

CHAIM PUTTERMAN, MD

Medical Education

1978-1985 M.D., *cum laude*; Technion - Israel Institute of Technology, Faculty of Medicine, Haifa, Israel

Medical Training

1985 Internship, Rambam Medical Center, Haifa
1986-1990 Military service, Israel Defense Forces. Brigade Medical Officer/
Commanding Officer, Schneller Military Hospital, Jerusalem
1990-1992 Residency in Internal Medicine, Hadassah University Hospital, Jerusalem
1993 Chief Resident, Department of Medicine, Hadassah University Hospital, Jerusalem
1994-1996 Rheumatology Fellow, Albert Einstein College of Medicine, Bronx, New York

Awards

1993 Outstanding Resident Award, Hadassah University Hospital
1996 American College of Rheumatology Travel Award
1994-1997 Arthritis Foundation Physician-Scientist Career Development Award
1997-2000 Robert Wood Johnson Charitable Trust SLE Young Scholar Award
1997-2002 NIH-NIAMS KO8 Clinical Scientist Award
1998 Kroc Visiting Professor of Rheumatology, UCLA School of Medicine
2000-2005 Arthritis Foundation Hulda Irene Duggan Arthritis Investigator Award
2001-2004 Lupus Research Institute (SLE Foundation) Novel Research Project in Lupus Award
2002 Arthritis Foundation Research Steps to a Cure Leadership Award
2003 American Association of Immunologists Junior Faculty Travel Award
2004 Parvis Lalezari Award for Research Excellence
2004 American Association of Immunologists Faculty Mentor/Minority Trainee Award
2006 Samuel M. Rosen Award for Outstanding Teaching in the Pre-Clinical Curriculum
2006 American College of Rheumatology/Research and Education Foundation
Medical Student Preceptorship Award
2007 Election to the American Society for Clinical Investigation
2007 Election to the Leo M. Davidoff Society (Outstanding achievement in teaching)
2008 Faculty inductee to Alpha Omega Alpha Honor Medical Society
2008 American College of Rheumatology/Research and Education Foundation
Medical Student Preceptorship Award

Academic Appointments

1992 Instructor in Medicine, Hadassah-Hebrew University School of Medicine (Jerusalem)
1992-1993 Lecturer in Medicine, Hadassah-Hebrew University School of Medicine (Jerusalem)
1994-1997 Postdoctoral Research Fellow, Laboratory of Dr. Betty Diamond,

Albert Einstein College of Medicine, NY

1997-1998 Instructor in Medicine, Division of Rheumatology, Department of Medicine, Albert Einstein College of Medicine

1998-2003 Assistant Professor, Division of Rheumatology, Department of Medicine, Albert Einstein College of Medicine

1998-2004 Assistant Professor, Department of Microbiology and Immunology, Albert Einstein College of Medicine

2003- Associate Professor, Division of Rheumatology, Department of Medicine, Albert Einstein College of Medicine

2004- Associate Professor, Department of Microbiology and Immunology, Albert Einstein College of Medicine

2004- Director, Fellowship Program, Division of Rheumatology, Albert Einstein College of Medicine

2004- Chief, Division of Rheumatology, Albert Einstein College of Medicine and Montefiore Medical Center

2008- Professor, Division of Rheumatology, Department of Medicine, Albert Einstein College of Medicine

2008- Professor, Department of Microbiology and Immunology, Albert Einstein College of Medicine

Clinical Appointments

1997- Attending, Jacobi Medical Center

1997- Attending, North Central Bronx Hospital Center

1997- Attending, Jack D. Weiler Hospital

1997- Attending, Montefiore Medical Center - the University Hospital of the Albert Einstein College of Medicine

1997-2004 Director, Arthritis Clinic, Montefiore Medical Center

Local Committees and Professional Activities

1. Sue Golding Graduate School Admissions Committee (1999-2001)
2. Faculty Advisor, Medical Student Thesis Projects (1999, 2000, 2005)
3. Education Committee, Department of Microbiology & Immunology (2000)
4. Member, Center for Continuing Medical Education, Albert Einstein College of Medicine (2001-)
5. Member, Master's Thesis and Doctoral Dissertation Thesis Committees (2002-)
6. Member, Sue Golding Graduate School Qualifying Exam Committee (2002-2003)
7. Member, Albert Einstein College of Medicine Admissions Committee (2002-2004)
8. Albert Einstein College of Medicine Faculty Senate (2003-)
9. Chair (Ad-hoc) for an Associate Professor Promotion Committee (2004)
10. Member, Chief of Dermatology Search Committee (2004-2005)
11. Member, Department of Medicine Research Steering Committee (2004-2005)
12. Member, Basic Science Course Leaders Committee (2004-)
13. Committee on Appointments and Promotions to Associate Professor (2004-2006)
14. Reviewer, Einstein/MMC Center for AIDS Research (2004-)
15. Member, Committee on Graduate Medical Education (COGME) (2004-2006)

16. Division of Education, Albert Einstein College of Medicine (2005-)
17. Scientific Foundations of Medicine Committee (2005-)
18. Liaison Committee on Medical Education (LCME) Institutional Task Force (2005-2006)
19. LCME Institutional Task Force, Educational Program (MD Degree) subcommittee (2005-2006)
20. Co-Chair, Scientific Foundations of Medicine Committee (2006-2008)
21. Dean's Ad-Hoc Committee on Conflict of Interest (2008)
22. Arthritis Foundation New York Chapter Research Task Force (2009)
23. Chair, Chief of Geriatrics Search Committee (2009-)

Regional/National/International Professional Activities and Committees

1. Member, Medical and Scientific Committee, Arthritis Foundation, New York Chapter (1997-).
2. *Arthritis Research and Therapy*, Editorial paper reporter (1999-2000).
3. Member, Medical and Scientific Board, SLE Foundation (2000-).
4. Session Chair, American College of Rheumatology 64th Annual Meeting, "Pathogenesis of End-Organ Diseases in Lupus", Philadelphia, PA, 11/2000.
5. American College of Rheumatology National Meeting Abstract Selection Committee, 2001-2003.
6. Invited Moderator, American College of Rheumatology 65th Annual Meeting, "Animal models of lupus" San Francisco, CA 11/2001.
7. Member, Fellowship Grant Committee, Arthritis Foundation, New York Chapter (2002, 2003).
8. Chairman, Medical Advisory Board, Lupus Foundation of America-Bronx Chapter (2002-2006).
9. Session Chair, American College of Rheumatology 66th Annual Meeting, "New Therapeutic Targets in Lupus", New Orleans, LA, 10/2002.
10. Session Chair, Scientific presentations, 15th and 16th Annual Paul Klemperer Award, New York Academy of Medicine, New York, NY 10/2002, 10/2003.
11. Associate Editor, *Clinical and Developmental Immunology* (2003-).
12. Vice Chair, Medical and Scientific Committee, Arthritis Foundation, NY Chapter (2003-2004).
13. Member, Paul Klemperer Award Committee, New York Academy of Medicine (2004).
14. Sentinel Reader, McMaster University Online Rating of Clinical Evidence (MORE) (2004-2006).
15. Session Chair, "Chemokines and Inflammation", Experimental Biology/American Association of Immunologists, Washington, D.C., 4/2004.
16. Session Chair, 7th International Conference on SLE and Related Disorders, "Target Organ Involvement: Organ Specificity", New York, NY, 5/2004.
17. Chair, Medical and Scientific Committee, Arthritis Foundation, New York Chapter (2004-2006).
18. Member, Board of Governors, Arthritis Foundation, New York Chapter (2001-2007).
19. Session Chair, American College of Rheumatology 68th Annual Meeting, "Immunology Update: B cell Biology", San Antonio, TX, 10/2004.
20. Session Chair, American College of Rheumatology 68th Annual Meeting, "Novel Genes and Pathways in the Pathogenesis of Murine SLE", San Antonio, TX, 10/2004.
21. American College of Rheumatology National Meeting, Chair of "SLE-Animal Models" Abstract Selection Category, 2004-2005.
22. American College of Physicians-ACP Medicine, peer review board (2004-).
23. Member, Budget and Finance Committee, Arthritis Foundation, New York Chapter (2004-).
24. Co-Chair, session of "Autoimmune Aspects of Pregnancy and Infertility", 4th International Conference in Autoimmunity, Budapest, Hungary, 11/2004.
25. Editorial Board, *Autoimmunity Reviews* (2005-).

26. Director, Albert Einstein College of Medicine Federation of Clinical Immunology Societies (FOCIS) Center of Excellence (2005-).
27. Session Chair, American College of Rheumatology 68th Annual Meeting, “Novel Mechanisms in the Pathogenesis of SLE”, San Diego, CA 11/2005.
28. International Organizing Committee, 5th International Congress on Autoimmunity, Sorrento, Italy, 11/2006.
29. National Board of Medical Examiners (NBME)/American College of Rheumatology exam question writer and reviewer (2006-).
30. Editorial Board, *Biology Direct (Immunology Section)* (2006-).
31. Session Chair, American College of Rheumatology 69th Annual Meeting, “SLE-Animal Models”, Washington, D.C. 11/2006.
32. Session Chair, 5th International Congress on Autoimmunity, “Experimental Models of Autoimmune Diseases”, Sorrento, Italy, 11/2006.
33. Session Co-Chair, Biomarkers and New Therapies in SLE Workshop, “Pathogenesis of Anti-DNA Antibodies”, London, United Kingdom, 2/2007.
34. Editorial Board, *Clinical and Translational Science* (2007-).
35. Editorial Board, *The Open Rheumatology Journal* (2007-).
36. International Organizing Committee, 6th International Congress on Autoimmunity, Porto, Portugal, 9/2008.
37. International Organizing Committee, 7th International Congress on Autoimmunity, Ljubljana, Slovenia, 5/2010.
38. Editorial Board, *The Open Autoimmunity Journal* (2009-).

Regional/National/International Invited Grant Reviews

Veterans Affairs Merit Review Research Grants
 City University of New York Research Award Program
 Arthritis Research Campaign (United Kingdom)
 SLE Foundation Research Award Program
 Member, NIH-CSR-EDC-3 Study Section (2002)
 Member, NIH-NIAMS Special Grants and Special Emphasis Review Committees (2002, 2003, 2004)
 Member, NIH-NIAMS High Risk Applications Study Section (2003, 2004)
 Member, National Disease Research Interchange Project Review Committee (2004-)
 Member, NIH Immunology IRG Special Study Section for Systemic Lupus Erythematosus (2005)
 Member, NIH Renal and Urological Sci. IRG, Pathobiology of Kidney Disease Study Section (2006)
 Member, NIH Immunology Special Emphasis Panel (2009)
 FOCIS-TSS Abstract Review Committee (2008)
 Netherlands Genomics Initiative/Netherlands Organization for Scientific Research
 German Israel Foundation for Research and Development
 Iceland Post-Genomic Biomedicine and Nanotechnology Research Program
 DG-German Science Foundation
 New Jersey Medical School Cancer Center Research Program
 Lupus Research Institute Grant Program
 Lupus Foundation of America Grant Program
 Agency for Science, Technology and Research (A*STAR) Biomedical Research Council (Singapore)

Research Grants Council, Hong Kong
Dutch Arthritis Association (Rheumafonds)
Arthritis Foundation, Southern California Chapter (2009)
Israel Ministry of Science and Technology (2009)

Invited Journal Reviewer

Journal of Clinical Investigation, Proceedings of the National Academy of Sciences (USA), Nature Reviews: Drug Discovery, Journal of Immunology, Lancet, Annals of Internal Medicine, Arthritis and Rheumatism, Trends in Immunology, Arthritis Research and Therapy, Journal of Biological Chemistry, Clinical Chemistry, American Journal of Pathology, Transplantation, Immunology, Human Immunology, Journal of the American Society of Nephrology, Kidney International, Journal of Rheumatology, Lupus, American Journal of Physiology: Renal Physiology, Journal of Clinical Immunology, Journal of Autoimmunity, Clinical and Experimental Immunology, Cytokine, Journal of Reproductive Immunology, Journal of Molecular Biology, Journal of Infectious Diseases, Annals of the Rheumatic Diseases, Rheumatology, Scandinavian Journal of Rheumatology, Clinical Immunology, Autoimmunity Reviews, American Journal of Kidney Diseases, PLoS One, The Tohoku Journal of Experimental Medicine, Behavioral Brain Research, Journal of Neuroimmunology, Journal of Neuroscience, Molecular Neurobiology

Major Teaching Responsibilities

1. Lecturer and Discussion group leader, Rheumatic and Orthopedic Diseases, Albert Einstein College of Medicine (1995-)
2. Lecturer (2004-) and Discussion group leader, Graduate Immunology Course, Sue Golding Graduate School, Albert Einstein College of Medicine (1996-)
3. Lecturer and Discussion group leader, Immunology Course, Albert Einstein College of Medicine (1997-)
4. Preceptor and Lecturer, MD-PhD Internal Medicine Continuity Clinic (1997-1998, 2001-2004)
5. House Staff Education (Morning report/Noon Conference/Grand Rounds/Lectures):
 - a. Jacobi Medical Center (1997-)
 - b. Montefiore Medical Center (Weiler and Moses) (1997-)
 - c. Rheumatology Fellow Orientation Course (1998-)
6. Lecturer, Mechanisms of Disease Course, Sue Golding Graduate School, Albert Einstein College of Medicine (2003-)
7. Faculty Facilitator, Graduate Course in Critical Reading, Sue Golding Graduate School, Albert Einstein College of Medicine (2004-).
8. Course leader, Rheumatic and Orthopedic Diseases, Albert Einstein College of Medicine (2004-)
9. Lecturer, Course in Responsible Conduct of Research, Sue Golding Graduate School, Albert Einstein College of Medicine (2006-).
10. Faculty Facilitator, Graduate Course in Advanced Mammalian Genetics, Sue Golding Graduate School, Albert Einstein College of Medicine (2006-).

CME Leadership Activities

1. Administrative Editor, Continuing Medical Education, *Medical Clinics of North America* (1997-2000)
2. Course Director: The Continuing Challenge of Osteoporosis. Supplement, The Female Patient, 2000 (Albert Einstein College of Medicine and Montefiore Medical Center).
3. Course Director: Bone Degeneration and Osteoporosis. Supplement, The Female Patient, 2001 (Albert Einstein College of Medicine and Montefiore Medical Center).
4. Course Director: Managing Arthritis with COX-2 Specific Inhibitors. Audio CME activity, 2001 (Albert Einstein College of Medicine and Montefiore Medical Center).
5. Course Director: Damage Control: Recent Biologic Breakthroughs in Rheumatoid Arthritis. Three part teleconference, 2002 (Albert Einstein College of Medicine and Montefiore Medical Center).
 - a) Structural Maintenance
 - b) Infusion Protocol
 - c) Safety Assessment
6. Course Director: "COX-2 Inhibitors in the Management of Osteoarthritis". Monograph, 2003 (Albert Einstein College of Medicine and Montefiore Medical Center)
7. Course Director: "Guidelines in Rheumatology: The Diagnosis and Management of Ankylosing Spondylitis". Monograph, 2004 (Albert Einstein College of Medicine and Montefiore Medical Center).
8. Course Faculty, "Diagnosis and Treatment of Early Rheumatoid Arthritis", Cyberrounds, eCME activity, 5/2004 (Albert Einstein College of Medicine and Montefiore Medical Center).
9. Course Director, "A Practical Approach to the Patient with Chronic Musculoskeletal Pain", Monograph (a supplement to the Clinical Advisor, May 2005), (Albert Einstein College of Medicine and Montefiore Medical Center).
10. Course Director, Invited Speaker, and Monograph "Current Concepts in Rheumatoid Arthritis", Infusion Nurses Society 2006 Annual Conference, Reno, NV, May 2006
11. "Systemic Lupus Erythematosus: Novel Aspects of Pathogenesis and Treatment", in Shoenfeld, Y. (ed.), *Frontiers of Research in Autoimmunity: Etiology, Pathogenesis, Clinical Manifestation and Diagnostic Methodologies*, The Biomedical & Life Sciences Collection, Henry Stewart Talks Ltd, London (online at <http://www.hstalks.com/?t=BL0161430-Putterman>), 2007
12. Course Director: "Rheumatoid Arthritis Consult Collection: State of the art approaches to treatment (Part I)", Monograph (a Supplement to the American Journal of Orthopedics, 36:2-20), March 2007.
13. Course Director: "Rheumatoid Arthritis Consult Collection: State of the Art approaches to treatment (Part II)", Monograph (a Supplement to the American Journal of Orthopedics, 36:2-25), July 2007.

Invited Lectures/Speaking Engagements

1. "Identification of Antigenic Triggers and Cross-Reactive Targets of Anti-DNA Antibodies Using Peptide Libraries", Department of Immunology, University of Cincinnati School of Medicine, Cincinnati, OH, 4/1998.

2. "Anti-DNA Antibodies: What Do They Do and Where Do They Come From?", Rheumatology Grand Rounds, UCLA School of Medicine, Los Angeles, CA, 5/1998.
3. "Anti-DNA Antibodies: What Do They Do and Where Do They Come From?", Department of Medicine Research Seminar, Stony Brook School of Medicine, Stony Brook, NY, 6/1998.
4. "Immunization With a Peptide DNA Surrogate Induces Lupus-like Autoimmunity", 4th International Anti-DNA Antibody Workshop, Jerusalem, Israel, 11/1998.
5. "Anti-DNA Antibodies and Lupus Nephritis", Department of Medicine Grand Rounds, Montefiore Medical Center, Bronx, NY, 2/1999.
6. "Renal Pathogenicity of Anti-DNA Antibodies", Department of Medicine Research Seminar, Albert Einstein College of Medicine, Bronx, NY, 4/1999.
7. "Peptide Mimetopes for Anti-DNA Antibodies", SLE Research Seminar, SLE Foundation, New York, NY, 10/1999.
8. "Peptide Immunization in Experimental Lupus", Department of Medicine Research Seminar, Sheba Medical Center, Tel-Hashomer, Israel, 2/2000.
9. "Peptide Mimetopes For Anti-DNA Antibodies in Systemic Lupus Erythematosus", Lautenberg Center for Immunology, Hebrew University, Jerusalem, Israel, 2/2000.
10. "Research In SLE and Lupus Nephritis", Department of Medicine Research Seminar, Albert Einstein College of Medicine, Bronx, NY, 4/2000.
11. "Peptide Mimetopes for Pathogenic Anti-DNA Antibodies", Renal Grand Rounds, Division of Nephrology, Albert Einstein College of Medicine, Bronx, NY, 4/2000.
12. "A 57 year old woman with vasculitis and a history of SLE", A Clinical-Pathological Conference, Jacobi Hospital, Bronx, NY, 6/2000.
13. "Cross-reactivity of anti-DNA Antibodies With non-DNA Antigens", NYU/Hospital for Joint Disease Rheumatology Research Grand Rounds, New York, NY, 3/2001.
14. "A 56 year old woman with joint pains and dyspnea on exertion", A Clinical-Pathological Conference, Beth Israel Medical Center, New York, NY, 3/2001.
15. "Anti-DNA Antibodies: Where do they come from and what do they do?", Department of Microbiology & Immunology, CUNY Medical School, New York, NY, 5/2001.
16. "Mechanisms of Autoimmunity", New Jersey Rheumatology Association, Iselin, NJ, 9/2001.
17. "New Directions in the Diagnosis and Treatment of SLE", Medical staff lecture, UMDNJ, Newark, NJ 1/2002.
18. " α -Actinin is a Cross-reactive Renal Target for Pathogenic Anti-dsDNA Antibodies", 5th International Anti-DNA Antibody Workshop, London, UK, 2/2002.
19. "Update on the Pathogenesis of SLE", Dermatology Grand Rounds, Albert Einstein College of Medicine, Bronx, NY, 2/2002.
20. "Perspectives on the Cross-Reactivity and Pathogenicity of anti-dsDNA Antibodies", NYU/Hospital for Joint Disease Rheumatology Research Grand Rounds, New York, NY, 5/2002.
21. "SLE, Anti-DNA Antibodies, and Lupus Nephritis". Department of Medicine Research Seminar, Bikur Cholim Hospital, Jerusalem, Israel, 12/2002.
22. "The Antigenic Triggers and Molecular Targets of Anti-DNA Antibodies in NZB x NZW F1 Mice", Research Seminar, Biogen, Cambridge, MA, 2/2003.
23. "New Approaches to the Treatment of SLE", Department of Medicine Grand Rounds, Mary Immaculate Medical Center, Queens, NY, 2/2003.
24. "Pathogenic Antibodies to dsDNA", NYU Seminar in Advanced Rheumatology, New York, NY 3/2003.

25. "New Insights into Anti-DNA Antibodies and Lupus Nephritis", Department of Medicine Grand Rounds, Montefiore Medical Center, Bronx, NY, 3/2003.
26. "Systemic Lupus Erythematosus", Update in Rheumatology 2003, UMDNJ-New Jersey Medical School, Newark, NJ, 4/2003
27. "Peptide Immunization Model of Induced SLE", Department of Medicine B Research Seminar, Sheba Medical Center, Tel-Hashomer, Israel, 4/2003.
28. "Novel Mechanisms in the Renal Pathogenicity of Anti-DNA Antibodies", Mary Kirkland Center for Lupus Research/Hospital for Special Surgery, 5/2003.
29. Novel Mechanisms for the Renal Pathogenicity of Anti-DNA Antibodies in Lupus". Rheumatology Grand Rounds, Columbia-Presbyterian School of Physicians and Surgeons, New York, NY, 5/2003.
30. "The Role of TWEAK/Fn14 Interactions in the Pathogenesis of SLE", Department of Exploratory Science, Biogen IDEC, Cambridge, MA, 2/2004.
31. "Systemic Lupus Erythematosus", Update in Rheumatic Diseases, Robert Wood Johnson Medical School, New Brunswick, NJ, 5/2004.
32. "Gene Modulation by Pathogenic Anti-DNA Antibodies in Kidney Mesangial Cells", 7th International Conference on SLE and Related Disorders, New York, NY, 5/2004.
33. "The role of TWEAK-Fn14 interactions in lupus nephritis: Perhaps less TWEAK(ing) is better?", Rheumatology Grand Rounds, University of Pennsylvania, Philadelphia, PA, 6/2004.
34. "Systemic lupus erythematosus: What do you really need to know?" Montefiore Medical Center, Department of Rehabilitation/Physical Therapy, Bronx, NY, 10/2004.
35. "Nephritogenic Anti-DNA Antibodies Upregulate Gene Expression in Lupus Glomerular Mesangial Cells: A novel mechanism of injury in lupus nephritis", 4th International Conference in Autoimmunity, Budapest, Hungary, 11/2004.
36. "TWEAK Induction of Proinflammatory Chemokines in Mesangial Cells: A New Therapeutic Target?" 4th International Conference in Autoimmunity, Budapest, Hungary, 11/2004.
37. "Is too much Tweak(ing) a bad thing?: The role of TWEAK/Fn14 interactions in lupus nephritis. NYU/Hospital for Joint Disease Rheumatology Research Grand Rounds, New York, NY, 1/2005.
38. "SLE: New mechanisms of pathogenesis and novel treatment approaches", Department of Medicine Grand Rounds, St. Johns/Mary Immaculate Medical Center, Queens, NY, 4/2005.
39. "Current Concepts in Systemic Lupus Erythematosus", Update in Rheumatology 2005, UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ, 5/2005.
40. "Too Much TWEAK(ing) May Be Bad For You: The role of TWEAK, a novel TNF family member, in the pathogenesis of lupus and lupus nephritis". University of Alabama Medical Center, Department of Medicine Grand Rounds, Birmingham, AL, 5/2005.
41. "Induction of Renal Damage by Modulating Gene Expression: A novel mechanism of injury by nephritogenic anti-DNA antibodies" University of Alabama Medical Center, Division of Clinical Immunology and Rheumatology Grand Rounds, Birmingham, AL, 5/2005.
42. "Serum and Urinary TWEAK levels: A novel biomarker for lupus and lupus nephritis?" Renal Grand Rounds, Division of Nephrology, Albert Einstein College of Medicine, Bronx, NY, 6/2005.
43. "Too Much TWEAK(ing) May Be Bad for You: The role of TWEAK-Fn14 interactions in the pathogenesis of lupus and lupus nephritis". Grand Rounds, Hospital for Special Surgery, New York, NY, 7/2005.
44. "Pathophysiology of Systemic Lupus: Focus on New Therapeutic Targets", American College of Rheumatology Annual Meeting, San Diego, CA, 11/2005.

45. "Lupus Nephritis: Current approaches to pathogenesis and treatment", Hadassah-Hebrew University School of Medicine, Department of Medicine, Jerusalem, Israel, 12/2005.
46. "New Insights and Novel Approaches to the Pathogenesis and Treatment of SLE", Medicine Grand Rounds, Albert Einstein College of Medicine, Bronx, NY, 2/2006.
47. "New Insights and Novel Approaches to the Pathogenesis and Treatment of SLE", Department of Medicine Grand Rounds, Montefiore Medical Center, Bronx, NY, 2/2006.
48. "The role of TNFSF12 in Lupus Nephritis", Division of Nephrology, North Bronx Health Network/Jacobi Medical Center, Bronx, NY, 2/2006.
49. "Novel Mechanisms and Treatment Approaches to Systemic Lupus Erythematosus and the Anti-Phospholipid Syndrome", Update in Rheumatology 2006, UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ, 5/2006.
50. "Nephritogenic Anti-DNA antibodies Upregulate Inflammatory Gene Expression in Mesangial Cells: Is this another way autoantibodies become pathogenic?" Renal Grand Rounds, Division of Nephrology, Albert Einstein College of Medicine/Montefiore Medical Center, Bronx, NY, 9/2006.
51. "The Role of Novel Biologic Treatments in the Treatment of Autoimmune Rheumatic Diseases", Department of Medicine Grand Rounds, South Nassau Communities Hospital, Oceanside, NY, 12/2006.
52. "Novel Mechanisms in the Pathogenicity of Anti-DNA Antibodies in SLE", Institute of Clinical Immunology Grand Rounds, Bnei-Zion Medical Center, Haifa, Israel, 1/2007.
53. "Pathogenic Anti-DNA Antibodies Modulate Inflammatory Gene Expression in Glomerular Mesangial Cells", Biomarkers and New Therapies in SLE Workshop, London, United Kingdom 2/2007.
54. "Induction of Renal Damage by Pathogenic Antibodies Through Modulating Gene Expression: Progress in understanding lupus nephritis and defining a novel biomarker". University of Connecticut Rheumatology Grand Rounds, 3/2007.
55. "Lipocalin-2 is a Novel Biomarker for Disease Activity in Human Lupus Nephritis". Rheumatology Grand Rounds, Wolfson Hospital, Holon, Israel, 5/2007.
56. "Pathophysiology of Systemic Lupus Erythematosus: Focus on New Therapeutic Targets and Identification of Novel Biomarkers", Department of Medicine Grand Rounds, Mary Immaculate Medical Center, Queens, NY, 6/2007.
57. "Novel Therapeutic Approaches and Serological Biomarkers in Systemic Lupus Erythematosus", Department of Medicine Grand Rounds, Lincoln Hospital, Bronx, NY 9/2007.
58. "Advances in our Understanding and Treatment of Lupus Nephritis", UMDNJ-Robert Wood Johnson Medical School Department of Medicine Grand Rounds, New Brunswick, NJ 10/2007.
59. "TWEAK/Fn14 interactions in the pathogenesis of lupus and lupus nephritis: A novel therapeutic target and promising biomarker", Biogen IDEC, Cambridge, MA, 11/2007.
60. "New Insights and Novel Approaches to the Pathogenesis and Treatment of Systemic Lupus Erythematosus". Grand Rounds, Department of Medicine Jacobi Medical Center/North Central Bronx Hospital, Bronx, NY, 12/07.
61. "New Insights and Novel Approaches to the Pathogenesis and Treatment of Systemic Lupus Erythematosus". Medicine Grand Rounds, Wolfson Hospital, Holon, Israel, 2/2008.
62. "Lipocalin-2: A novel role in the pathogenesis and evaluation of SLE", The Mosaic of Autoimmunity International Satellite Conference, Kfar Maccabiah, Israel 2/2008.
63. "Targeting B cells and Co-stimulation in the Treatment of SLE", Hadassah-Hebrew University School of Medicine, Department of Medicine, Jerusalem, Israel, 2/2008.

64. "New insights into the Pathogenesis of Lupus Nephritis", 6th International Congress on Autoimmunity, Porto, Portugal, 9/2008.
65. "TWEAK/Fn14 interactions in the pathogenesis of lupus and lupus nephritis: A novel therapeutic target and promising biomarker", NYU/Hospital for Joint Disease Rheumatology Research Grand Rounds, New York, NY, 11/2008.
66. "TWEAK/Fn14 interactions in the pathogenesis of lupus and lupus nephritis: A novel therapeutic target and promising biomarker", Dallas Lupus Symposium, Dallas, TX, 1/2009.
67. "Induction of Renal Damage by Pathogenic Antibodies Through Modulating Gene Expression: Progress in understanding lupus nephritis and defining a novel biomarker". Grand Rounds, Hospital for Special Surgery, New York, NY, 1/2009.
68. "Novel Therapeutic Approaches and Serological Biomarkers in Systemic Lupus Erythematosus". Rheumatology Grand Rounds, Winthrop University Hospital, Mineola, NY 4/2009.
69. "Current Concepts in Systemic Lupus Erythematosus", Update in Rheumatology 2009, UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ, 5/2009.
70. "The Emerging Role of Immunologic Therapies", Cutting Edge Medicine Immunology Symposium, New York, NY 5/2009.
71. "New Insights and Novel Approaches to the Pathogenesis and Treatment of Systemic Lupus Erythematosus". Grand Rounds, Department of Medicine Beth Israel Medical Center, New York, NY 9/2009.
72. "Pathogenesis and Treatment of Systemic Lupus Erythematosus: The 2009 view". Grand Rounds, Department of Pediatrics, Children's Hospital of Montefiore, Bronx, NY, 11/09.
73. "New Insights and Novel Approaches to the Pathogenesis and Treatment of Systemic Lupus Erythmatosis". Medicine Grand Rounds, Lincoln Hospital, Bronx, NY 1/2010.
74. "The novel role of biologics in the treatment of SLE". Grand Rounds, Department of Medicine St. Lukes-Roosevelt Medical Center, New York, NY 2/2010 (scheduled).
75. "New Insights and Novel Approaches to the Pathogenesis and Treatment of Systemic Lupus Erythematosus". Grand Rounds, Department of Medicine SUNY-Stony Brook School of Medicine, Stony Brook, NY 3/2010 (scheduled)
76. "The role of TWEAK, a TNF family member, in the pathogenesis of SLE", 9th International Congress on Systemic Lupus Erythematosus, Vancouver, British Columbia, 6/2010 (scheduled).

Lay Education:

1. "Research Update for Non-Scientists", New York Academy of Medicine, 10/2000.
2. "Clinical Review of Lupus", Lupus Foundation of America (Bronx Chapter), 10/2002.
3. "An Overview of SLE", Lupus Foundation of America (Bronx Chapter), 10/2003.

Medical Licensure and Certification

License to practice Medicine: Israel (1985)
 New York (1994)
 New Jersey (2003)

Board Certification: Israel Board of Internal Medicine Certification (1994)

American Board of Internal Medicine (ABIM) Certification-1996
Recertification-2006

ABIM Rheumatology Sub-Specialty Board Certification-1997
Recertification-2007

Professional Societies

American Medical Association
American College of Rheumatology
American Association of Immunologists
American Society of Clinical Investigation

Publications

Original Research

1. Putterman C, Halpern P, Leykin Y, Sorkine P, Geller E, Bursztein S. Early use of naloxone in shock: A clinical trial. *Resuscitation* 13:185-190, 1986.
2. Putterman C, Bshouty Z, Bursztein S. The protease inhibitor aprotinin in the therapy of septic shock. *Harefuah* 111:411-414, 1986.
3. Finkelstein R, Markel A, Putterman C, Lerman A, Hashman N, Merzbach D. Waterborne typhoid fever in Haifa, Israel. Clinical, microbiologic, and therapeutic aspects of a major outbreak. *Am J Med Sci* 296:27-32, 1988.
4. Eidelman LA, Putterman D, Putterman C, Sprung CL. The spectrum of septic encephalopathy: Definitions, etiologies and mortalities. *JAMA-J Amer Med Assoc* 275:470-473, 1996.
5. Ray S, Putterman C, Diamond B. Pathogenic autoantibodies are routinely generated during the response to foreign antigen: A paradigm for autoimmune disease. *Proc Natl Acad Sci USA* 93:2019-2024, 1996.
6. Putterman C, Limpanasithikul W, Edelman M, Diamond B. The double-edged sword of the immune response: Mutational analysis of an anti-pneumococcal, anti-DNA antibody. *J Clin Invest* 97:2251-2259, 1996.
7. Gaynor B*, Putterman C*, Valadon P, Spatz L, Scharff MD, Diamond B. Peptide inhibition of glomerular deposition of an anti-DNA antibody. *Proc Natl Acad Sci USA* 94:1955-1960, 1997. (*co-first authors)
8. Putterman C, Ulmansky R, Rasooly L, Tadmor B, Ben-Bassat H, Naparstek Y. Down-regulation of surface antigens recognized by SLE antibodies on embryonal cells following differentiation and exposure to corticosteroids. *Eur J Immunol* 28:1656-1662, 1998.
9. Putterman C, Diamond B. Immunization with a peptide dsDNA surrogate induces autoantibody production and kidney immunoglobulin deposition. *J Exp Med* 188:29-38, 1998.
10. Putterman C, Deocharan B, Diamond B. Molecular analysis of the autoantibody response in peptide-induced autoimmunity. *J Immunol* 164:2542-2549, 2000
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Abstracts (Selected from 103)

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