3 months	1988	Immunohistochemical localization of thymosin α_1 in liver
11. Syam Gaddam, M.D.	2 months 2 months 2 months 8 months 6 months 6 months	1987 1988 1989 1990 1991 1992	Suppression of lymphocyte function by thymosin β_4 TIP levels in IEC-6 cells; TIP levels in IEC-6 cells; Prothymosin α_1 mRNA in HL60 cell line Thymosin treatment of CHB Thymosin treatment of CHB
12. LaVelle Ellis, M.D.	6 months 6 months	1991 1992	Prothymosin α mRNA in HEP G2 cell line Thymosin treatment of CHB
13. Elias Tarakji, M.D.	6 months	1991	Growth factors influencing IEC-6 cell growth
14. Bilal Khan, M.D.	6 months	1991-92	Suppression of HL-60 cell proliferation using antisense

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to prothymosin alpha

15. Ravi Murthy, M.D.	6 months	1992	Thymosin treatment of CH-B
16. Abhay Rao, M.D.	6 months	1992	Thymosin α_1 kinetics in HepG2 cells
17. M. Madduri, M.D.	6 months	1992	Thymosin α_1 kinetics in HepG2 cells
18. R. Panguluri, M.D.	6 months 3 months 3 months	1992 1993 1994	Immunohistochemical localization of thymosin alpha 1 in colon polyps and mucosa
19. Wm. Halama, M.D.	6 months 6 months 6 months	1993 1994 1995	Thymosin therapy in chronic hepatitis B
20. Mark Lybik, M.D.	6 months 6 months	1997 1998	Clinical outcomes research in chronic hepatitis C
21. M. Nathani, M.D.	6 months 6 months	1997 1998	Clinical outcomes research in chronic hepatitis C
22. F. Siddiqui, M.D.	6 months 6 months	1998 1999	Clinical Outcomes Research in chronic hepatitis C

(Listing for subsequent years not included in the cv)

Course or Curriculum Development

Core Curriculum in Gastroenterology, 1989
Program Director, Symposium on Chronic Viral Hepatitis, Mackinac Island, MI, September 10-13, 1992
Program Director, Symposium "Update on Treatment of Chronic Hepatitis B and C" Hyatt Regency Hotel, Dearborn, MI, April 16, 1994
Program Co-Director, Symposium on Gastrointestinal & Liver Disease, Mackinac Island, MI, September 8-11, 1994
Program Co-Director, Gastroenterology & Hepatobiliary Diseases for Internists and Gastroenterologists, Mackinac Island, MI, September 5-8, 1996
Program Co-Director, Gastroenterology & Hepatology: Advances in Diagnosis and Treatment. Mackinac Island, MI, September 10-13, 1998
Program Co-Director, Gastroenterology & Hepatology: Advances in Diagnosis and Treatment. Mackinac Island, MI, September 14-17, 2000
Program Director, Gastroenterology & Hepatology: Advances in Diagnosis and Treatment. Mackinac Island, MI, September 12-15, 2002
Text Editor and Activity Director, Wayne State University School of Medicine, Dean's Council for CME 2003
Program Co-Director, Gastroenterology & Hepatology: Advances in Diagnosis and Treatment. Mackinac Island, MI, September 9-12, 2004
Program Co-Director, Gastroenterology & Hepatology: Advances in Diagnosis and Treatment. Mackinac Island, MI, September 7-10, 2006

Syllabus for Gastroenterology and Hepatology: Advances in Diagnosis and Treatment, September 9-12, 2004

Syllabus for Gastroenterology and Hepatology: Advances in Diagnosis and

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Treatment, September 7-10, 2006

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Course Materials (Unpublished)
Internal Medicine Handbook
Author of two chapters:

1. Cirrhosis
2. Gastrointestinal Manifestations of Alcoholism

Teaching Rounds

Attending Rounds in Internal Medicine, 1984-1999
Liver Histopathology Conferences, 1990-1998
Attending Rounds in Gastroenterology, 1984-present
Mentor, special funding, Firdous Siddiqui, M.D. 2000-2001 [AASLD Junior Faculty Fellowship]
Mentor, Julia Greer, M.D., 2004
Mentor, special funding, Marie LaRoche, NP, Clinical Hepatology Fellowship, AASLD, 2004-2005
Mentor for Firdous Siddiqui, M.D., 2006-2007

GRANT SUPPORT

1976 - 1979	Michigan Memorial-Phoenix Project, \$3,000. P.I.
1976 - 1980	V.A. Research Associate, "An Investigation of the Role of Cellular Immunity in Human Liver Disease" \$176,207. P.I.
1977 - 1978	Rackham Faculty Research, "Thymosin Effect on T-Cell Population in Inflammatory Bowel Disease" \$4,890. P.I.
1977 - 1978	Distilled Spirits Council of U.S., "Thymosin Effect in Alcoholic Liver Disease" \$6,000. P.I.
1978 - 1979	Michigan Memorial-Phoenix Project, "An Investigation of the Role of Cellular Immunity in Human Liver Disease" \$3,000. P.I.
1978 - 1979	Michigan Arthritis Foundation, "Serum Thymic Factors and Thymosin Effects in Ankylosing Spondylitis" \$8,500. P.I.
1979	Biomedical Research Council, University of Michigan, "Thymosin Effect on Suppressor Cell Activity in Alcoholic Liver Disease" \$4,600. P.I.
1980	V.A. Research Service, "Immunoregulatory Lymphocytes in Alcoholic Liver Disease" \$10,200. P.I.
1980	University of Michigan-Cancer Research Institute, "Thymosin Effect in Suppressor Cell Activity in Pancreatic Cancer" \$5,800 P.I.
1981 - 1982	V.A. Merit Review, "The Effect of Thymosin on T Lymphocytes in Alcoholic Liver Disease" \$37,500. P.I.
1982 - 1984	V.A. Innovative Alcohol Research Grant, "Phase II Clinical Evaluation of Thymosin in Alcoholic Hepatitis" \$102,000. P.I.
1982 - 1984	Distilled Spirits Council of the U.S., Inc., "Thymosin Therapy in Alcoholic Hepatitis" \$15,000. P.I.
1984 - 1985	Wayne State University, Fund for Medical Research and Education, "Phase II Clinical Evaluation of Thymosin

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 Fraction 5 in Chronic Active Hepatitis" \$15,000. P.I.

1985 - 1990 Food and Drug Administration (FDA) Grant, "Thymosin Treatment of HB Virus Chronic Active Hepatitis" \$302,908. (#FD-R-000096-01) P.I.

1990 - 1993 Alpha 1 Biomedicals, Inc., "Thymosin α_1 treatment of type B virus chronic hepatitis." A Multicenter Study, Dr. Mutchnick is Project Director, \$1,500,000. (\$608,000 at Wayne State University). P.I.

1992 - 1993 Hudson Webber Foundation, "Biochemical Markers of GI Cancers and Precancerous Conditions." \$74,000. P.I.

1993 - Open Kathryn Rooney Research Grant, "Independent studies on thymosin activity." \$100,000. P.I.

1993 - 1994 Alpha 1 Biomedicals, Inc., "Mechanism of action of thymosin alpha 1 (TA-1) in HBV infection." Center Grant, Dr. Mutchnick Project Director. \$150,000. P.I.

1993 - 1994 Alpha 1 Biomedicals, Inc., "Thymosin alpha 1 treatment of type B virus chronic hepatitis" - Continuation Grant, \$164,357. P.I.

1993 - 1998 Schering-Plough Institute, "Continuous versus 24-week courses of Intron A therapy for treatment of relapse in patients with chronic hepatitis C." C93-007 \$654,798. P.I.

1995 - 1996 Schering-Plough Integrated Therapeutics Group, Inc. "Assessment of HQL in chronic hepatitis C patients with different categories of disease and sustained responders to Intron A." N95-003. \$12,500. P.I.

1997 - 1999 Schering-Plough Integrated Therapeutics Group, Inc. Intron A + Ribavirin for treatment of patients with Interferon/Refractory or Interferon/Relapsed chronic hepatitis C. R96-419. \$75,000. P.I.

1998 - 1999 Schering-Plough Integrated Therapeutics Group, Inc. Health-Related Quality of Life Questionnaire for Patients with Chronic Hepatitis (HQL QCH) \$60,000. P.I.

1998 - 2000 Schering-Plough Integrated Therapeutics Group, Inc. Intron A Induction Protocol for Treatment of Patients with Chronic Hepatitis C Who do not qualify for combination study. R97-023. \$75,000 Co-P.I.

1998 - 1999 Schering-Plough Corp., Hepatitis C Screening Program: Detroit Police, Fire and EMS Personnel. \$150,000. Co-P.I.

1999 - 2001 Hoffman LaRoche, Inc. A phase III, randomized, multicenter, efficacy and safety study comparing the combination of pegylated-interferon-2a to rebetron in the treatment of patients with chronic HCV infection. PR#11-03-98(MO1)-FB. \$90,000. Co-P.I.

1999 - 2002 Schering-Plough Integrated Therapeutics Group, Inc. Intron A + Ribavirin for treatment of patients with chronic hepatitis C not previously treated with Interferon. R97-024. \$75,000. Co-P.I.

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- 2000 - 2003 Schering Integrated Therapeutics Group, Inc. Randomized multicenter trial comparing induction PEG-Intron A plus ribavirin vs PEG-Intron A plus ribavirin in patients who have previously not responded or have relapsed following Intron A based therapies for chronic hepatitis C, with maintenance therapy for patients who continue to remain non-responsive. \$30,000. Co-P.I.
- 2001 - 2003 Schering Integrated Therapeutics Group, Inc. Elevated ALT as a component of an algorithm for identifying patients with hepatitis C in urban primary care clinics: a look back study. \$150,000. Co-P.I.
- 2003 - 2005 Idenix. A randomized, double-blind trial of LdT (Telbivudine) versus Lamivudine, in adults with compensated chronic hepatitis B. \$11,000 Site P.I. Enrolled: 1
- 2004 - 2005 American Association for the Study of Liver Diseases, Clinical Hepatology Fellowship Program, \$98,000.
- 2004 - 2006 Roche Laboratories, Inc. A prospective, randomized, open-label study evaluating the viral kinetics and pharmacokinetics of Pegasys plus copegus and PEG-Intron plus Rebetol in Interferon-naïve patients with chronic hepatitis C. \$19,743. Site PI, Enrolled: 6. Protocol Number ML17756B
- 2005 - 2006 Idenix. A Phase IIb trial to evaluate the combination of pegylated interferon alfa plus valopicitabine (NM283) in treatment-naïve patients with chronic hepatitis C. \$29,911+. Enrolled: 6, Site PI, #420266
- 2006 - 2008 Roche Pharm., Inc. Randomized, multicenter, Double-Blinded, Phase IV Study Evaluating the Efficacy (as measured by Sustained Virological Response) and Safety of 360ug Induction Dosing of Pegasys in Combination with Higher Copegus Doses in Treatment-naïve Patients with Chronic Hepatitis C Genotype 1 Virus Infection of High Viral Titer and Baseline Body Weight Greater than or Equal to 85 kg., Site P.I., Study Initiated February, 2007, \$110,000 Enrolled (screened): 6, Protocol NV18210.
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PUBLICATIONS

1. Mutchnick, M.G., Mayeda, K. Elliptocytosis and the Rh factor. Am. J. Med. Tech., 38:1-5, 1972.
2. Mutchnick, M.G. Treatment of gonorrheal urethritis with a single dose of doxycycline monohydrate. Brit. J. Vener. Dis., 48:381-382, 1972.
3. Mutchnick, M.G., Lerner, E., Conn, H.O. Portal-systemic encephalopathy and portacaval anastomosis. A prospective controlled investigation. Gastroenterology, 66:1005-1019, 1974.
4. Conn, H.O., Ramsby, G.R., Storer, E.H., Mutchnick, M.G., et al. Intra-arterial vasopressin in the treatment of upper gastrointestinal hemorrhage: a prospective, controlled clinical trial. Gastroenterology, 68:211-221, 1975.
5. Ball, T.J., Mutchnick, M.G., Cohen, G.M., Burrell, M. Hemobilia following percutaneous liver biopsy. Gastroenterology, 68:1297-1299, 1975.
6. Mutchnick, M.G., Han, I.H., Johnson, A.G. Mouse thymocyte membrane uptake of polyadenylic-polyuridylic acid complexes. Proc. Soc. Exp. Biol. Med., 154:264-268, 1977.
7. Blitzer, B.D., Mutchnick, M.G., Joshi, P.H., Phillips, M.M., Fessel, J.M., Conn, H.O. Adrenocorticosteroid therapy in alcoholic hepatitis: a prospective, double-blind, randomized study. Am. J. Dig. Dis., 22:477-484, 1977.
8. Good, A.E., Cassidy, J.T., Mutchnick, M.G., Reed, R.E., Lederman, H.M. Ankylosing spondylitis with selective IgA deficiency and a circulating anti-coagulant. J. Rheumatol., 4:297-302, 1977.
9. Conn, H.O., Leevy, C.M., Vlahcevic, Z.R., Rodgers, J.B., Maddrey, W.C., Seeff, L., Levy, L.L., Mutchnick, M.G., et al. Comparison of lactulose and neomycin in the treatment of chronic portalsystemic encephalopathy: A double blind controlled trial. Gastroenterology, 72:573-583, 1977.
10. Mutchnick, M.G., White, D.S., Dopp, A.C. Influence of SRBC/lymphocyte ratio on T-cell rosettes in alcoholic liver disease and inflammatory bowel disease. Clin. Exp. Immunol., 30:277-282, 1977.
11. Atterbury, C.E., Maddrey, W.C., Conn, H.O., Mutchnick, M.G., et al. Neomycin-sorbitol and lactulose in the treatment of acute portalsystemic encephalopathy: A controlled, double-blind clinical trial. Am. J. Dig. Dis., 23:398-406, 1978.
12. Mutchnick, M.G., Kawanishi, H., Hopf, U. Absence of a liver specific membrane protein in a strain of Chang cells. Clin. Immunol. Immunopathol., 10:398-402, 1978.
13. Mutchnick, M.G., Goldstein, A.L. *In Vitro* thymosin effect on T lymphocytes in alcoholic liver disease. Clin. Immunol. Immunopathol., 12:271-280, 1979.
14. Dopp, A.C., Mutchnick, M.G., Goldstein, A.L. Thymosin-dependent T lymphocyte response in inflammatory bowel disease. Gastroenterology, 79:276-282, 1980.
15. Mutchnick, M.G., Missirian, A., Johnson, A.G. Lymphocyte cytotoxicity in human liver disease using rat hepatocyte monolayer cultures. Clin. Immunol. Immunopathol., 16:423-437, 1980.
16. Mutchnick, M.G., Lerner, E., Conn, H.O. Effect of portacaval anastomosis

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on hypersplenism. *Dig. Dis. Sci.*, 25:929-938, 1980.

17. Mutchnick, M.G., Lederman, H.M., Missirian, A., Johnson, A.G. *In vitro* synthesis of IgG by peripheral blood lymphocytes in chronic liver disease. *Clin. Exp. Immunol.*, 43:370-375, 1981.
18. Mutchnick, M.G., Keren, D.F. *In vitro* synthesis of antibody to specific bacterial lipopolysaccharide by peripheral blood mononuclear cells from patients with alcoholic cirrhosis. *Immunology*, 43:177-183, 1981.
19. Mutchnick, M.G., Good, A.E., Barlas, N., Goldstein, A.L. *In vitro* thymosin effect on T lymphocytes in ankylosing spondylitis. *Thymus*, 3:377-381, 1981.
20. Mutchnick, M.G., Prieto, J.A., Schaffner, J.A., Weller, F.E. Thymosin modulation of regulatory T cell function. *Clin. Immunol. Immunopathol.*, 23:626-633, 1982.
21. Mutchnick, M.G., Good, A.E., Barlas, N., Trainin, N. Thymic humoral factor effect on intracellular lymphocyte cAMP in patients with ankylosing spondylitis. *J. Rheum.*, 9:627-629, 1982.
22. Good, A.E., Mutchnick, M.G., Weatherbee, L. Duodenal ulcer, hepatic abscesses and fatal hemobilia with Behcet's syndrome: a case report. *Am. J. Gastro.*, 77:905-909, 1982.
23. Mutchnick, M.G., Schaffner, J.A., Prieto, J.A., Weller, F.E., Goldstein, A.L. Increased thymic hormone responsive suppressor T lymphocyte function in chronic active hepatitis. *Dig. Dis. Sci.*, 28:328-334, 1983.
24. Mutchnick, M.G., Keren, D.F., Weller, F.E., McClure, J.E., Goldstein, A.L. Measurement of thymosin alpha 1 by disassociation micro-ELISA. *J. Immunol. Methods*, 60:53-60, 1983.
25. Barlas, N., Mutchnick, M.G., Grant, G.J., Trainin, N. The effect of thymic humoral factor on intracellular lymphocyte cyclic AMP in alcoholic liver disease. *Thymus*, 5:433-437, 1983.
26. Weller, F.E., Mutchnick, M.G., Keren, D.F., Goldstein, A.L., Naylor, P.H. Micro-ELISA method for measurement of human serum thymosin alpha 1. *J. Immunol. Methods*, 80:45-53, 1985.
27. Weller, F.E., Mutchnick, M.G. Enzyme immunoassay measurement of thymosin beta 4. *J. Immunoassay*, 8:203-217, 1987.
28. Lee, H.H., Mutchnick, M.G. Quantitative analysis of mitogen-stimulated cellular proliferation: Effect of Concanavalin A and thymosin interaction. *International J. Bio-Med. Comput.*, 20:265-273, 1987.
29. Welch, R.A., Mutchnick, M.G., Weller, F.E., Sokol, R.J. Maternal and fetal circulating levels of thymosin alpha 1 during parturition. *Amer. J. Repro. Immunol. Microbiol.*, 13:125-127, 1987.
30. Weller, F.E., Mutchnick, M.G., Goldstein, A.L., Naylor, P.H. Enzyme immunoassay measurement of thymosin beta 4 in human serum. *J. Biol. Res. Mod.*, 7:91-96, 1988.
31. Mutchnick, M.G., Lee, H.H. Impaired lymphocyte proliferative response to mitogen in alcoholic patients. Absence of a relation to liver disease activity. *Alcohol. Clin. Exp. Res.*, 12:155-158, 1988.

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32. Mutchnick, M.G., Lee, H.H., Hollander, D.I., Haynes, G.D., Chua, D.C. Defective in vitro gamma interferon production and elevated serum thymosin beta 4 levels in patients with inflammatory bowel disease. Clin. Immunol. Immunopathol., 47:84-92, 1988.
33. Welch, R.A., Lee, H.H., Sokol, R.J., Mutchnick, M.G. Amniotic fluid thymosin alpha 1 levels increase during gestation. Amer. J. Repro. Immunol. Microbiol. 17:96-97, 1988.
34. Su, Y.-L., Ho, K.L., Dalakas, M.C., Mutchnick, M.G. Localization of immunoreactive thymosin alpha 1 in astrocytes of normal human brain. Ann. Neurol. 26: 277-280, 1989.
35. Ataya, K., Sakr, W., Blacker, C., Mutchnick, M. Effect of GnRH agonists on the thymus in female rats. Acta Endocrin. 121: 833-840, 1989.
36. Mutchnick, M.G., Cohen, I.A., Elta, G. Persistent immune deficiency in patients with alcoholic hepatitis. Am. J. Gastro. 85: 428-434, 1990.
37. Conteas, C.N., Mutchnick, M.G., Palmer, K.C., Weller, F.E., Luk, G.D., Naylor, P.H., Erdos, M.R., Goldstein, A.L., Panneerselvam, C., Horecker, B.L. Cellular levels of thymosin immunoreactive peptides are linked to proliferative events: Evidence for a nuclear site of action. Proc. Natl. Acad. Sci. U.S.A. 87: 3269-3273, 1990.
38. Colarian, J., Sethi, A., Merchant, A., Parikh, N., Mutchnick, M. Thymosin alpha 1 enhancement of human lymphocyte proliferation is not mediated by prostaglandin E₂. Thymus, 15: 241-247, 1990.
39. Elitsur, Y., Mutchnick, M.G., Sakr, W.A., Luk, G.D. Thymosin alpha 1 and thymosin beta 4 modulate human colonic lamina propria lymphocyte function. Immunopharm. 20: 89-96, 1990.
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 124. Swati Pawa, Murray Ehrinpreis, Milton Mutchnick, Ravi Dhar, Firdous Siddiqui, Percutaneous liver biopsy in chronic hepatitis C patients with End Stage Renal Disease is safe. *Gastroenterology*, April 2004 Vol 126, No. 4, Suppl 2 M1220, 719 - Poster presentation, DDW, May 2004
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In Patients with Hepatocellular Carcinoma in a Large Urban Medical Center
Presented at HEP DART in Hawaii, December 2005

128. **Daniaald Rodrigues, M.Mutchnick, Firdous Siddiqui.** The Most Current Trends in Hepatocellular Carcinoma; a Retrospective Study of Associated Risk factors in an Urban University Setting. *American Journal of Gastroenterology*, September 2006, Vol. 101, No.9, S 158:344
129. **Daryl Hutchinson, Tarek Dache, Milton Mutchnick, Firdous Siddiqui.** A Rare case of Thromboembolic Disease in a Patient with Crohn's Disease. *American Journal of Gastroenterology*, September 2006, Vol. 101, No.9, S423: 1078
130. **Swati Pawa, M.N. Ehrinpreis, M. Mutchnick, R. Dhar, J. Janisse, F. Siddiqui.** African American and Caucasian patients with chronic hepatitis C genotype 2 or 3 respond similarly to interferon-based therapies. *Journal of Hepatology*, April 2007, Vol. 46, Supplement No.1, S246: 650. Presented at the annual meeting of EASL, Barcelona, Spain. Received award for the top 10% of abstracts submitted.
130. **E. Lawitz, T. Nguyen, Z. Younes, J. Santore, N. Gitlin, D. McEniry, R. Chasen, J. Goff, D. Dieterich, S. Knox, K. Kleber, B. Belanger, N.A. Brown, M. Mutchnick.** Clearance of HCV RNA with valopicitabine (NM283) Plus PEG-interferon in treatment-naïve patients with HCV-1 infection: Results at 24 and 48 weeks. *Journal of Hepatology*, April 2007, Vol. 46, Supplement No. 1, S9: 14. Oral presentation, EASL, Barcelona, Spain.

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PRESENTATIONS, INVITED SEMINARS AND LECTURES (From 1981)

A. Local

1. Grand Rounds, Henry Ford Hospital, Detroit, MI, January 1981.
2. Invited Speaker - "Chronic Active Hepatitis-Pathophysiology and Management," Workshops in Internal Medicine, Wayne State University, April 22, 1981.
3. Grand Rounds, Harper-Grace Hospital, Detroit, MI, April 1981.
4. Invited Lecturer, American Liver Foundation (MI Branch), "Application of Thymic Hormones in Liver Disease" William Beaumont Hospital, Royal Oak, MI, August 17, 1983.
5. Grand Rounds, Sinai Hospital, Detroit, MI, November, 1983.
6. Grand Rounds - "Hepatic Coma Syndrome: Diagnosis and Management," Hutzel Hospital, August 23, 1984.
7. Invited Speaker, "A Day on Alcoholism for the Physician," Saint John Hospital, Detroit, MI, November, 1984.
8. Grand Rounds (Surgery) - "Acute Viral Hepatitis," Hutzel Hospital, Detroit, MI, December 12, 1984.
9. Grand Rounds - "Alcohol and the Liver," Grace Hospital, January 24, 1985.
10. Grand Rounds - "Chronic Hepatitis," Hutzel Hospital, May, 1985.
11. Grand Rounds - "Portal Systemic Encephalopathy (PSE)," Riverside Hospital, Detroit, MI, June 20, 1985.
12. Invited Speaker, Topic - "Cholestasis," Sinai Hospital, Detroit, MI, September, 1986.
13. Invited Speaker, Topic - "Treatment of Chronic Active Hepatitis," Henry Ford Hospital, Detroit, MI, March, 1987.
14. Invited Speaker, Topic - "Acute Viral Hepatitis," South Macomb Medical Center, Detroit, MI, April, 1987.
15. Invited Speaker, Topic - "Hepatitis B: Prevention and Treatment," Western Dental Society, Novi, MI, September, 1987.
16. Invited Speaker, Topic - "Thymosin Treatment of CAH-B," Henry Ford Hospital, Detroit, MI, January 14, 1988.
17. Grand Rounds - "Chronic Hepatitis B," Henry Ford Hospital, Detroit, MI, May 26, 1988.
18. Invited Speaker, Topic - "Update on Viral Hepatitis," St. Mary's Hospital, Livonia, MI, July 6, 1988.
19. Grand Rounds - "Treatment of Chronic Hepatitis," Beaumont Hospital, Royal Oak, MI, August 31, 1988.
20. Grand Rounds - "Treatment of Chronic Hepatitis B," Harper Hospital, Detroit, MI, September 7, 1988.
21. Liver Disease Seminar - "Viral Hepatitis Update - 1988," Holy Cross Hospital, Detroit, MI, October 26, 1988.

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22. Invited Speaker - "Review of Chronic Hepatitis B Infection and Promising New Therapies." The Detroit G.I. Society, Detroit, MI. September 6, 1989
23. Grand Rounds - "Chronic Hepatitis B - A Promising Therapeutic Approach," Harper Hospital, Detroit, MI. September 27, 1989
24. Invited Speaker - "Acute Viral Hepatitis," St. Joseph Hospital, Pontiac, MI. May 8, 1990.
25. Invited Speaker - "Treatment of Chronic Hepatitis B." Bon Secours Hospital, Grosse Pointe, MI. October 11, 1990.
26. Invited Speaker - "Medical Therapy of Chronic Viral Hepatitis," Annual Meeting of the Michigan State Medical Society, Dearborn, MI. November 8, 1990.
27. Invited Speaker - "Treatment of Chronic Hepatitis," William Beaumont Hospital, Royal Oak, MI. March 12, 1991.
28. Invited Speaker - "Treatment of Chronic Hepatitis," Henry Ford Hospital, Detroit, MI. March 19, 1991.
29. Invited Speaker - "Therapeutic Approaches to Chronic Hepatitis B." Providence Hospital, Detroit, MI. August 5, 1991.
30. Grand Rounds - "Portal Systemic Encephalopathy," Harper Hospital, Detroit, MI. August, 1991
31. Grand Rounds - "Fulminant Hepatic Failure," Harper Hospital, Detroit, MI, August, 1992
32. Moderator - National Hepatitis Detection and Treatment Program, Harper Hospital, October 15, 1992; January 27, 1993 and November 11, 1993.
33. Invited Speaker - "Hepatitis Update," Holy Cross Hospital, August 31, 1994.
34. Invited Speaker - "Patients with Hepatitis B and/or C," Bon Secours Hospital, September 29, 1994.
35. Invited Speaker - "Hepatitis C" St. John Hospital, October 28, 1994.
36. Grand Rounds - "Diagnosis and Treatment of Viral Chronic Hepatitis B and Chronic Hepatitis C." Harper Hospital, December 7, 1994.
37. Grand Rounds - "Acute and Chronic Hepatitis B and C" St. Joseph's Mercy Hospital, Pontiac, MI. April 4, 1995.
38. Invited Speaker - "Chronic Hepatitis C for the Primary Care Physician" Ritz-Carlton Hotel, Dearborn, MI June 4, 1996.
39. Symposium Speaker - Update in Treatment of Hepatitis B & C, Holy Cross Hospital, Detroit, MI October 30, 1996
40. Grand Rounds - "Diagnosis and Treatment of Chronic Hepatitis C," St. Joseph's Hospital, Pontiac, MI January 22, 1997.
41. Guest Speaker - "Update on Chronic Hepatitis C," Oakwood Hospital, Dearborn, MI February 5, 1997.
42. Invited Speaker - "Diagnosis & Treatment of Chronic Hepatitis C," Radisson

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Hotel, Southfield, MI. (Sponsored by Roche), April 9, 1997.

43. Grand Rounds - "Therapeutic Strategies in the Treatment of Chronic Hepatitis B and C" Harper Hospital, August 20, 1997
44. Invited Speaker - "Therapies in Chronic Viral Hepatitis," Morton's, Southfield, MI (Sponsored by Schering-Plough), March 5, 1998.
45. Medical Grand Rounds - " Treatment of Chronic Hepatitis C," Hutzel Hospital, March 13, 1998.
46. Medicine Grand Rounds - "Chronic Hepatitis C," Grace Hospital, May 5, 1998.
47. Invited Speaker - "Hepatitis Update," 5th Annual Gastroenterology Symposium, Holy Cross/Saratoga Hospital, August 26, 1998.
48. Invited Speaker - "Therapy: Pharmacologically Relapsed and Non Responding Patients," Symposium on Hepatitis C: A Primary Care Perspective. The Dearborn Inn, Dearborn, MI., October 17, 1998.
49. Faculty member and speaker, Treating Hepatitis C: Solutions for a Critical Need, Clinical Issues in Treating Hepatitis C Advisory Board, Athenum Hotel, Detroit, MI. December 4, 1998.
50. Moderator, Dinner seminar on Hepatocellular carcinoma, Bloomfield Hills, MI., December 7, 1998.
51. Moderator & Speaker, Update on Hepatitis C Symposium, Sponsor: University of Michigan, Novi Hilton, September 11, 1999.
52. Medical Grand Rounds - Hepatitis C- The Stealth Virus, Harper Hospital, November 17, 1999.
53. Residents Conference, Speaker, "Chronic Hepatitis C," Harper Hospital, April 28, 2000.
54. Speaker and host, "Achieving optimum outcomes: customizing treatment for patients with HCV infection," Marriott Hotel, Ren Cen, January 23, 2001
55. Speaker, Dinner Seminar on Chronic Hepatitis C, Detroit, Duets restaurant, June 12, 2001.
56. Speaker, "Hepatitis C," Michigan Assoc. of Occupational Health Professionals, November 8, 2001.
57. Advances in Hepatitis C Management, Troy, MI, October 1, 2002
58. Hepatitis C: The Silent Epidemic, Karmanos Cancer Center, November 20, 2002.
62. Medical Grand Rounds, Chronic Hepatitis C, St. Joseph's Hospital, Pontiac, MI. April 16, 2003.
63. Speaker, Dinner Seminar on Growth Factors in Hepatitis C, Southfield, MI. Nov. 13, 2003.

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64. Speaker, Dinner Seminar, Chronic Hepatitis C, Detroit, MI. Nov. 2003.

65. Speaker, Dinner Seminar, Retreatment Options in Chronic Hepatitis C, Southfield, MI. Jan. 27, 2004.

63. Speaker, Dinner Seminar, Retreatment Options in Chronic Hepatitis C, Farmington, MI. July 1, 2004

66. Invited Speaker, Dinner Seminar, Treatment of Chronic Hepatitis C, Royal Oak, MI., Nov. 11, 2004

67. F.Siddiqui, M.Ehrinpreis, R.Dhar, M.Mutchnick. Demographics of patients with chronic hepatitis C in a large urban medical center. Presented at the Raymond Murphy African-American Health conference September 2005

68. Medical Grand Rounds, Sinai Grace Hospital, Acute Liver Failure, Detroit, MI., February 2, 2006.

69. Chronic Liver Disease Foundation, Target HCV•HBV, CME=1.0
Southfield, MI., April 27, 2006
Southfield, MI., September 13, 2006
Southfield, MI., November 13, 2006
West Bloomfield, MI., December 4, 2006

70. St. John-Macomb Hospital Infectious Disease Symposium, Update on Viral Hepatitis, September 16, 2006

71. Detroit Rotary Club, Hepatitis C-The Stealth Virus, August 10, 2006.

72. Rush University CME Course, Hepatitis B Diagnosis and Treatment, CME=1.5, Ferndale, MI., June 14, 2007

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B. Regional

1. Invited Lecturer at The Earl E. Congdon Lecture Series "Update - Alcoholism and Its Medical Complications" Flint, MI, June 3, 1981.
2. Invited Speaker, "Portal Systemic Encephalopathy," American Association of Critical Care Nurses, Perrysburg, Ohio, September 8, 1982.
3. Invited Lecturer at Seminars in Gastroenterology, American College of Gastroenterology, "Alcoholic Hepatitis: Current Medical Management" and "Is There New Treatment for Alcoholic Cirrhosis" Flint, MI, September 11, 1982.
4. Grand Rounds - "Alcoholic Liver Disease," The Toledo Hospital, Toledo, OH, June 20, 1985.
5. Invited Speaker, "Alcoholic and the Liver," Flint Osteopathic Hospital, Flint, MI, September 5, 1985.
6. Invited Speaker - "Chronic Active Hepatitis", Saginaw Cooperative Hospitals, Saginaw, MI, April 22, 1986.
7. Visiting Professor, Division of Gastroenterology, Michigan State University, East Lansing, MI, August 23, 1988.
8. Grand Rounds - "Portal Systemic Encephalopathy," Hurley Medical Center, Flint, MI, October 20, 1988.
9. Invited Speaker, Topic - "PSE," St. Joseph's Hospital, Flint, MI, February 23, 1989.
10. Invited Speaker - Advances in Gastroenterology, Michigan State University, Lansing, MI, April 28, 1989. Topics: 1) Chronic Hepatitis-An Update; 2) Drug Induced (toxic) Hepatitis; and 3) Workshop-A practical approach to Portal Systemic Encephalopathy.
11. Invited Speaker, Topic - "Chronic Hepatitis," St. Joseph's Hospital, Flint, MI. May 5, 1989.
12. Invited Speaker - "New Treatment for Chronic Hepatitis B," ACP - Michigan Scientific Meeting, Traverse City, MI. October 11, 1990.
13. Invited Speaker - "The ABC(DE)'s of Viral Hepatitis," Michigan Nurses Association, Traverse City, MI. May 24, 1991.
14. Symposium Speaker - "Treatment of Chronic Hepatitis B - Thymosin," Conference on Chronic Viral Hepatitis, Mackinac Island, MI. Sept. 11, 1992.
15. Symposium Moderator - Case presentation, Symposium on Advances in Gastroenterology, The Upper GI Tract. Mackinac Island, MI. Sept. 11, 1994.
16. Invited Speaker - "Update on Treatment and Management of Chronic Hepatitis," GI Gut Club, Saginaw, MI. April 17, 1996.
17. Symposium Speaker - "Update on Chronic Hepatitis B and C" Gastroenterology and Hepatobiliary Diseases for Internists and Gastroenterologists, Mackinac Island, MI Sept. 6, 1996.
18. Grand Rounds (Medicine) - "Diagnosis & Treatment of Hepatitis C," Bronson Methodist Hospital, Michigan State University Kalamazoo Center for Medical Studies, Kalamazoo, MI. May 20, 1997.

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19. Invited Speaker - "A Critical Evaluation of the Current Status of Viral Hepatitis Treatment, American College of Gastroenterology Regional Postgraduate Course, Ypsilanti Marriott, Ypsilanti, MI June 22, 1997.
20. Invited Speaker and Workshop Moderator - "Hepatitis C Update." Third Annual Astra Merck Michigan Regional GI Consultants Conference. Mackinac Island, MI September 27, 1997.
21. Grand Rounds - "Diagnostic and Therapeutic Strategies in Chronic Hepatitis C," Hurley Medical Center, Flint, MI January 22, 1998
22. Invited Speaker, "Update on Hepatitis B and C" WSU Div. of Gastroenterology Symposium, Mackinac Island, MI, September 11, 1998.
23. Medical Grand Rounds - "An Approach to the Patient with Abnormal Liver Tests." Bronson Hospital, Kalamazoo, MI, Nov. 18, 1998.
24. Invited Speaker, "Chronic Hepatitis C - The Stealth Virus." Huron Valley Center, Ypsilanti, MI, October 19, 1999.
25. Course Director and Moderator, "Perspectives on Hepatitis B and C for the Primary Care Physician." Sponsor: WSU, Novi Hilton, Novi, MI. Oct. 30, 1999.
26. Medical Grand Rounds, "Chronic Hepatitis C - The Stealth Virus," Borgess Hospital, Kalamazoo, MI., Feb. 2, 2000.
27. Invited Speaker, "Differential Diagnosis and Treatment of Hepatitis C," Sponsor: MI Assoc. of Health Plans, Hotel Baronette, Novi, MI. May 24, 2000.
28. Moderator and Speaker. (1) Overview of Epidemiology and Diagnosis of Hepatitis C. (2) Current Strategies for the Treatment of Hepatitis C. Sponsor: Schering Oncology/Biotech, "Advances in Hepatitis C Management." Athenium Hotel, Detroit, MI. June 3, 2000.
29. Panel participant. Interactive Teleconference on the Diagnosis and Treatment of Chronic Hepatitis C. Henry Ford Hospital, Detroit, MI. June, 2000.
30. Invited Speaker. "Hepatitis C - The Stealth Virus," Michigan Professional Fire Fighters Union, Holiday Inn South, Lansing, MI. October 10, 2000.
31. Speaker, "Extrahepatic manifestations of HCV," Livonia Marriott, October 27, 2001.
32. Invited Speaker, Mercy Hospital, Medical Staff Conference, Monroe, MI. August 27, 2003.
33. Invited Speaker, Dinner Seminar, Retreatment Options in Chronic Hepatitis C., Traverse City, MI July 8, 2004.
34. Invited Speaker, Dinner Seminar, Retreatment Options in Chronic Hepatitis C., Jackson, MI November 3, 2004.
35. Invited Speaker, Retreatment Options in Chronic Hepatitis C., Toledo, Ohio December 2, 2004
36. Invited Speaker, Retreatment Options in Chronic Hepatitis C., Lansing, MI December 6, 2004

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37. Invited Speaker, Retreatment Options in Chronic Hepatitis C., Grand Rapids, MI December 13, 2004
38. Postgraduate Institute for Medicine, Managing Hepatitis C, Hot Topics 2006, Ann Arbor, MI., June 29, 2006
39. Invited Speaker, Resistance in the Treatment of Chronic Hepatitis B, Auburn, MI., April 19, 2007

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C. National

1. Research Seminar and Grand Rounds, Visiting Professor in Hepatology, The University of Arizona, March, 1982.
2. Research Seminar, The University of Vermont College of Medicine, April, 1982
3. Research Seminars, VA Medical Center, Washington, D.C., July, 1983.
4. Visiting Professor, Southern Nevada Memorial Hospital, November, 1983.
5. Research Seminars, University of Alabama in Birmingham, January, 1984.
6. Visiting Professor, Division of Gastroenterology-Hepatology, University of Iowa, July 9-10, 1986.
7. Visiting Professor, Dept. of Biochemistry, George Washington University, Topic - "The Thymosins - From the Amniotic Sac to the Liver," Washington, D.C., November, 1986.
8. Visiting Professor, Dept. of Biochemistry, George Washington University, Topic - "Thymosin beta 4 - A New Immunosuppressive Agent?" Washington, D.C., November 30, 1987.
9. Invited Speaker - "Thymosins: Structure, Function and Therapeutic Applications" and "Thymosin Therapy in Chronic Hepatitis B." Brown University, Rhode Island Hospital, Providence, Rhode Island. June 22, 1989.
10. Invited Speaker - "Treatment of Chronic Hepatitis B," Maricopa Medical Center, Phoenix, AZ. July 20, 1990.
11. Invited Speaker - "Current Therapy of Chronic Hepatitis B," Association of Military Surgeons of the United States, Plenary Session, Nashville, TN. November 13, 1990.
12. Invited Speaker - "Treatment of Chronic Hepatitis B," Malcolm Grow Medical Center, Andrews AFB, MD. November 30, 1990.
13. Invited Speaker - "Thymosin Treatment of Chronic Hepatitis B," NIAID Council Session, NIH, Bethesda, MD. January 24, 1991.
14. Invited Speaker - "Thymosin: An Innovative Approach to the Treatment of Chronic Active Hepatitis B." First International Symposium on Combination Therapies, Washington, D.C. March 15, 1991.
15. Invited Speaker - "Thymosin: An Innovative Approach to the Treatment of Chronic Hepatitis B" and "Thymosin alpha 1: An Immunologic Modulator and Growth Factor." Georgia Rheumatism Society, St. Simons Island, GA. May 30, 1991.
16. Invited Speaker - "Fulminant Hepatic Failure," Annual meeting of the New Jersey Gastroenterological Society/N.J. Society for Gastrointestinal Endoscopy, Great Gorge, New Jersey, June 13, 1992.
17. Invited Speaker - "Treatment of chronic hepatitis B" and "Fulminant liver failure," Montclair Baptist Medical Center, Birmingham, Alabama, Sept 18, 1992.
18. Invited Speaker - "Thymosin treatment of Chronic Hepatitis B," Medical Grand Rounds, Community Hospital, Indianapolis, Indiana, January 13, 1993.

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19. Invited Faculty - "Thymosin therapy of chronic B hepatitis," Hepatobiliary Disease in Clinical Practice: Update X., University of Miami School of Medicine, Sheraton Bal Harbour, Florida, March 25-27, 1993.
20. Invited Speaker - "Portalsystemic Encephalopathy," Pottsville GI Society, Pottsville, PA, September 28, 1993.
21. Invited Speaker and Session Moderator - Third International Symposium on Combination Therapies, Houston, TX, October 29-31, 1993.
22. Invited Speaker - "Diagnosis & Treatment of Chronic Hepatitis B and C" VA Medical Center, Phoenix, AZ. March 29, 1995.
23. Session(s) Moderator - "Hepatologists view of the NIH Consensus Conference," Rebetol Investigators' Meeting, Fajardo, Puerto Rico. January 30-31, 1998.
24. Invited Speaker - "Hepatitis C - The Stealth Virus," Annual Meeting of the American College of Occupational and Environmental Medicine, Phoenix, AZ. Oct. 21, 1998
25. Invited Speaker - "Hepatitis C - The Stealth Virus." Association of Military Surgeons of the United States, San Antonio, TX, Nov. 8, 1998.
26. Session Moderator - "Hepatitis C - Aftermath of NIH Consensus Report," Palm Springs, CA. Feb. 4-7, 1999.
27. Invited Speaker - 'Chronic Hepatitis C - The Stealth Virus,' Padre Island, Texas, Holiday Inn Convention Center, May 1-13, 2001.
28. Invited Speaker - Emerging Advances in HCV Management, The University Place Conference Center, Indianapolis, IN., October 24, 2003
29. Invited Speaker - Retreatment Options in Chronic Hepatitis C. St. Louis, MO. February 25,
30. Invited Speaker - Retreatment Options in Chronic Hepatitis C. Peoria, IL. March 4, 2004
31. Invited Speaker - Retreatment Options in Chronic Hepatitis C. Kansas City, MO. March 30, 2004.
32. Invited Speaker - Retreatment Options in Chronic Hepatitis C. Cincinnati, OH. May 5, 2004.
33. Invited Speaker - Retreatment Options in Chronic Hepatitis C. Chicago, IL. May 13, 2004.
34. Invited Speaker - Retreatment Options in Chronic Hepatitis C. Canton, OH. June 17, 2004.
35. Invited Speaker - Retreatment Options in Chronic Hepatitis C. Dayton, OH. July 22, 2004.
36. Invited Speaker - Retreatment Options in Chronic Hepatitis C. Minneapolis, MN. August 12, 2004.
37. Invited Speaker - Retreatment Options in Chronic Hepatitis C. Nashville, TN. August 19, 2004.

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38. Invited Speaker - Retreatment Options in Chronic Hepatitis C. Rosemont, IL., August 25, 2004.
39. Invited Speaker - Retreatment Options in Chronic Hepatitis C. Lubbock, TX., Fort Worth, TX. October 13 and 14, 2004.
40. Invited Speaker - Growth Factors in Chronic Hepatitis C. Cleveland, OH. October 20, 2004.
41. Invited Speaker - Retreatment Options in Chronic Hepatitis C. New York, NY. October 21, 2004
42. Invited Speaker - Retreatment Options in Chronic Hepatitis C. Austin, TX. November 16, 2004.
43. **Postgraduate Institute for Medicine, Managing Hepatitis C - The Stealth Virus, CME=1.5**
 - Virginia Beach, VA., July 20, 2006
 - Sarasota, FL., August 10, 2006
 - Dayton, OH., December 7, 2006
44. **Purdue University Recent Educational Advances in Chronic HBV, CME=1.5**
 - Chicago, IL., August 15, 2006
 - Lowell, MA., October 12, 2006
 - Rochester, NY., November 16, 2006
45. **Invited Speaker, New Advances in the Treatment of Chronic Hepatitis C, South Bend, IN., May 3, 2007**
46. **Invited Speaker, New Advances in the Treatment of Chronic Hepatitis C, Muskegon, MI., June 28, 2007**

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D. International

1. Visiting Professor, Sackler Faculty of Medicine, Tel-Aviv University, Israel, February, 1983 (one week).
2. Visiting Professor, Edith Wolfson Hospital, Holon, Israel, April, 1983.
3. Visiting Professor, Sheba Medical Ctr., Beersheva, Israel, April, 1983.
4. Visiting Professor, The Liver Institute, Tianjin, Peoples Republic of China, December, 1985.
5. Grand Rounds - "Acute Viral Hepatitis," September 14, 1989, and "Esophagitis," September 22, 1989, Comayagua Regional Medical Center, Comayagua, Honduras, C.A.
6. Invited Speaker - "Thymosin Treatment of Chronic Active Hepatitis B," Italian Society of Hepatology, Sclavo Research Center, Sienna, Italy. February 26, 1990.
7. Invited Speaker - "Thymosin Treatment of Chronic Active Hepatitis B," Second University of Rome, Rome, Italy. February 27, 1990.
8. Invited Speaker - "Thymosin Treatment of Chronic Hepatitis B," Korean Association for the Study of the Liver, Catholic University Medical College, Seoul, Korea. December 7, 1990.
9. Invited Speaker - "Long term response to thymosin therapy in patients with chronic hepatitis B." Symposium on Therapy in Liver Diseases, Milan, Italy. April 1, 1992.
10. Invited Speaker - "Sustained response to thymosin therapy in patients with chronic active hepatitis B," Second International Symposium on Combination Therapies, Catania-Sicily, Italy. May 3, 1992.
11. Invited Speaker - "Thymosin treatment of chronic hepatitis B - Phase II and Phase III studies," Caracas, Venezuela. September 22, 1992.
12. Visiting Professor - University of Marmara, Istanbul, Turkey. October 18-19, 1993.
13. Invited Speaker, Second International Symposium on Viral Hepatitis and Hepatocellular Carcinoma, Hong Kong. November 26-28, 1993.
Topics: 1. Thymosin treatment in chronic active hepatitis B
2. Combination prednisone and thymosin alpha 1 in the treatment of autoimmune hepatitis
14. Invited Speaker, Singapore Gastroenterological Society, Singapore. December 8, 1993. Topic: Thymosin alpha 1: New treatment for chronic hepatitis B.
15. Invited Speaker, Symposia on the Recent Management of liver Diseases in Children, Jakarta, Hilton Convention Center, Indonesia. December 11, 1993.
Topic - Thymosin Treatment of Chronic Hepatitis B
16. Invited Speaker and Session Chairman, Fourth International Symposium on Combination Therapies, Sardinia, Italy. June 16, 1994.
Topic - Use of Thymus Derived Peptides in the Treatment of Chronic Hepatitis B
17. Invited Speaker and Session Co-Chairman, 9th Mediterranean Congress of Chemotherapy, Milan, Italy. June 17, 1994

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- Topic: Thymic Peptide Therapy of Chronic Hepatitis B and Chronic Hepatitis C
18. Invited Speaker, Tel Hashomer Medical Center/Sackler Medical School, Tel Aviv, Israel. October 11, 1994.
Topic: Thymic Peptide Therapy of Chronic Hepatitis B and Chronic Hepatitis C
 19. Invited Speaker, Marmara University Symposium on Chronic Hepatitis, Istanbul, Turkey. October 14-15, 1994.
Topic: Thymic Peptide Therapy of Chronic Hepatitis B and Chronic Hepatitis C
 20. Invited Speaker, 2nd International Thymus Symposium, Nonnweiler, Germany, May 17-19, 1996.
Topic: Results of a Phase III Trial of Thymosin α_1 in Chronic Hepatitis B.
 21. Symposium Speaker, Sevgi Hospital, Turkish Surgical Society, Ankara, Turkey. Sept. 28, 1996.
Topic: Hepatocellular Carcinoma
 22. Symposium Speaker, Marmara University, Istanbul, Turkey, October 1, 1996.
Topic: Hepatocellular Carcinoma
 23. Visiting Professor, Pontificia Universidade Catolica do Parana, Curitiba, Brazil Nov 18-20, 1996
Topic: Chronic Viral Hepatitis B and C
Acute Viral Hepatitis
 24. Symposium Speaker, 1^aJornada Paranaense de Controle de Doencas Infecciosas, Curitiba, Brazil, Nov. 19, 1996.
Topic: Update on Chronic Hepatitis B and C
 25. Invited Speaker, XXIV Annual Convention, Peruvian American Medical Society, Chiclayo, Peru, July 4, 1997.
Topic: Treatment of Chronic Hepatitis: New Protocols
 26. Invited Speaker, Clinical Day 1997 Gastroenterology and Endocrinology, Windsor, ONT. Oct. 28-29, 1997.
Topic: 1. Hepatitis into the Millennium: New viruses, new treatments
2. Approach to the patient with elevation of liver enzymes
3. Hepatitis B&C: Current and future investigations and management
 47. Invited Speaker - "Update on Chronic Hepatitis B and C," Twenty fourth International Congress of Internal Medicine, Lima, Peru. Nov. 4, 1998.
 48. Invited Speaker - "Current and Future Therapies for Chronic Hepatitis B and C," Center for Medical Innovations, Munich, Germany. June 25, 1999.
 49. Visiting Professor & Invited Speaker - "Hepatitis C - The Stealth Virus," Maulana Azad Medical College, G.B. Pant Hospital, New Delhi, India. Feb. 4, 2000.
 50. Visiting Professor and Speaker, "Chronic Hepatitis C" Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, India. Feb. 7, 2000.
 51. Invited Speaker - "Recent Advances in Hepatitis C" Owaisi Hospital, Deccan College of Medical Sciences, Hyderabad, India. Feb. 9, 2000.
 52. Professor P. Raghavan Memorial Speaker, "Hepatitis C - The Stealth Virus," Seth GS Medical College, Mumbai (Bombay), India. Feb. 11, 2000.