



NACHMAN BRAUTBAR, MD

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Web site: www.environmentaldiseases.com

Areas of Expertise:	All aspects of Internal Medicine, Medical Toxicology, Occupational Medicine and Nephrology
Medical Licenses:	California, A 30713 Nevada, 17315
Professional Experience: (Past & Present)	Medical Examiner, State of California Chairman Department of Medicine, Queen of Angels/Hollywood Presbyterian Medical Center Chairman Utilization Review Committee, Queen of Angels/Hollywood Presbyterian Medical Center Chairman Quality Management, Queen of Angels/Hollywood Presbyterian Medical Center Vice Chairman Department of Medicine, Queen of Angels/Hollywood Presbyterian Medical Center
Professional Qualifications:	Board Certification, Internal Medicine, 1979 Board Certification, Nephrology, 1980 Board Certification, Forensic Medicine, 1995 Fellow, Collegium Ramazzini
Professional Affiliations:	American Society of Internal Medicine American Society of Toxicology Society of Toxicology American College of Occupational and Environmental Medicine
Past and Upcoming:	Visiting Professor/Visiting Scientist/Lecturer National Institute of Health Mayo Clinic Yale University Harvard Medical School Czech Republic National Institute of Health Cancer Research Institute, University of Bologna, Italy School of Public Health, Tel Aviv, Israel
Appointments: (Past & Present)	Clinical Professor Emeritus of Medicine, January 2008 Clinical Professor of Medicine, U.S.C., 1988 to 2008 Faculty, 1998 National Judicial College, Reno, Nevada, Causation Associate Professor of Pharmacology, U.S.C., 1980-1987 Associate Professor of Medicine, U.S.C., 1978-1988
Publications and Presentations:	240+ Scientific and Medical Manuscripts and Book Chapters, Editorial Board/Consulting Board: Journal of Clean Technology, Environmental Toxicology and Occupational Medicine, Archives of Environmental Health Toxicology and Industrial Health
Comments:	Review of records, material safety data sheets, assessment of levels of exposure and establishing elements required for causation. Literature regarding general causation. Differential diagnosis to establish causation. Expert opinion and testimony.
Trial Testimony:	Dr. Brautbar has testified in Federal and State Courts and has been qualified as an expert in Internal Medicine, Occupational Medicine, Toxicology and Nephrology. Dr. Brautbar has consulted and testified on behalf of plaintiffs, defendants, and independent medical evaluation.
Workers' Compensation:	Dr. Brautbar is a treating, consulting and evaluating physician. In his reports, causation analysis, TD, TTD disability ratings pre-2005 and post-2005, vocational rehabilitation and apportionment are addressed.
CSIMS:	Dr. Brautbar has taught QMEs in several CSIMS seminars. Topics include: causation, apportionment, and compensable consequences of industrial injuries. Dr. Brautbar has served on the Board of Directors of CSIMS and is a member of the Education Committee.

Nachman Brautbar, M.D.

Board Certified, Internal Medicine, Nephrology, Forensic Medicine
Fellow, Collegium Ramazzini
American College of Toxicology
American College of Occupational, Environmental Medicine

Internal Medicine

Toxicology & Chemical Exposure

Kidney Disease & Hypertension

Pharmacology

Pension Disability Evaluation

Impairment Evaluation

Revised 1/4/2021

Curriculum Vitae Nachman Brautbar, M.D.

Date and Place of Birth:

October 22, 1943

Haifa, Israel

Education and Academic Appointments:

Medical School:

Hebrew University - Hadassah Medical School, Jerusalem, Israel, 1961-1968, M.D., 1969.

Internship:

Rotating Internship: Ramban Hospital, Haifa University, Israel, 1968-1969 (12 months).

Residencies:

Resident in Internal Medicine, Rothschild Medical Center, Haifa, Israel, 1971-1973 (18 months).

Chief Resident: Department of Medicine "D", Hadassah University Hospital, Jerusalem, Israel, 1974-1975 (12 months).

Total Residency in Internal Medicine (30 months).

California Licensure Examination, 1975

U.S.A. Internship: Wadsworth V.A. Medical Center, Los Angeles, October 1975-June 1976.

Nephrology Fellowship: Wadsworth V.A. Medical Center, Los Angeles, March 1975 to June 1977.

Assistant Professor of Medicine, UCLA, 1977-1978.

Assistant Chief, Hemodialysis Unit, Wadsworth V.A. Hospital, April 1977-1978.

Assistant Professor of Medicine, U.S.C., July 1, 1978.

Assistant Professor of Pharmacology, U.S.C., July 1981.

Tenured Associate Professor of Medicine and Pharmacology, U.S.C., January 1982-1988.

Clinical Professor of Medicine and Pharmacology, U.S.C., April 1988 - 1993.

Clinical Professor of Medicine, U.S.C., 1994 - December 2007.

Clinical Professor Emeritus of Medicine, U.S.C., January 1, 2008.

Private Practice of Medicine: 1980 - present; Internal Medicine, Nephrology, and

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Toxicology.

Past and Present Professional Activities:

A. Utilization Review Consultation

American Insurance Administrators, Los Angeles, California.
Hollywood Presbyterian Medical Center, Los Angeles, California, Utilization Review.

B. Societies:

European Dialysis and Transplantation Association, 1975
American Federation for Clinical Research, 1975
International Society for Nephrology, 1975
Israel Nephrology Society, 1975
American Society for Nephrology, 1976
American Society of Artificial Internal Organs, 1978
American College of Emergency Medicine, 1979
American Society of Bone and Mineral Metabolism, 1979
Western Society for Clinical Investigation, 1980
American Physiological Society, 1981
American Endocrine Society, 1981
Biophysical Society, 1982
Biochemical Society, 1982
American Chemical Society, 1982
American College of Nutrition, 1983
American Society of Neuroscience, 1984
American Society of Experimental Biology & Medicine, 1984
American Society for Renal Biochemistry, 1984
International Society for Alcohol Research, 1984
American Society of Parenteral and Enteral Nutrition, 1984
California Society of Industrial Medicine & Surgery, 1985
American Society of Industrial Medicine, 1985
Society of Toxicology - Southern California Chapter, 1986
American College of Occupational & Environmental Medicine, 1992
American Association for the Advancement of Science, 1993
American College of Toxicology, 1993
American Academy of Environmental Medicine, 1993
American Board of Forensic Examiners, 1994
American College of Legal Medicine, 1994
American College of Physicians, 1994
International Society for Environmental Epidemiology, 1994
American College of Physician's Executives, 1995
Council of Fellows of the Collegium Ramazzini, 1995
International Society for the Study of Xenobiotics, 1996
Society of Toxicology, 1996
Society of Toxicology, Neurotoxicology Specialty Section, 1996
Society of Toxicology, Immunotoxicology Specialty Section, 1996
Renal Physicians Association, 1996
American Academy of Experts in Traumatic Stress, 1997
American Academy of Preventive Medicine
Environmental Assessment Association, 1997

American Academy of Disability Evaluating Physicians, 1998
British Toxicology Society, 1998
Environmental Assessment Association, 1998
Society of Toxicology, Risk Assessment Specialty Section, 1999
California Society of Industrial Medicine and Surgery, Board of Directors, 2001
California Society of Industrial Medicine and Surgery, Member, Education Committee, 2001

C. Awards:

M.D. Thesis, "Prize for Excellence," Hadassah Medical School, Jerusalem, Israel, 1970.
Fellow in Nephrology, V.A. Wadsworth Medical Center, J.W. Coburn, M.D., Los Angeles, California, October, 1975 to September 1977.

"Prize for Excellence", American Student Medical Association, Western Branch: Meritorious research paper, Carmel, California, 1977.

Traveling Scholarship, American Society of Nephrology, 1978.

Cedars-Sinai Hypertension Research Clinic, U.C.L.A., July 1976 to February 1977.

Award for "Outstanding Organization of the 2nd International Congress on Myocardial and Cellular Bioenergetics," 1984, U.S.C.

Award for Excellence in Teaching and Community Involvement, The City of Los Angeles Council, December 1984.

Award for Voluntary Work for the Hispanic Community, Los Angeles, City of L.A., Councilman A. Schneider, 9/85.

Award for 15 Years of Service, Queen of Angels/Hollywood Presbyterian Medical Center, 12/95.

Fellow of the Collegium Ramazzini, 1995 to present

Fellow of the American College of Physicians, 1998

Resolution of Appreciation, Santa Clara Valley Water District, 09/07/99

Certificate of Recognition, California State Senate, Senator Richard G. Polanco, 09/21/99

Resolution Relative to Commending, Senator Richard J. Mountjoy, 29th Senatorial District, 11/15/00

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California Medical License Number: A 30713

Nevada Medical License Number: 17315

Board of Internal Medicine: Diplomate in Internal Medicine, January 1979

Board of Nephrology: Diplomate in Nephrology, June 1980

Board of Forensic Examiners: Diplomate in Forensic Medicine, January 1996

Medical Board of California: Expert Medical Reviewer, December 2005

Citizenship: American, Naturalized, July 1980

D. **Specific Teaching Responsibilities:** (Past and Present)

Internal Medicine Weekly Seminars for House Staff, 1974 – 1975, Hadassah, Jerusalem, Israel.

Lectures in Physical Examination and Diagnostics for Medical Students: U.C.L.A., 1977-1978.

Lectures and Seminars in Renal Physiology to Residents, U.C.L.A., 1977-1978.

Mechanism of Diseases, U.S.C., Medical School, 1978-1987.

Pathophysiology Course, U.S.C., Medical School, 1978-1987.

Student Ward Attending, U.S.C., Medical School, 1978-1987.

Attending on Nephrology Ward, U.S.C., Medical School, 1978-1987.

Attending on Medicine Ward, U.S.C., Medical School, 1978-present

Residents Seminars in Nephrology, U.S.C. Medical School, 1978-1987.

Senior Advisor, Ph.D. Program, Department of Pharmacology, U.S.C., Medical School, 1978-1987.

Department of Medicine - Attending in Internal Medicine 1-2 Months Per Year. Direct Daily Teaching To Residents, Interns, and Students. University of Southern California, School of Medicine, Department of Medicine 1978, Presently Emeritus.

E. **Medical Scientific Committees:** (Past and Present)

Assistant Chief Hemodialysis Unit, Wadsworth, V.A. Hospital and U.C.L.A., June 1977-June 1978, Center, January 1980-1983.

Director, Renal Research Laboratory, U.S.C./L.A.C. Medical Center, January 1980-1983.

Advisor to the Scientific Council, Kidney Foundation of Southern California.

Chairman, Nephrology Section, Hollywood Presbyterian Medical Center, Los Angeles, California.

Member, Research Committee, Kidney Foundation of Southern California, August 1979.

Chairman, Public Relations Committee, Kidney Foundation of Southern California, August, 1980.

Member, Research Committee, Kidney Foundation of Southern California, 1983.

Chairman, Research Council, Kidney Foundation of Southern California, 1983.

Chairman, Annual Scientific Symposium, Kidney Foundation of Southern California.

Chairman, Organizing Committee 2nd International Congress on Myocardial and Cellular Bioenergetics, 1984.

Member, Organizing Committee and Vice Chairman, Program Committee, American Society for Magnesium Research, Los Angeles, 1985.

Director, Center for Internal Occupational and Toxicological Medicine, March, 1986.

Director, Osteoporosis Center, March, 1986.

Chairman, Department of Medicine, Hollywood Presbyterian Medical Center, 1985-1987.
Chairman, Utilization Review Committee, Hollywood Presbyterian Med Center, 1987-89
Member, Quality Utilization Council, Queen of Angels Medical Center, 1996.
Member, Medical Records Committee, Queen of Angels Medical Center, 1996.
Chairman, Subacute Care Committee SNF, Queen of Angels Medical Center, 1996.
Member, Clinical Nutrition Committee, Queen of Angels Medical Center, 1996.
Member, Executive Committee, California Society of Industrial Medicine and Surgery
Chairman Task Force Environmental Health, City of Los Angeles, City Attorney.
Chairman, Skilled Nursing Services, Queen of Angels Medical Center, 1996
Chairman, Allied Services Committee, Queen of Angels Medical Center, 1997
Vice-Chairman, Dept of Medicine, Queen of Angels Medical Center, 1999, 2000, 2001
Chairman, Pharmacy & Therapeutics Committee, Queen of Angels Medical Center, 1999, 2000
Member, CSIMS Education Committee, California Society of Industrial Medicine & Surgery, 2000
Chairman, Panel Discussion, New York Academy of Sciences. Carcinogenesis Bioassays and Protecting Public Health: Commemorating the Lifework of Cesare Maltoni. April, 2002.
Chairman, Education Committee, California Society of Industrial Medicine & Surgery, 2002

F. Grants:

Recipient of a Kidney Foundation Fellowship Grant, 1977

Recipient of an American Heart Association, Clinical Investigation Grant, 1980

Recipient of an NIH Grant, \$240,000 for Investigation Into Myopathy of Phosphate Depletion, 1985-1987.

G. Editorial Boards, Consultants & Peer Review: (Past and Present)

Editorial Board, Journal of Clean Technology and Environmental Sciences.

Editor-in-Chief, International Journal of Occupational Medicine and Toxicology.

Assistant Editor to Mineral and Electrolyte Metabolism.

Consultant to the Editor of Archives of Internal Medicine.

Consultant to the Editor of Biochemical Medicine.

Consultant to the Editor of Kidney International.

Consultant to the Editor of Journal of Clinical Investigation.

Editorial Board, Biochemical Medicine.

Editorial Board, Nephron.

Consultant to the Journal of Clinical Investigation.

Consultant to Kidney International.

Assistant Editor, American Journal of Nephrology.

Consultant to "Magnesium", Journal of the American Society for Magnesium Research.

Consultant to the Journal of the American College of Nutrition.

Consultant to the American Journal of Physiology.

Consultant to the Editor of Renal Physiology.

Consultant to the Editor of Advances of Modern Environmental Toxicology.

Editorial Board, Toxicology and Industrial Health.

Consultant to the Archives of Environmental Health
Consultant to the Journal of Exposure Analysis
Consultant for the Life Sciences Research Office, Federation of American Society for
Experimental Biology
Consultant for the Scientific Advisory Committee and Study Section, American Heart
Association, Los Angeles, California.
Editor-in-Chief, Journal of Clean Technology, Environmental Toxicology, and
Occupational Medicine.
Coeditor, Toxicology and Industrial Health
Peer Reviewer, Department of Health & Human Services/ATSDR, A Follow-Up
Investigation of the Stability and Predictive Value of Kidney Biomarkers Among
Participants in Three Earlier ATSDR Health Investigations, 2000
Peer Reviewer, Federal Judicial Center, Reference Manual on Scientific Evidence,
Second Edition, 2000
Peer Reviewer, Eastern Research Group/ATSDR, Malathion Chemical Technical
Summary for Public Health and Public Safety Professionals, 2000
Editorial Board, International Journal of Occupational medicine and Environmental
Health
Editorial Board, Archives of Environmental & Occupational Health
Peer Reviewer, A Medical-Legal Companion to the AMA Guide Fifth, Chapter on
pulmonary medicine.

Publications:

1. Better, O.S., N. Brautbar, S. Branstater, et al. Obstruction of the inferior vena cava. Harefuah (Journal of the Israel Society of Medicine) 73:83-5, 1967.
2. Brautbar, N., Lead poisoning in a family of immigrants from Iran. Department of Public Health, Israel, 1967.
3. Better, O.S., J. Garty, N. Brautbar, D. Barzilai. Diminished functional parathyroid reserve Following 131 treatment for hyperthyroidism. Isr J Med Sci. 5:419-22, 1969.
4. Litwin, Y., N. Brautbar. Granulomatous liver disease, induced by quinidine. Harefuah (Journal of the Israeli Society of Medicine). 89:474-5, 1975.
5. Berl, T., N. Brautbar, M. Ben-David, W. Czazkes, C.R. Kleeman. Osmotic control of prolactin release and its effect on renal water excretion in man. Kidney International. 10:158-83, 1976.
6. Brautbar, N., M. Ben-David. Osmotic regulation Of prolactin and renal handling of water. A review. Harefuah (Journal of the Israeli Society of Medicine). 91:97-8, 1976.
7. Brufman, D., M. Brazis, N. Brautbar, R. Fink. Treatment of primary hepatocellular carcinoma with adriamycin. Harefuah (Journal of the Israeli Society of Medicine). 90:381-2, 1976.
8. Brautbar, N., J. Rosler, J. Levi, et al. Familial hyperkalemia and hyporeninemia, a distal tubular defect in potassium secretion. Clin Res. 24:125, 1976.

9. Berl, T., N. Brautbar, W. Chazkes, et al. Osmotic control of prolactin release and the effect of the hormone on renal excretion of water in man. *Clin Res.* 25:98, 1976.
10. Brautbar, N., M. Walling, J.W. Coburn. Effects of vitamin D and 1,25 (OH) 2 vitamin D3 on tissue and serum P in phosphate depletion. *Amer Soc Nephrol.* 1976.
11. Brautbar, N., M. Yaron, J.W. Coburn. Interactions between parathyroid hormone and 1,25 (OH) 2 vitamin D3 on renal handling of phosphate in the dog. *Clin Res.* 25:136A.
12. Walling, M., N. Brautbar, J.W. Coburn. Effects of phosphate depletion on active transport of phosphate by rat jejunum. *Amer Soc Nephrol.* 1976.
13. Brautbar, N., D.B.N. Lee, H. Carlson, et al. Experimental phosphorus depletion (PD): attenuation of biochemical changes in hypophysectomized rats. *Clin Res.* 25:165A.
14. Brautbar, N., Y. Litwin. Salt wasting, normokalemia, elevated plasma renin activity, and normal aldosterone: a genetic abnormality in salt conservation. *Harefuah.* 91:182-4, 1977.
15. Sowers, J.R., H.E. Carlson, N. Brautbar, J.M. Hershman. Effect of dexamethasone on prolactin and TSH response to TRH and metaclopramide in man. *J Clin Endocrinol Metabol.* 44:237-41, 1977.
16. Brautbar, N. The brain and renal hemostasis of sodium. *Harefuah, Journal of the Israeli Medical Association.* 92:34-5, 1977.
17. Brautbar, N., C.R. Kleeman. Vitamin D and renal handling of calcium and phosphorus. *Harefuah.* 92:278-9, 1977.
18. Diengott, D., A. Spindel, N. Brautbar, F. Dreyfuss. A radioisotope test for diagnosis of deep vein thrombosis of the legs. *Harefuah, Journal of the Israeli Medical Association.* 13:414-18, 1977.
19. Brautbar, N., R. Luboshitzky. Combined calcitonin and oral phosphate treatment for hypercalcemia in multiple myeloma. *Arch Int Med.* 137:914-16, 1977.
20. Linvi, N., A. Behar, N. Brautbar. Ultrastructure of hepatocellular carcinoma in cirrhotic liver. *Isr J Med Sci.* 13:590-9, 1977.
21. Brautbar, N., J. Lerman, J.W. Czaczkes, E. Rosenmann. Renal failure and interstitial nephritis due to trichloroethylene anesthesia and high dose penicillin. *Isr J Med Sci.* 13:604-8, 1977.
22. Spitz, L.M., H. Landau, U. Almaliach, E. Rosen, N. Brautbar, A. Russel. Diminished prolactin reserve: a case report. *J Clin Endocrinol Metabol.* 5:415-18, 1977.
23. Brautbar, N., M. Ben David. Adrenogenital syndrome (11-hydroxylase deficiency) with hyperprolactinemia. reversal by glucorticoid administration. *Arch Int Med.* 137:1608-9, 1977.

24. Lee, D.B.N., N. Brautbar, H. Carlson, C. Golvein, J.W. Coburn, C.R. Kleeman. The biochemical indices of experimental phosphorus depletion. A re-examination of their physiological implications. 3rd Int'l. Congress on Phosphate and Other Minerals, Madrid, July 12, 1977.
25. Brautbar, N., B. Levine, J.W. Coburn, C.R. Kleeman. Somatostatin and the renal handling of divalent ions and water. Amer Soc Nephrol. Washington, D.C., 1977.
26. Lee, D.B.N., N. Brautbar, V. Walling, V. Sillis, J.W. Coburn, C.R. Kleeman. Experimental phosphate depletion in young rats: evidence against intestinal calcium hyperabsorption. Amer Soc Nephrol. Washington, D.C., 1977.
27. Lee, D.B.N., N. Brautbar, R. Grindland, H. Carlson, J.W. Coburn, C.R. Kleeman. Experimental phosphorus depletion and growth hormone metabolism. Amer Soc Nephrol. Washington, D.C., 1977.
28. Brautbar, N., J. Shinaberger, J. Miller, P. Gardner. Hemodialysis pulmonary dysfunction syndrome: dissociation between the cuprophane membrane and dialysis solution. Clin Res. 1977.
29. Walling, N.W., N. Brautbar, J.W. Coburn. Jejunal phosphate active transport. Effects of phosphorus depletion and vitamin D. Federation Proceedings, 61st Annual Meeting, Chicago, 1977.
30. Brautbar, N., J. Shinaberger, P. Gardner, J. Miller. Hemodialysis pulmonary dysfunction (studies with pure hemofiltration): hypoxemia induced by dialysate solution. Phys. Boston, 1977.
31. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Phosphate depletion without hypophosphatemia: The gut as a sensor organ. 7th Annual Meeting, International Society of Nephrology, Canada, 1978.
32. Brautbar, N., J. Shinaberger, J. Miller, P. Gardner. Hemodialysis induced hypoxemia: role of dialysis solution. 7th Annual Meeting, International Society of Nephrology, Canada, 1978.
33. Levine, B., N. Brautbar, J.W. Coburn, C.R. Kleeman. Somatostatin and renal handling of water, possible interaction with ADH. Clin Res. 1978.
34. Brautbar, N., J. Shinaberger, J. Miller, P. Gardner. Acid base and blood gas studies during sequential hemofiltration and hemodialysis. Clin Res. 1978.
35. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Dietary phosphate restriction, phosphate depletion: different aspects of intestinal absorption of calcium. 7th Annual Meeting, International Society of Nephrology, Montreal, 1978.
36. Lee, D.B.N., N. Brautbar, H. Carlson, J.W. Coburn, C.R. Kleeman. The inter-relationship between experimental phosphate depletion and growth hormone metabolism. 7th Annual Meeting International Society of Nephrology, Montreal, 1978.

37. Shinaberger, J, N. Brautbar, J. Miller, S. Winkler. Clinical and physiological studies of sequential ultrafiltration-diffusion dialysis. Western Dialysis and Transplant Society, 1978.
38. Brautbar, N., M.W. Walling, J.W. Coburn. Role of vitamin D in the intestinal adaptation in phosphate depletion. Amer Soc of Nephrol., 1978.
39. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Magnesium hemostasis in phosphate depletion. Role of dietary magnesium. Amer Soc Nephrol., 1978.
40. Brautbar, N., J. Levi, A. Rosler, E. Leitsedorf, M. Djaldeti, M. Epstein, C. Kleeman. Familial hyperkalemia, hypertension and hyporeninemia with normal aldosterone levels: a distal tubular defect in potassium handling. Arch Int Med. 138:607-10, 1978.
41. Brautbar, N., C. Menz, M. Winston, J.H. Shinaberger. Retroperitoneal bleeding in hemodialysis patients. A cause for morbidity and mortality. J Amer Med Assoc. 239:1530-31, 1978.
42. Levine, B.S., N. Brautbar, J.W. Coburn. Does vitamin D affect the renal handling of calcium and phosphorus? Mineral Metabolism. 1:395-402, 1978.
43. Shinaberger, J.H., N. Brautbar, J.H. Miller, P.W. Gardner. Successful application of sequential hemofiltration followed by diffusion dialysis with standard dialysis equipment. J Amer Soc Artif Organs. 24:677-81, 1978.
44. Better, O.S., D. Barzilai, N. Brautbar, D. Barzilai. Error in estimation of parathyroid function in the old age group. Harefuah (Journal of the Israel Society of Medicine) 76:460, 1979.
45. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Normophosphatemic phosphate depletion in growing rats. Amer J Physiol. 236:E283-8, 1979.
46. Brautbar, N., M.W. Walling, J.W. Coburn. Interactions between vitamin D deficiency and phosphate depletion in the rat. J Clin Invest. 63:335-41, 1979.
47. Lee, D.B.N., Brautbar, N., J.W. Coburn, H. Carlson, M.W. Walling, C.R. Kleeman. Effect of phosphorus depletion on intestinal calcium and phosphorus absorption. Amer J Physiol. 236:E451-8, 1979.
48. Brautbar, N., B. Levine, J.W. Coburn, C.R. Kleeman. Interaction of somatostatin with PTH and AVP: renal effects. Amer J Physiol. 237:E428-31, 1979.
49. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Influence of dietary magnesium in experimental phosphate depletion: bone and soft tissue mineral changes. Amer J Physiol. 237:E152-7, 1979.
50. Levine, B., D.B.N. Lee, M. Walling, N. Brautbar, C. Kleeman, J. Coburn. Effects of 1,2 OH) 2D3 and 24,25 (OH) 2D3 alone in combination in rats. Clin Res. 1979.

51. Winkler, S., B. Levine, N. Brautbar, K. Kurokawa. Studies on the interaction between somatostatin and ADH on the vitro renal tubular cells. Clin Res. 1979.
52. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Role of magnesium balance in the development of the biochemical picture of phosphate depletion. Clin Res. 1979.
53. Brautbar, N., M. Walling, A. Montcalm, J.W. Coburn. Role of dietary phosphorus in the intestinal adaptation and response to vitamin D in phosphate depletion. 4th International Workshop on Vitamin D Metabolism, Berlin, 1979.
54. Walling, M.W., B. Levine, N. Brautbar, J.W. Coburn. Renal cortical alkaline phosphatase activity and renal retention during P depletion in vitamin D deficient rats. Amer Soc Nephrol. 1979.
55. Brautbar, N., D.B.N. Lee, J.W. Coburn, A. Montcalm, C.R. Kleeman. Role of dietary magnesium on soft tissue and bone mineral changes in phosphate depletion. Clin Res. 1979.
56. Meyer, W.A., N. Brautbar, A. Montcalm, S.G. Massry. Interaction between phosphate depletion and thiazide on urinary calcium. Clin Res. 1979.
57. Lee, D.B.N., B. Levine, M. Walling, N. Brautbar, R. Lessman, V. Sillis, J.W. Coburn. Role of 1,25 (OH) 2D3 in homeostasis of serum phosphorus. Clin Res. 1979.
58. Moser, S., N. Brautbar, V. Gura, S.G. Massry. Mechanism of the hypophosphaturia of dietary phosphate deprivation. Clin Res. 465A, 1980.
59. Brautbar, N., S. Moser, P. Finander, A. Montcalm, S.G. Massry. Biochemical changes in the myocardium during experimental phosphate depletion. Clin Res. 386A, 1980.
60. Leiboviei, H., N. Brautbar, P. Finander, S.G. Massry. Mechanism of hypophosphatemia during acute hyperventilation. 13th Annual Meeting, Amer Soc Nephrol. 2A, 1980.
61. Brautbar, N., S. Moser, P. Finander, S.G. Massry. Effects of phosphate depletion on cell membrane phospholipids and glucose pathways in the kidney, liver and skeletal muscle. 13th Annual Meeting. Amer Soc Nephrol. 6A, 1980.
62. Meyer, W.A., N. Brautbar, S. Moser, A. Montcalm, S.G. Massry. Effect of thiazide on the hypercalciuria of phosphate depletion. J Lab Clin Med. 96:830-7, 1980.
63. Lee, D.B.N., N. Brautbar, N. Walling, V. Sillis, H. Carlson, R. Grindland, J.W. Coburn, C.R. Kleeman. Role of growth and growth hormone in experimental phosphorus deprivation in the rat. Calc Tiss Int'l. 32:105-12, 1980.
64. Brautbar, N., J. Sinaberger, J. Miller, M. Nachman. Hemodialysis hypoxemia. Evaluation of mechanisms utilizing sequential ultrafiltration-dialysis. Nephron. 26:96-9, 1980.

65. Levine, B., N. Brautbar, M.W. Walling, D.B.N. Lee, and J.W. Coburn. The effects of vitamin D and diet magnesium on magnesium metabolism. *Amer J Physiol.* 239(6):E515-23, 1980.
66. Massry, SG, N. Brautbar. The interrelationship between phosphate and magnesium metabolism. *Adv Exper Med Biol.* 128:51-66, 1980.
67. Moser, S., N. Brautbar, V. Gura, C.R. Kleeman, S.G. Massry. On the mechanism of hypophosphaturia of acute and chronic dietary phosphate restriction. *Min Elect Metabol.* 5:39-48, 1981.
68. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Soft tissue and bone mineral changes in experimental phosphate depletion: the role of growth and growth hormone. *Min Elect Metabol.* 5:304-10, 1981.
69. Brautbar, N., B. Levine, M.W. Walling, J.W. Coburn. Intestinal absorption of calcium. Role of dietary phosphate and vitamin D. *Amer J Physiol.* 241:G49-53, 1981.
70. Kraut, J., U. Gafter, N. Brautbar, J. Miller, J. Shinaherger. Prevention of hypoxemia during dialysis by the use of sequential isolated ultrafiltration-diffusion dialysis with bicarbonate dialyzate. *Clin Nephrol.* 15(9):181-4, 1981.
71. Saglikes, Y., V. Campese, N. Brautbar, R. Barndt, S.G. Massry. Hemodynamic effect of phosphate depletion. 5th International Workshop on Phosphate and Other Minerals, 1981.
72. Brautbar, N., H. Leibovici, P. Finander, S.G. Massry. Mechanism for the hypophosphatemia of acute hyperventilation. 5th International Workshop on Phosphate and Other Minerals, 1981.
73. Brautbar, N., S. Moser, S.G. Massry. Effects of phosphate depletion on cell membrane phospholipid and glucose pathway in kidney and liver. *Amer Soc Nephrol.* 125A, 1981.
74. Brautbar, N., C. Carpenter, P. Geiger, A. Konforti, S.G. Massry. Evidence for impairment in energy transport via the creatine phosphate shuttle in the myocardium of the phosphate depleted rat. *Clin Res.* 1981.
75. Baczynski, R., N. Brautbar, C. Carpenter, S.G. Massry. Effects of parathyroid hormone on energy metabolism of the heart. 14th Annual Meeting of the Amer Soc Nephrol. 1A, Washington, D.C., 1981.
76. Doherty, C., P. LaBelle, N. Brautbar, D. Moyer, S.G. Massry. Effect of intact parathyroid hormone and its fragment on human polymorpho-nuclear leukocytes. *Clin Res.* 1982.
77. Brautbar, N., C. Carpenter, R. Baczynski, R. Kohan, S.G. Massry. The effects of phosphate depletion on energetics of skeletal muscle. *Clin Res.* 100A, 1982.
78. Brautbar, N., C. Carpenter, R. Baczynski, R., Kohan, S.G. Massry. Evidence for impaired energy transport in skeletal muscle during phosphate depletion. *Fed Proc.* 1982.

79. Brautbar, N., R. Baczynski, R. Kohan, S.G. Massry. Effects of parathyroid hormone on skeletal muscle energy production, transport and utilization. *Amer Soc Nephrol.* 1982.
80. Massry, S.G., C. Doherty, P. Kimball, D. Moyer, N. Brautbar. Effects of intact parathyroid and its amino-terminal fragments on human polymorphonuclear leukocytes: implications in uremia. *Amer Soc Nephrol.* 11A, 1982.
81. Campese, V., Y. Saglikes, N. Brautbar, R. Brandt, S.G. Massry. Effects of phosphate depletion on blood pressure. *Amer Soc Nephrol.* 4A, 1982.
82. Brautbar, N., R. Baczynski, C. Carpenter, S. Moser, P. Geiger, P. Finander, S.G. Massry. Impaired metabolism in rat myocardium during phosphate depletion. *Amer J Physiol.* 242:F699-704, 1982.
83. Yoshina, M., R. Amerian, N. Brautbar. Hyperalbuminemia hypoaldosteronism in sickle cell disease. *Nephron.* 31:242-4, 1982.
84. Brautbar, N. The myopathy of uremia. Aspects of energy metabolism. *International Congress of Nutrition in Uremia, Marseilles, 1982.*
85. Brautbar, N. The skeletal myopathy of phosphate depletion. *International Congress on Phosphate and Other Minerals, Verona, 1983.*
86. Brautbar, N., J. Taberner-Romo, J. Coats, S.G. Massry. Impaired fatty acid oxidation and phospholipid biosynthesis in the myocardium during phosphate depletion. *Clin Res.* 381A, 1983.
87. Brautbar, N., J. Chakraborty, J. Coats, S.G. Massry. Effects of PTH and calcium on phospholipid turnover of human red blood cells. *Amer Soc Nephrol.* 3A, 1983.
88. Brautbar, N., J. Coats, S.G. Massry. Impaired lipid metabolism in phosphate depletion. *Clin Res.* 1983.
89. Brautbar, N., H. Leibovici, S.G. Massry. On the mechanism of hypophosphatemia during acute hyperventilation: evidence for increased muscle glycolysis. *Min Elect Metabol.* 9:45-50, 1983.
90. Brautbar, N., C. Carpenter, R. Baczynski, R. Kohan, S.G. Massry. Impaired energy metabolism in skeletal muscle during phosphate depletion. *Kidney Int.* 24(1):53-7, 1983.
91. Brautbar, N., P. Geiger. Application chromatography to the analysis of phosphate compounds in small biopsy tissue samples in different experimental conditions. *Biochem Med.* 291:364-71, 1983.
92. Brautbar, N. Skeletal myopathy in uremia: abnormal energy metabolism. *Kidney Int Suppl.* 16:S81-6, 1983.
93. Brautbar, N., J. Taberner-Romo, J. Coats, S.G. Massry. Impaired myocardial lipid metabolism in phosphate depletion. *Kidney Int.* 26(1):18-23, 1984.

94. Brautbar, N., H. Gruber. Metabolic bone disease and the elderly. *Nephron*. 381:76-86, 1984.
95. Brautbar, M., C. Carpenter. Skeletal myopathy and magnesium depletion: cellular mechanisms. *Magnesium*. 3(2):57-62, 1984.
96. Zawada, E., N. Brautbar. The possible role of magnesium in hypercalcemic hypertension. *Magnesium*. 3(3):132-7, 1984.
97. Brautbar, N., J. Coats. Rapid separation and quantitation of cell membrane in skeletal muscle phospholipids by HPLC and automatic phosphorus analysis. *Liquid Chromatography*. 2:690-4, 1984.
98. Brautbar, N., C. Carpenter, S.G. Massry. Effects of phosphate depletion on liver phospholipid and carbohydrate metabolism. *Clin Res*. 1984.
99. Brautbar, N., C. Carpenter, S.G. Massry. Impaired liver carbohydrate and phospholipid metabolism during experimental phosphate depletion. *International Society of Nephrology*, 1984.
100. Brautbar, N., M. Maggott, S.G. Massry. Effects of magnesium depletion on myocardial bioenergetics phospholipid. *International Society of Nephrology*, 1984.
101. Brautbar, N., M. Maggott, S. Heanton, J. Lawson, S.G. Massry. Magnesium depletion: myocardial and cellular bioenergetics and phospholipid metabolism. *Transact Biochem Soc*. 1984.
102. Brautbar, N., M. Maggott, K. Anderson, A. Tran, S.G. Massry. Effects of dietary magnesium restriction, hypomagnesemia and magnesium depletion on myocardial oxidative phosphorylation. 57th Annual Scientific Meeting of the American Heart Association, 1984.
103. Brautbar, N. Effects of dietary phosphate deprivation on liver intermediary metabolism. *American College of Nutrition*, 1984.
104. Savabi, F., V. Gura, S. Bessman, N. Brautbar. Effects of magnesium depletion on myocardial adenine nucleotide and contractility. *American College of Nutrition*, 1984.
105. Saglikes, Y., S.G. Massry, K. Iseki, N. Brautbar, R. Barndt, L. Brunton, I. Buxton. Effect of phosphate depletion on blood pressure and vascular reactivity to norepinephrine and angiotensin in the rat. *Amer Jour Physiol*. 248:F93-9, 1985.
106. Baczynski, R., S.G. Massry, R. Kohan, M. Magott, N. Brautbar. Effect of parathyroid hormone on myocardial energy metabolism in the rat. *Kidney Int*. 27:718-25, 1985.
107. Zawada, E.T., N. Brautbar. Calcium supplement therapy of hypertension - Has the time come? *Nephron*. 41(2):129-31, 1985.

108. Brautbar, N., R. Baczynski, R. Kohan, S.G. Massry. Effects of parathyroid hormone on skeletal muscle energy transport and utilization. *Kidney Int.* 28:L722-7, 1985.
109. Brautbar, N., J. Coats, S.G. Massry. Effects of parathyroid hormone on red blood cell phospholipid metabolism. *Min Elect Metab.* 11:111-16, 1985.
110. Brautbar, N., K. Anderson, M. Maggott, A. Tran, S.G. Massry. Effects of magnesium depletion on skeletal muscle bioenergetics. *FASEB*, 1985.
111. Brautbar, N. Diagnosis, prevention and treatment of osteoporosis. Hollywood Academy of Medicine, 1985.
112. Baczynski, R., S.G. Massry, M. Magott, S. El-Bellbasi, R. Kohan, N. Brautbar. Effects of parathyroid hormone on energy metabolism of skeletal muscle. *Kidney Int.* 28:722-28, 1985.
113. Lee, D., M. Walling, N. Brautbar. Intestinal phosphate absorption: influence of vitamin D and non-vitamin D factors. *Am J Physiol.* 250:G369-73, 1986.
114. Brautbar, N., H. Gruber. Magnesium and bone disease. *Nephron.* 44:1-7, 1986.
115. Brautbar, N. Osteoporosis and the role of 1,25 (OH)₂ vitamin D. *Nephron*, 1986.
116. Savabi, F., S. Bessman, V. Gura, N. Brautbar. Magnesium depletion on myocardial high energy phosphates and contractility. *Biochem Med Metab Biol.* 39:131-9, 1986.
117. Brautbar, N., B.M. Altura. Phosphate and magnesium abnormalities in alcoholism. *Alcohol Clin Exp Res.* 11:118-126, 1987.
118. Brautbar, N., B. Altura. The role of magnesium and phosphate depletion in alcoholic cardiomyopathy. *Alcohol Clin Exp Res.* 11(2):118-26, 1987.
119. Savabi, F., V. Gura, S. Bessman, N. Brautbar. Effects of magnesium depletion on myocardial high-energy phosphates and contractility. *Biochem Med Metab Biol.* 39:131-9, 1988.
120. Doherty, C., P. LaBelle, J. Collins, N. Brautbar, S.G. Massry. Effects of parathyroid hormone on random migration of human polymorphonuclear leukocytes. *Am J Nephrol.* 8:212-19, 1988.
121. Roy, A.T, L.E. Johnson, D.B.N. Lee, N. Brautbar, J.E. Morley. UCLA Grand Rounds: Renal failure in the elderly. *J Am Geri Soc.* 38:239-53, 1990.
122. Hardrick, L.L., M.R. Jones, N. Brautbar, D.B.N. Lee. The site and the mechanism of intestinal magnesium absorption. *Min Electro Metab.* 16:174-80, 1990.
123. Hardrick, L.L., M.R. Jones, N. Brautbar, D.B.N. Lee. Magnesium absorption: mechanisms and the influence of vitamin D, calcium and phosphate. *J Nutrition.* 121:13-21, 1991.

124. Roy, A.T, N. Brautbar, D. Lee. Hydrocarbons and renal failure. *Nephron*. 58:385-92, 1991.
125. Nakoul, F., L. Kayne, N. Brautbar, M. Hu, A. McDonough, P. Eggena, M. Golub, M. Berger, C. Chang, N. Jamgotchian, D. Lee. Rapid hypertensinogenic effect of lead: studies in the spontaneously hypertensive rat. *Tox Ind Health*. 8(1/2):89-102, 1992.
126. Niu, P.C., M. Roberts, B. Tabibian, N. Brautbar, D.B.N. Lee. How can the care of elderly dialysis patients be improved? *Seminars in Dialysis*. 5(1):31-3, 1992.
127. Brautbar, N., A. Vojdani, A. Campbell. Silicone implants and systemic immunological disease: review of the literature and preliminary results. *Tox Ind Health*. 8(5):231-7, 1992.
128. Vojdani, A., M. Ghoneum, N. Brautbar. Immune alteration associated with exposure to toxic chemicals. *Tox Ind Health*. 8(5):239-54, 1992.
129. Brautbar, N., A. Vojdani. Multiple chemical sensitivities - facts or myth. *Tox Ind Health*. 8:6 V-XIII, 1992.
130. Vojdani, A., A. Campbell, N. Brautbar. Immune functional abnormalities in patients with clinical abnormalities and silicone breast implants. *Tox Ind Health*. 8:415-426, 1992.
131. Vojdani, A., A. Campbell, N. Brautbar. Immune functional abnormalities of patients with silicone breast implants. Society of Toxicology Meeting, 11/1992.
132. Brautbar, N., A. Vojdani, A. Campbell. Effects of industrial solvents on immune functions. Society of Toxicology Meeting, 11/1992.
133. Lee, D.B.N., A. Campbell, N. Brautbar. Abstract. Uremic anemia and Mits reversal by renal transplantation: new insights and new questions. Proceedings of the 5th Asian Pacific Congress of Nephrology, New Dehli, India, 12/9-13/1992.
134. Lee, D.B.N., A. Campbell, N. Brautbar. Erythropoietin and the renin-angiotensin axis: the revival of an old association. Proceedings of the 5th Asian Pacific Congress of Nephrology, New Dehli, India, 12/9-13/1992.
135. Brautbar, N., A. Vojdani, A. Campbell. Toxic solvents: mechanism of human immune system damages. International Congress on the Health Effects of Hazardous Waste, Atlanta, Georgia, 5/3-6/1993.
136. Vojdani, A., N. Brautbar, A. Campbell. Abstract. Immune functional abnormalities and autoimmunity in patients with silicone breast implants. Joint Meeting of the American Association of Immunologists and the Clinical Immunology Society, Denver, Colorado, 5/21-25/1993.
137. Brautbar, N., A. Vojdani, A. Campbell. Immunological and lymphocyte subset abnormalities in patients with silicone breast implants. Twenty-Eighth Annual Meeting of

- the American Academy of Environmental Medicine, 10/9-12/1993.
138. Brautbar, N., A. Vojdani, A. Campbell. Industrial solvents: immunological and neurological abnormalities. 1994 Annual Meeting of the American Association for the Advancement of Science, 2/1994.
 139. Vojdani, A., N. Brautbar, A. Campbell. Antibody to silicone and native macromolecules in women with silicone breast implants. *Immunopharm Immunotox.* 16(4), 1994.
 140. Brautbar, N., A. Vojdani, A. Campbell. Silicone breast implants and autoimmunity, causation or myth? *Arch Environ Health.* 49(3):151-53, 1994.
 141. Vojdani, A., N. Brautbar, A. Campbell. Immunologic and biologic markers for silicone. *Tox Ind Health.* 10:25-42, 1994.
 142. Vojdani, A., N. Brautbar, A. Campbell. Laboratory tests in aid for diagnosis of silicone induced immunological disorders. *Inter J Occ Med Tox.* 3:1-19, 1994.
 143. Brautbar, N., A. Vojdani, A. Campbell. Industrial exposure to solvents and immune system dysfunction. *Hazardous Waste and Public Health: International Congress on the Health Effects of Hazardous Waste. Sec 4, Chap 8:556-65, 1994.*
 144. Campbell, A., N. Brautbar, A. Vojdani. Reversal of silicone induced reduction in natural killer cell activity after silicone breast implant explantation. *Tox Ind Health.* 10(3):149-54, 1994.
 145. Gruber, H., S.G. Massry, N. Brautbar. Effect of relatively long-term hypomagnesemia on the chondro-osseous features of the rat vertebrae. *Min Electro Metab.* 20:282-6, 1994.
 146. Brautbar, N., A. Campbell. Silicone breast implants and immunogenic dysfunction. *Breast Diseases: A Yearbook Quarterly.* 5(4):21-3, 1995.
 147. Brautbar, N. Direct effects of nicotine on the brain: evidence for chemical addiction. *Arch Envir Health.* 50(4):263-66, 1995.
 148. Brautbar, N., A. Campbell, A. Vojdani. Silicone breast implants and autoimmunity: causation, association or myth? *J Biomater Sci:Polymer Edition.* 7(2):133-45, 1995.
 149. Campbell, A., N. Brautbar. Norplant: systemic immunological complications-case report. *Tox Ind Health.* 11(1):41-7, 1995.
 150. Brautbar, N., A. Campbell. Silicone implants and immune dysfunction: scientific evidence for causation. *Inter J Occup Med Tox.* 4(1):3-14, 6/1995.
 151. Brautbar, N., A. Campbell. Silicone is a potential carcinogen. *Inter J Occup Med Tox.* 4(1):71-4, 6/1995.
 152. Brautbar, N., A. Campbell. Special editorial: Is there treatment for silicone toxicity? *Inter J Occup Med Tox.* 4(1):15-24, 6/1995.

153. Brautbar, N. Editorial: Silicone toxicity as a result of silicone implants. *Inter J Occup Medox.* 4(1):1-2, 6/1995.
154. Vojdani, A., A. Campbell, R. Karjoo, N. Brautbar. Neuroimmunologic evaluation of patients with silicone implants. *Inter J Occup Med Tox.* 4(1):25-62, 6/1995.
154. Campbell, A., N. Brautbar. Silicone breast implant recipients and autoimmune endocrinopathy. *Inter J Occup Med Tox.* 4(1):75-78, 6/1995.
156. Vojdani, A., N. Brautbar. Immunologic analyses of blood samples from workers exposed to methyl tertiary-butyl ether in service stations. Sixteenth Annual Meeting of the American College of Toxicology, 8/1995.
157. Jones, K., N. Brautbar. Toxicity to the lung in patients with prolonged exposure to organic solvents. Thirty-Fifth Annual Meeting of the Society of Toxicology, 12/1995.
158. Brautbar, N. Association or flawed methodology for assessment or causation: critical analysis of the most recent New England study claiming no association between silicone breast implants and connective tissue disease. *Inter J Occup Med Tox.* 4(4):413-15, 1995.
159. Brautbar, N., K. Jones. Abstract. Neurotoxic effects of industrial solvents. Spring 1996 Meeting of the American Academy of Preventive Medicine, 1/1996.
160. Mordechai, E., A. Vojdani, L. Magtoto, P.C. Choppa, N. Brautbar. Abstract. Induction of apoptosis in individuals exposed to methyl tertiary-butyl ether (MTBE). Society of Toxicology National Meeting, 1996.
161. Vojdani, A., E. Mordechai, N. Brautbar. Abstract. Detection of circulating methyl tertiary-butyl ether (MTBE) antibodies in petrol station attendants. Society of Toxicology National Meeting, 1996.
162. Jones, R. Kathleen, N. Brautbar. Reactive airway disease in patients with prolonged exposure to industrial solvents. *Toxicology and Industrial Health*, Vol. 13, No. 6, pp 743-750, 1997.
163. Vodjani, A., H. Kalhor, N. Brautbar. Expression of CYP1A1 gene in peripheral lymphocytes as a marker of exposure to petroleum products in service stations. American Chemical Society, Submitted.
164. Altura, M.B., A. Gebrewold, B. Altura, N. Brautbar. Magnesium depletion impairs myocardial carbohydrate and lipid metabolism and cardiac bioenergetics and raises, myocardial calcium content in vivo: relationship to etiology of cardiac diseases. *Biochem Mol Biol Int.* 40(6):1183-90, December 1996.
165. Vojdani, A., G. Namatalla, N. Brautbar. Methyl tertiary-butyl ether antibodies among gasoline service station attendants. *Ann NY Acad Sci.* 837:96-104, 1997.

166. Vojdani, A., E. Mordechai, N. Brautbar. Abnormal apoptosis and cell cycle progression in humans exposed to methyl tertiary-butyl ether: The role of NF-kB. *Human & Experimental Toxicology*. 16:485-494, 1997.
167. Brautbar, N. Science and the law: scientific evidence, admissibility, reliability, and the "Daubert" decision. *J Clean Technol Environ Toxicol & Occup Med*. Vol. 6, No. 1, 1997.
168. Brautbar, N., K. Jones. Abstract. Neurotoxic effects of industrial solvents (IS). American College of Toxicology, Eighteenth Annual Meeting, 1997.
169. Lin, R., N. Brautbar. Abstract. Industrial solvents exposure and human immune response. Society of Toxicology, Annual Meeting, 1998.
170. Brautbar, N., R. Lin, A. Vojdani. Abstract. Mixed solvents exposure, autoimmunity and connective tissue disease. Society of Toxicology, Annual Meeting, 1998.
171. Joyner, L.R., A. Desai, N. Brautbar. Abstract. Reactive airway disease syndrome (RADS) in patients exposed to nitrogen tetroxide (N₂O₄). Society of Toxicology, Annual Meeting, 1998.
172. Joyner, L.R., P. Harch, A. Desai, N. Brautbar. Chronic neurological symptomatology and abnormal SPECT tomographic analysis of the brain after nitrogen tetroxide exposure. Society of Toxicology, Annual Meeting, 1998.
173. Brautbar, N., V. Chen. Establishing causation in forensic medicine (from Henle to Bradford-Hill). *J Clean Technol Environ Toxicol & Occup Med*. Vol 6, No 4, pages 345-350, 1997.
174. Brautbar, N., A Vojdani. Effects of drinking water contaminated with MTBE on human cell cycles and specifically apoptosis. Annual Ramazzini Days, Collegium Ramazzini, Carpi (Italy), 1997.
175. Brautbar, N, K. Jones. Industrial solvents exposure and reactive airway disease. Annual Ramazzini Days, Collegium Ramazzini, Carpi (Italy), 1997.
176. Brautbar, N., K. Jones. Occupational exposure to industrial solvents (IS) and neurotoxicity. ISEE/ISEA Joint Conference 1998, Accepted for presentation (08/17/1998).
177. Brautbar, N. K. Jones. Prolonged exposure to volatile industrial solvents and the development of reactive airway disease: role of methacholine stimulation test. *Eur J Oncol*. 3(4):395-398, 1998.
178. Vojdani, A., N. Brautbar. Contaminated drinking water with MTBE and gasoline: immunological and cellular effects. *Euro J Oncol*. 3(3):191-199, 1998.
179. Vojdani, A., N. Brautbar, C. Tagle, P. Choppa. Polymorphisms in chemical metabolizing enzymes as a mechanism responsible for altered immune functions in patients with chemical sensitivities. American Chemical Society, National Meeting, 1998.

180. Brautbar, N, N. Navizadeh. Sewer workers: occupational risk for hepatitis C – report of two cases and review of literature. *Archives of Environmental Health*. Volume 54, No. 5, pages 328-330, September/October 1999.
181. Brautbar, N, R. Lin, A. Vojdani. Solvent exposure, autoimmunity and connective tissue diseases. 2nd International Congress for Autoimmunity, Israel, 1999.
182. Joyner, LR, N. Brautbar. Accidental release of nitrogen tetroxide (N2O4) causing reactive airway disease in exposed patients. Annual Ramazzini Days, Collegium Ramazzini, 1998.
183. Brautbar, N., A. Vojdani. White blood cell DNA adducts and immunological abnormalities in humans exposed to contaminated drinking water containing gasoline and MTBE. Annual Ramazzini Days, Collegium Ramazzini, 1998.
184. Brautbar, N. Ammonia exposure: a common cause for sinusitis – a case report and review of the literature. *Toxicology & Industrial Health*, Vol. 14, No. 6, pages 891-895, 1998.
185. Brautbar, N. Science and the law: scientific evidence, causation, admissibility, reliability. “Daubert” decision revisited. *Toxicology and Industrial Health*. 15, pages 532-551, 1999.
186. Brautbar, N., A. Barnett. Hydrocarbon exposure & chronic renal disease. *Environmental Epidemiology and Toxicology*, 1999, 1, 163-166, 1999.
187. Vojdani, A., N. Brautbar. White blood cell DNA adducts and immunological abnormalities in humans exposed to contaminated drinking water containing gasoline and MTBE. *Eur J Oncol*. Volume 4, Number 5, pages 573-578, 1999.
188. Brautbar, N., R. Lin, A. Vojdani. Solvent exposure, autoimmunity and connective tissue diseases. *Journal of Autoimmunity*. Proceedings of the 2nd International Congress on Autoimmunity, March 7-11, 1999.
189. Brautbar, N., T. Callahan, W. Shell, L. Joyner. Cardiac toxicity of nitrogen tetroxide: QTc prolongation in exposed patients. Society of Toxicology, Annual Meeting, 2000.
190. Shell, W.E., T. Callahan, L. Joyner, E. Charuvastra, R. Haley, N. Brautbar. Detection and quantification of autonomic dysfunction associated with exposure to environmental toxins. Submitted for publication.
191. Brautbar, N., R. Lin, A. Vojdani. Solvent exposure, autoimmunity and connective tissue diseases. *Journal of Autoimmunity*. Annual Ramazzini Days, Collegium Ramazzini, 1999.
192. Brautbar, N., R. Lin, G. Gaines, A Vojdani. Occupational solvent exposure, autoimmunity and connective tissue disease. *Eur J Oncol*. Volume 5, Suppl 2, pages 17-20, 2000.

193. Teitelbaum, D.T., N. Brautbar, M. Mehlman, J. LaDou. To the Editor: Benzene and multiple myeloma: appraisal of the scientific evidence. *Blood*. Volume 95, Number 9, 2995-2996, May 1, 2000.
194. Brautbar, N., T. Callahan, W. Shell, L.R. Joyner. Effects of nitrogen tetroxide on the heart. Annual Ramazzini Days, Collegium Ramazzini, 2000.
195. Shell, W.E., L.R. Joyner, E. Charuvastra, T. Callahan, N. Brautbar. Detection and quantification of autonomic dysfunction associated with exposure nitrogen tetroxide. Submitted for publication, 2002.
196. Joyner, L.R., N. Brautbar. Reactive airway disease (RADS) after sudden and not so sudden exposure to irritant vapors and fumes. First International Symposium on "The Use of Induced Sputum in Medicine", in conjunction with the Israel Society of Occupational Medicine and Israel Society of Pulmonology, March 28-31, 2001.
197. Shell, W.E., E. Charuvastra, L.R. Joyner, N. Brautbar, G.M. Vincent. Alteration of the circadian rhythm of QTc interval and heart rate variability in patients exposed to nitrogen tetroxide in Bogalusa, Louisiana. Annual Ramazzini Days, Collegium Ramazzini, 2001.
198. Brautbar, N., J.A. Williams II. Industrial solvents and liver toxicity: risk assessment, risk factors and mechanisms. *International Journal of Hygiene and Environmental Health*. 205, 1-13, 2002.
199. Brautbar, N. Industrial solvent exposure and chronic kidney disease. *International Journal of Occupational and Environmental Health*, 10:91-95, 2004.
200. Brautbar, N., M.P. Wu, E.D. Richter. Chronic ammonia inhalation and interstitial pulmonary fibrosis: a case report and review of the literature. *Arch Environ Health*. 58(9):592-6, Sep 2003.
201. Kralik, M., V. Macho, N. Brautbar, A. Vachalkova, J. Mikulec. Engine fuels in the 21st century. *Petroleum and Coal*. 43 (2) 72-79, 2001.
202. Brautbar, N., M. Kralik, V. Macho, J. Mikulec, A. Vachalkova. A continuation of the MTBE story. *Petroleum and Coal*. 43 (2) 101-106, 2001.
203. Friedman, L.S., N. Brautbar, P. Barach, A. Wolfe, E.D. Richter. Creatine phosphate kinase elevations signaling muscle damage after exposures to anticholinesterases: two sentinel patients. *Archives of Environmental Health*. Vol 58, No. 3. March, 2003.
204. Brautbar, N., J. Howard. Phosphine toxicity: report of two cases and review of the literature. *Toxicology and Industrial Health*. 18: 71-75, 2003.
205. Brautbar, N. Rapid development of brain tumors in 2 cellular phone testers. *Arch Environ Health*. 58(9):606, Sep 2003.
206. Brautbar, N. Industrial solvents and kidney disease. *Int J Occup Environ Health*. 10(1):79-83, Jan-Mar 2004.

207. Brautbar, N., E.D. Richter, G. Neshier. Systemic vasculitis and prior recent exposure to organic solvents: report of two cases. *Archives of Environmental Health*. 59(9):1-3, Sep 2005.
208. Brautbar, N., M.P. Wu, E. Gabel, L. Regev. Industrial, non-chlorinated solvent exposure and kidney cancer. *Collegium Ramazzini*, 2005. Abstract for Framing the Future in the Light of the Past Living in a Chemical World, The 3rd International Scientific Conference, Bologna, Italy. September 18-21, 2005.
209. Brautbar, N., B.S. Levy. Medical monitoring to early detect and cure from a latent disease. *Collegium Ramazzini*, 2005. Abstract for Framing the Future in the Light of the Past Living in a Chemical World, The 3rd International Scientific Conference, Bologna, Italy. September 18-21, 2005.
210. Brautbar, N., M.P. Wu. Leukaemia and low level benzene concentrations: revisited. *Eur J Oncol*. 11(1):15-24, Mar 2006.
211. Brautbar, N., B.S. Levy. Abstract. Medical monitoring for early detection of latent disease. *Ann NY Acad Sci*. 1076:927, Sep 2006.
212. Brautbar, N., M.P. Wu, E. Gabel, L. Regev. Occupational kidney cancer: exposure to industrial solvents. *Ann NY Acad Sci*. 1076:753-64, Sep 2006.
213. Brautbar, N., M.P. Wu. Toxic and carcinogenic chemical exposure: medical monitoring for early detection of latent disease. *Eur J Oncol*. 11(3):157-163, Sep 2006.
214. Freedman, L., P. Barach, N. Brautbar, E.D. Richter. Brautbar, N.. Latency: An important consideration in gulf war syndrome. *Neurotoxicology*. 2007;28:2043-1045.
215. Brautbar, N., R. Zlotolow, M.P. Wu. Occupational bronchiolitis obliterans (B.O.) in food flavoring. *Collegium Ramazzini*, 2007. Abstract for Ramazzini Days 2007 - Jubilee Celebration, 25th Anniversary of the Collegium Ramazzini, Carpi, Italy. October 25-28, 2007.
216. Brautbar, N., J. J.A. Williams II, M.P. Wu. Chapter 12. Cardiotoxicity of industrial chemicals and environmental pollution. *Cardiovascular Toxicology*, Fourth Edition. D. Acosta Jr. (Ed). Informa Healthcare USA, Inc. 2008:429-545.
217. Zlotolow, R., N. Brautbar, M.P. Wu. Occupational bronchiolitis obliterans in food flavoring. *Collegium Ramazzini Online Journal*. Online October 24, 2008, at: <http://www.collegiumramazzini.org/gest/up/Zlotolow.pdf>.
218. Zlotolow, R., L. Regev, M.P. Wu, N. Brautbar. Benzene Metabolite Hydroquinone and Leukemia. A Case Report. Abstract for Ramazzini Days 2010. *Collegium Ramazzini*, Carpi, Italy. October 22-24, 2010.

219. Regev, L., M.P. Wu, R. Zlotolow, N. Brautbar. Hydroquinone, a benzene metabolite, and leukemia: A case report and review of the literature. *Toxicol Ind Health. Toxicol Ind Health.* 2012 Feb;28(1):64-73.

Book Chapters and Reviews:

1. Brautbar N., M. Walling, J. Coburn. Experimental Phosphate Depletion: The Role Of Vitamin D. *Proceedings Of The 3rd International Workshop On Vitamin D. Biochemical, Chemical And Clinical Aspects Related To Calcium Metabolism.* Editors: A Normal, et, al., De Bruyer, New York, 437-9, 1977.
2. Lee, D., N. Brautbar, M. Walling, et. al. Mineral Balance And Gut Sac Transport Studies In Phosphorus Depletion Intact And Hypophysectomized Rats. 3rd International Workshop on Phosphate, Madrid, June 1977.
3. Coburn, J., N. Brautbar. Disease States In Man Related to Vitamin D. In: *Vitamin D - Molecular Biology and Clinical Nutrition.* A. Normal (Ed). Marcel Dekker, New York, 515-77, 1980.
4. Brautbar, N., C.R. Kleeman. Osteodystrophy and Renal Handling of Divalent Ions in Chronic Renal Failure. *Advances in Nephrology.* 8:170-205, 1979.
5. Massry, S.G., N. Brautbar. Renal Handling of Phosphate in Renal Failure. *Renal Handling of Phosphate.* S.G. Massry, H. Fleisch (Eds). Plenum Press, New York, 307-19, 1980.
6. Lee, D.B.N., N. Brautbar, C.R. Kleeman. Disorders of Phosphorus Metabolism Disorders of Mineral Metabolism. F. Bromer, J.W. Coburn (Eds). Vol. 3, 1981.
7. Brautbar, N., M.W. Walling, J.W. Coburn. The Role of Phosphorus in the Intestinal Transport of Calcium: Studies in Vitamin D and Deficient Rats. *Phosphate and Minerals in Health and Disease.* S.G. Massry, E. Ritz, H. Jahn (Eds). Plenum Press, New York, 391-9, 1980.
8. Levine, B.S., D.B. Lee, N. Brautbar, M.W. Walling, C.R. Kleeman, J.W. Coburn. Effects on Mineral Homeostasis of 1,25 (OH) 2D3 and 23, 25 (OH) 2D3 Alone in Combination, In Rats. *Vitamin D: Basic Research and its Clinical Application.* A. Norman, K. Schaefer, D. Herrath, H. Grigoeit, J.W. Coburn, H.F. DeLuca, E.B. Mawer, T. Suda, W. DeGruyter (Eds). Berlin, New York. 429-31, 1979.
9. Levine, B.S., N. Brautbar, D.B.N. Lee, M.W. Walling, C. Kurokaw, C.R. Kleeman, J.W. Coburn. The Effect of Vitamin D3 and its Metabolism on Magnesium Metabolism. *Vitamin D: Basic Research and its Clinical Application.* A. Norman, K. Schaefer, D. Herrath, H. Grigoleit, J. Coburn, H. DeLuca, E. Mower, T. Suda (Eds). 1979.
10. Lee D.B., B.S. Levine, M.W. Walling, N. Brautbar, C.R. Kleeman, W. Millis, J.W. Coburn. Regulation of Serum Phosphorus by 1,25 (OH) D23 Vitamin D: Basic Research and its Clinical Application, op cit. 939-41, 1979.

11. Nortman, D.F., J.W. Coburn, N. Brautbar, D. Sherrard, M.R. Haussler, F.R. Singer, A.S. Erickman, R.T. Sarton. Treatment of Mesenchymal Tumor Associated Osteomalacia with 1,25 (OH) 2D3: Report of a Case. *Vitamin D: Basic Research and its Clinical Application*, op cit. 1167-9, 1979.
12. Massry, S.G., N. Brautbar. The Inter-Relationship Between Phosphate and Magnesium Metabolism. *Phosphate and Minerals in Health and Disease*. S.G. Massry, E. Ritz, H. Jahn (Eds). Plenum Press, New York, 51-66, 1980.
13. Massry, S.G., N. Brautbar, D. Goldstein. Renal Handling of Calcium Magnesium, and Phosphorus in Renal Failure. *Nephrology*. W. Flamenbrawn, R. Hamburger (Eds.) Lippincott, 159-93, 1982.
14. Brautbar, N. Extrarenal Factors in Acid Base Balance. *Seminars in Nephrology*. 1:232-50, 1981.
15. Brautbar, N., D.B.N. Lee, C.R. Kleeman. Divalent Ion Metabolism. *Contemporary Metabolism*. N. Freinkel (Ed) Plenum Press, New York. 441-509, 1982.
16. Lee, D.B.N., N. Brautbar, S.G. Massry. Renal Production and Metabolites. *Seminars in Nephrology* 1:335-55, 1981.
17. Brautbar, N., R. Baczynski, C. Carpenter, S.G. Massry. Effects of Phosphate Depletion on the Myocardium. *Regulation of Phosphate and Mineral Metabolism*. 5th International Workshop on Phosphate & Other Minerals. Plenum Press, New York, 199-207, 1982.
18. Massry, S.G., N. Brautbar. Effects of Electrolyte Disturbances on the Kidney. Textbook in Nephrology. 1:148-58. R. Glasscock, S.G. Massry (Eds). Williams and Wilkins, 1983.
19. Brautbar, N. Calcium, Magnesium, and Phosphate Excretion. Renal Physiology. D. Marsh (Ed). Raven Press, 138-50, 1983.
20. Brautbar, N., G. Gruber, D.B.N. Lee. Disorders of Calcium, Phosphorus and Magnesium. G. Gonick (Ed). Current Nephrology 7:371-487, 1984.
21. Brautbar, N., C.R. Kleeman. Hyper and Hypophosphatemia. *Therapy of Renal Diseases and Related Disorders: Current Therapy*. W. Suki, S.G. Massry (Eds). Martinus Nijhoff Publishers, 105-29, 1984.
22. Kleeman, C.R., N. Brautbar. Clinical Aspects of Impaired Phosphate Homeostasis. Clinical Disorders of Fluid and Electrolyte Metabolism. C.R. Kleeman, R. Narins (Eds). 4th Edition, McGraw Hill, 1987.
23. Nakhoul, F., G. Yu, N. Brautbar, D. Lee. Hypophosphatemia and Phosphorus Depletion. R.J. Glasscock (Ed). Current Therapy in Nephrology and Hypertension, 3rd Edition, BC Decker, Inc., 1991.
24. Brautbar, N., A. Roy, P. Hom, D.B.N. Lee. Hypomagnesemia and Hypermagnesemia. Metal Ions in Biological Systems. 26:285-320, 1990.

25. Kayne, L., A. Koteva, N. Brautbar, D.B.N. Lee. Intestinal Absorption of Phosphate. S.G. Massry, R.J. Glasscock (Eds). Textbook of Nephrology, 3rd Edition, 22(1):380-88, 1995.
26. Brautbar, N., A. Campbell. Silicone Breast Implants and Autoimmune Disease: Evidence for Causation. N. Brautbar, A. Campbell, M. Mehlman (Eds). Health Effects of Toxic Chemicals, Silicone, Asbestos, and Man-Made Fibers. Princeton Scientific Publishing, 23-36, 1994.
27. Campbell, A., N. Brautbar. Silicone Breast Implants and Immunological Disease: Historical Background and Clinical Overview. N. Brautbar, A. Campbell, M. Mehlman (Eds). Health Effects of Toxic Chemicals, Silicone, Asbestos, and Man-Made Fibers. Princeton Scientific Publishing, 243-8, 1994.
28. Lee, D.B.N., A. Campbell, N. Brautbar. Erythropoietin and the Renin-Angiotensin Axis: The Revival of an Old Association. K.S. Chugh (Ed), Asian Nephrology. Oxford University Press, 1994.
29. Lee, D.B.N., A. Campbell, N. Brautbar. Cyclosporin and the Renin Axis. K.S. Chugh (Ed), Asian Nephrology. Oxford University Press, 1994.
30. Brautbar, N., A. Campbell, M. Mehlman. Health Effects of Toxic Chemicals, Silicone, Asbestos, and Man-Made Fibers. Princeton Scientific Publishing Co., Inc., 1994.
31. Brautbar, N., A. Vojdani. The Augmented Breast. D.P. Gorczyca, R.J. Brenner (eds). Immunological and Clinical Aspects of Silicone in Women With Breast Implants. Thieme. 1997.
32. Brautbar, N. Scientific Evidence. M. Shiffman (ed). Ethics in Forensic Science and Medicine: Guidelines for the Forensic Expert and the Attorney. Charles C. Thomas Publisher, Ltd., 1999.
33. Brautbar, N. Industrial Solvents and Kidney Disease, Chapter 20.4, In: Handbook of Solvents, George Wypych (ed), William Andrew Publishing/ChemTec Publishing, 2001.
34. Brautbar, N. Lymphohematopoietic Study of Workers Exposed to Benzene Including Multiple Myeloma, Lymphoma and Chronic Lymphatic Leukemia, Chapter 20.5, In: Handbook of Solvents, George Wypych (ed), William Andrew Publishing/ChemTec Publishing, 2001.
35. Brautbar, N. Chromosomal aberrations and sister chromatoid exchanges, Chapter 20.6, In: Handbook of Solvents, George Wypych (ed), William Andrew Publishing/ChemTec Publishing, 2001.
36. Brautbar, N. Hepatotoxicity, Chapter 20.7, In: Handbook of Solvents, George Wypych (ed), William Andrew Publishing/ChemTec Publishing, 2001.

37. Brautbar, N., J. J.A. Williams II, M.P. Wu. Chapter 12. Cardiotoxicity of industrial chemicals and environmental pollution. Cardiovascular Toxicology, Fourth Edition. D. Acosta Jr. (Ed). Informa Healthcare USA, Inc. 2008:429-545.
38. Brautbar, N. 19.3. Industrial Solvents and Kidney Disease, In: Handbook of Solvents, Second Edition, George Wypych (ed), William Andrew Publishing/ChemTec Publishing, 2014.
39. Brautbar, N. 19.4. Lymphohematopoietic Study of Workers Exposed to Benzene Including Multiple Myeloma, Lymphoma and Chronic Lymphatic Leukemia, In: Handbook of Solvents, Second Edition, George Wypych (ed), William Andrew Publishing/ChemTec Publishing, 2014.
40. Brautbar, N. 19.5 Chromosomal aberrations and sister chromatoid exchanges, In: Handbook of Solvents, Second Edition, George Wypych (ed), William Andrew Publishing/ChemTec Publishing, 2014.
41. Brautbar, N. 19.6 Hepatotoxicity, In: Handbook of Solvents, Second Edition, George Wypych (ed), William Andrew Publishing/ChemTec Publishing, 2014.
42. Brautbar, N., M.P. Wu. 19.3. Nephrotoxicity of industrial solvents, In: Handbook of Solvents, 3rd Edition. Volume 2. Use, Health, and Environment. Wypych, G. (Ed.). Toronto: ChemTec Publishing, 2019.
43. Brautbar, N., M.P. Wu, A.E. Rieders. 19.4. Lymphohematopoietic malignancies among workers exposed to benzene, including leukemia, lymphoma and multiple myeloma, In: Handbook of Solvents, 3rd Edition. Volume 2. Use, Health, and Environment. Wypych, G. (Ed.). Toronto: ChemTec Publishing, 2019.
43. Brautbar, N., M.P. Wu, A.E. Rieders. 19.5 Genotoxicity of benzene, In: Handbook of Solvents, 3rd Edition. Volume 2. Use, Health, and Environment. Wypych, G. (Ed.). Toronto: ChemTec Publishing, 2019.
44. Brautbar, N. 19.6 Chromosomal aberrations and sister chromatid exchanges. In: Handbook of Solvents, 3rd Edition. Volume 2. Use, Health, and Environment. Wypych, G. (Ed.). Toronto: ChemTec Publishing, 2019.
45. Brautbar, N., M.P. Wu. 19.7 Hepatotoxicity of industrial solvents, In: Handbook of Solvents, 3rd Edition. Volume 2. Use, Health, and Environment. Wypych, G. (Ed.). Toronto: ChemTec Publishing, 2019.

Service Record and Professional Leadership: (Past and Present)

A. **Academic Administration, Departmental, School and University Committee Membership:**

1. Committee for the course in Physiology-Renal and Electrolyte for Year I.
2. Committee for the course in Nephrology for Year II.
3. Committee for the Mechanism of Diseases for Years II and III.

4. Director of Renal Research Laboratory.
5. Member, Radiation Safety Committee.
6. Director, Renal and Electrolyte Outpatient Services, LAC/USC Medical Center.

B. Chairmanships and Organizing Committees:

1. Chairman of the Public Relation Committee for the Scientific Advisory Committee of the Kidney Foundation of Southern California.
2. Chairman, Annual Scientific Symposium, Kidney Foundation of Southern California.
3. Organizing Committee, Int'l. Nephrology Congress, 1984.
4. Program Chairman, 2nd Int'l. Congress on Myocardial Metabolism and Compartmentation, 1983.
5. Member, Research Committee, Scientific Advisory Committee of the Kidney Foundation of Southern California.
6. Consultant and Reviewer for multiple journals (see bibliography).
7. Chairman, Organizing Committee, American Society for Magnesium Research, 1984.
8. Chairman, Organizing Committee, 2nd Int'l. Congress on Myocardial and Cellular Bioenergetics and Compartmentation, 1984.
9. Chairman, Nephrology Section, Hollywood Presbyterian Medical Center, 1980 to present.
10. Member, Acute Utilization Review Committee, Hollywood Presbyterian Medical Center, 1983 to 1985.
11. Member, Medical Records Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1983 to 1985.
12. Chairman, Department of Medicine, Hollywood Presbyterian Medical Center. (2 years).
13. Member, Clinical Nutrition Committee, Queen of Angels/ Hollywood Presbyterian Medical Center, 1994-present.
14. Member, Quality Management Committee, Queen of Angels /Hollywood Presbyterian Medical Center, 1996.

15. Member, Emergency Room Services Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1996.
 16. Chairman, Subacute Care Committee, Queen of Angels/ Hollywood Presbyterian Medical Center, 1996.
 17. Member, Medicine Supervisory Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1997
 18. Member, Quality Management Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1997
 19. Member, Emergency Room Services Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1997
 20. Member, Medicine Supervisory Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1998
 21. Member, Quality Management Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1998
 22. Member, Emergency Room Services Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1998
 23. Vice Chairman, Department of Medicine, Queen of Angels/Hollywood Presbyterian Medical Center, 1999, 2000, 2001
 24. Chairman, Pharmacy & Therapeutics Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1999.
 25. Chairman of By-Laws Committee, Queen of Angel/Hollywood Presbyterian Medical Center, 2000.
 26. Member, Credentialing Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 2001.
 27. Vice Chairman, Department of Medicine, Queen of Angles/Hollywood Presbyterian Medical Center, 2001, 2002.
- C. **Chairing Scientific Sessions in National and International Meetings:**
1. American Society of Nephrology, 1979.
 2. International Society for Phosphate and Mineral Metabolism, 1978.
 3. International Society for Phosphate and Mineral Metabolism, 1981.
- D. **Invited Speaker, Professorship or Visiting Scientist:**
1. Annual Gordon Conference on Magnesium, 1980.

2. Visiting Scientist, Max Plank National Institute; Heidelberg, Germany, Department of Biochemistry, 1980.
3. International Society for Phosphate and Mineral Metabolism, 1981.
4. National Institute of Health, Renal and Electrolyte Laboratory, 1981.
5. Yale University and Medical School, Department of Medicine and Physiology, 1981.
6. Downstate University and V.A. Hospital, New York Medical School, 1981.
7. University of Virginia, Richmond, Department of Medicine and Nephrology, 1981.
8. International Congress for Nutrition in Uremia, 1982.
9. Harvard Medical School, Peter Brent Brigham and Women's Hospital, Division of Medicine, Department of Nephrology, 1982.
10. Mayo Clinic, Mayo Medical School, Department of Nephrology and Physiology, 1982.
11. International Society for Phosphate and Mineral Metabolism, 1983.
12. Annual Gordon Conference on Magnesium, 1984.
13. International Congress of Nephrology, 1984.
14. National Institute of Health, Renal and Electrolyte Laboratory, 1984.
15. Weitzman Institute for Sciences, Rehovot Israel, Visiting Professor, Department of Agriculture, 1988.
16. Beilinson Hospital, Tel Aviv University, Visiting Professor, Department of Medicine, 1988.
17. Collegium Ramazzini, Experimental Cancer Center, Bologna, Italy, 1995.
18. Hadassah Medical Center, Hebrew University, Department of Environmental Medicine, Israel, 1995.
19. Hadassah Medical Center, Hebrew University, Department of Immunogenetics and Tissue Typing, Israel, 1996.
20. National Institute of Public Health, Czech Republic, 1996.
21. Hebrew University-Hadassah School of Medicine, Jerusalem, Lautenberg Center for General & Tumor Immunology, Israel, 1996.

22. Autoimmune Research Institute and Department of Medicine, Sheba, Tel Hashomer Hospital, and University of Tel-Aviv, 1996.
23. Lautenberg Center for General and Tumor Immunology, Hebrew University, Hadassah Medical School, Israel, 1997.
24. Hadassah Medical Center, Hebrew University, Department of Environmental Medicine, Israel, 1997.
25. Institute of Biochemistry, Food Science and Nutrition, Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot Israel, 1997.
26. Technion-Israel Institute of Technology, Department of Nephrology, Israel, 1997.
27. Hadassah Medical Center, Hebrew University, Department of Environmental Medicine, Israel, 1998.
28. Joseph H & Bell R Braun Hebrew University – Hadassah School of Public Health & Community Medicine, Department of Occupational & Environmental Medicine, Israel, 1998.
29. Baylor College of Medicine, Houston, Texas, 1998.
30. Hebrew University-Hadassah School of Medicine, Jerusalem, Lautenberg Center for General & Tumor Immunology, Israel, 1998.
31. Technion – Israel Institute of Technology, Israel, 1998
32. Bnai Zion – Medical Center, Department of Emergency Medicine, Israel, 1998
33. National Judicial College, “Science and the Courtroom”, Reno, Nevada, 1998
34. 2nd International Autoimmunity Congress, Tel Aviv, Israel, 1999
35. Israel Association for Occupational Medicine, Israel, 1999
36. Hebrew University-Hadassah School of Medicine, Jerusalem, Lautenberg Center for General & Tumor Immunology, Israel, 1999
37. Joseph H & Bell R Braun Hebrew University – Hadassah School of Public Health & Community Medicine, Department of Occupational & Environmental Medicine, Israel, 1999
38. Technion – Israel Institute of Technology, Israel, 2001
39. Joseph H & Bell R Braun Hebrew University – Hadassah School of Public Health & Community Medicine, Department of Occupational & Environmental Medicine, Israel, 2001

39. Israel Society of Occupational Medicine, First International Symposium on "The Use of Induced Sputum in Medicine", 2001
40. Department of Epidemiology, Tel Aviv University, School of Public Health, Israel, October, 2003. Visiting Professor
41. Technion Medical School Research Institute, Haifa, Israel, October, 2003. Visiting Professor
42. Department of Environmental Health, Hebrew University, Hadassa Medical Center, Israel, October 2003. Visiting Professor
43. Collegium Ramazzini, Carpi, Italy, October, 2003.
44. Attended Recent Advances in Benzene Toxicity, International Conference, October 9-12, 2004, Munich, Germany.
45. Technion Israel Institute of Technology, Ruth and Bruce Rappaport Faculty of Medicine, October, 2004 Industrial Toxic Hazards and Solvent Neuropathy.
46. Visiting Professor of Epidemiology, Hebrew University School of Public Health and Community Medicine, Occupational and Environmental Medicine, October, 2004.
47. Visiting Professor Tel Aviv University, School of Public Health, Israel, October, 2004.
48. Collegium Ramazzini, Carpi, Italy, October 2004.
49. Visiting Professor, Faculty of Medicine, Hebrew University of Jerusalem, May 13-May 19, 2009
50. Visiting Professor, Department of Epidemiology, Public Health Program, Tel Aviv University, Sackler Faculty of Medicine, May 13-25, 2009.
51. Visiting Professor, Environmental Toxicology Graduate Program, University of California, Riverside, California, February 15, 2012.
52. Visiting Professorship, Department of Immunology, Hebrew University, October 15-17, 2012.
53. Visiting Professor, Department of Epidemiology, Tel Aviv University, October 18-23, 2012.
54. Visiting Professor, National Cancer Institute "Regina Elena", Istituti Fisioterapici Ospitalieri, Istituto Regina Elena – Istituto San Gallicano, Istituti di Ricerca e Cura a Carattere Scientifico, Rome, Italy, October 23-26, 2012.

55. Visiting Professor, Department of Epidemiology, Tel Aviv University, October 15-22, 2013.
56. Visiting Professor, Hebrew University-Hadassah Medical School, Jerusalem, Israel, October 9-14, 2015.
57. Visiting Professor, Tel Aviv University, School of Public Health, Department of Epidemiology, October 10-14, 2015.

Teaching Record:

1. Full-time responsibility as an Attending Staff Physician in Renal Ward for 2 months per year. This includes daily teaching rounds and consult rounds, 1977-1987.
2. Residents and Students seminars in Nephrology, 1977-1987.
3. Attending on the Student Ward for 6-8 weeks per year. This includes teaching rounds and case discussions, 1977-1987.
4. Attending on General Medicine Ward for 2-3 months per year. This includes presentation of cases, intake rounds and daily teaching rounds, 1977-1987.
5. Course in Renal Physiology - Fluids and Electrolytes, for Year I students, 1977-1987.
6. Course in Nephrology for Year II students, 1977-1987.
7. Mechanism of Disease for Years II and IV, 1977-1987.

Past and Present Teaching:

1. Clinical Professor of Medicine, University of Southern California School of Medicine, Department of Medicine. 1-2 months per year. Daily rounds, teaching rounds, patient care, student seminars.
2. Advisor, Collegium Salerni USC. Advisor for 1st year medical students.
3. In-office teaching (medical students), University of Southern California School of Medicine, Department of Medicine

Civic Activity Past and Present:

1. Member, Bereavement Committee, Sinai Temple, Los Angeles, California.
2. Member, Board of Directors, Sinai Temple, Los Angeles, 1994-1996.
3. Medical opinion for Aleph Institute, Los Angeles, California, *in kind* work, January 23, 2018.

Testimony in State & U.S. Government Committees:

1. California State Senate Transportation Committee, 04/15/97

(Regarding Gasoline & MTBE Toxicity)

2. California State Senate Environmental Quality Committee, 05/12/97
(Regarding Gasoline & MTBE Toxicity)
3. U.S. Senate Committee on Environment & Public Works, 12/02/97
(Regarding Gasoline & MTBE Toxicity)
4. California State Senate Environmental Quality Committee, 04/15/98
(Regarding Gasoline & MTBE Toxicity)

Most recent speaking engagements:

1. United States Senate Environment and Public Works Committee. Statement of Nachman Brautbar, MTBE Water Pollution, in front of the United States Senate Environment and Public Works Committee. Los Angeles, California. December 9, 1997.
2. American College of Toxicology, 25th Annual Meeting. Palm Springs, California. November 7-10, 2004. Invited Speaker.
3. Mealey's Bextra and Celebrex Litigation Conference. Chicago, Illinois. May 11, 2005. Presented on the topic of Bextra, Stevens-Johnson Syndrome, and Toxic Epidermal Necrolysis.
4. California Society of Industrial Medicine and Surgery (CSIMS) 20th Annual Mid-Summer Seminar. Anaheim, California. June 10-12, 2005. Presented on the topic of cancer presumption.
5. 3rd International Scientific Conference of the Collegium Ramazzini, Framing the Future in Light of the Past: Living in a Chemical World. Bologna, Italy. September 18-21, 2005. Presented two manuscripts: 1) Brautbar N, Wu MP, Gabel E, Regev L. Industrial, non-chlorinated solvent exposure and kidney cancer. Collegium Ramazzini, 2005. Abstract for Framing the Future in the Light of the Past Living in a Chemical World, The 3rd International Scientific Conference Bologna, September 18-21, 2005; 2) Brautbar N, Wu MP. Medical monitoring to early detect and cure from a latent disease. Collegium Ramazzini, 2005. Abstract for Framing the Future in the Light of the Past Living in a Chemical World, The 3rd International Scientific Conference Bologna, September 18-21, 2005.
6. HarrisMartin's Benzene Litigation Conference. Marina del Rey, California. September 29-30, 2005. Presented on the following topic: "General Causation to Specific Causation."
7. Los Angeles Valley Applicants' Attorneys Association. Encino, California. March 8, 2006. Presented on the following topic: "AMA 5th Guides Application for Impairment Rating."

8. Harbor Chapter of the California Applicant's Attorneys Association. Long Beach, California. March 21, 2006. Presented on the following topic: "AMA 5th Guides Application for Impairment Rating."
9. American Bar Association Toxic Torts & Environmental Law Committee Meeting. "Science and the Law 2006: A Day in the Life of Toxic Torts and Environmental Law." Phoenix, Arizona. April 7, 2006. Presented on the following topic: "Recent News in Benzene and Hematopoietic Malignancies."
10. California Society of Industrial Medicine and Surgery (CSIMS) 21st Annual Mid-Summer Seminar. Incline Village, Nevada. June 9-11, 2006. Presented on the following topic: "Apportionment 2006."
11. Mealey's Benzene Litigation Conference. Marina del Rey, California. June 12-13, 2006. Presented on the following topic: "Low Levels of Benzene and Hematopoietic Malignancies."
12. California Department of Industrial Relations, Division of Occupational Safety and Health (DOSH), better known as Cal/OSHA. First Advisory Meeting on Diacetyl and Chemicals in the Flavor Manufacturing Industry in California. Oakland, California. September 28, 2006.
13. HarrisMartin's Benzene Litigation Conference. Las Vegas, Nevada. May 17-18, 2007. Presented on the following topic: "Benzene Exposure Levels."
14. Mealey's Benzene Litigation Conference. Santa Monica, California. June 4-5, 2007. Presented on the following topic: "Benzene Exposure Levels and Leukemia."
15. Los Angeles Metropolitan Applicants' Attorney Association (LAMAAA). Commerce, CA. August 23, 2007. Presented on the following topic: "Tackling the AMA Guides: Internal Medicine. Impairment Rating. AMA 5th Guides."
16. HarrisMartin's Benzene Litigation Conference: Trial of a Benzene-Leukemia Case from Jury Selection to Verdict Agenda. New York, New York. December 3-4, 2007. Presented on the following topic: "Medical Causation - Examination of Plaintiff and Defense Causation Experts. Benzene and Acute Myeloid Leukemia."
17. Southern California Applicant's Attorneys Association (SCAAA). Los Angeles, California. February 18, 2009. Presented on the following topic: "Handling Sleep Impairment and the Compensable Consequences."
18. Latino Association of Workers' Compensation Professionals. Monterey Park, California. March 19, 2009. Presented on the following topic: "How to Master the Compensable Internal Consequences of an Orthopedic Injury. Impairment Rating, AMA 5th guides. How to Master the Internal Medicine."

19. HarrisMartin's Benzene Causation Conference. Las Vegas, Nevada. May 24-25, 2010. Presented on the following topic: "Medical Causation in Cases Involving Benzene and Multiple Myeloma."
20. HarrisMartin's Conference-Benzene Litigation and Lymphoid Cancers: New Scientific Evidence. Marina del Rey, California. December 9, 2010. Presented on the following topic: "Medical Causation in Cases Involving Benzene and Acute Lymphocytic Leukemia (ALL)."
21. Hadassah Medical Center/Hebrew University. "Effects of benzene and solvents on the immune system." June 2011.
22. Tel Aviv University, Department of Epidemiology. "Solvent exposure and target organ damage." June 2011.
23. Annual Ramazzini Days Meeting 2011. Collegium Ramazzini. Scientific Committee member and meeting participant. Carpi, Italy. October 28-30, 2011.
24. California Applicants' Attorneys Association (CAAA). CAAA 2012 Winter Convention. Rancho Mirage, California. January 29, 2012. Presented on the following topic: "Protecting Your Client's Medical Care: Medical Treatment Utilization Schedule (MTUS) and Internal Medicine."
25. Environmental Toxicology Graduate Program seminar series. University of California, Riverside, California. February 15, 2012. Presented on the following topic: "Causation Revisited: from Daubert to Milward."
26. Tel Aviv University, Department of Epidemiology. Presented on the following topics: "Benzene exposure", "Benzene Affecting the Immune System", "Benzene and Leukemia", "Benzene and Lymphomas", "Hydroquinone and Hematotoxicity". February - March 2012.
27. California Applicants' Attorneys Association (CAAA). Support Staff Seminar. Los Angeles, California. March 10, 2012. Presented on the following topic: "Compensable Consequences of Industrial Injuries."
28. American Bar Association (ABA), Spring Meeting on Toxic Torts. Mock Trial of a Toxic Tort Case. Phoenix, Arizona. March 31, 2012. Participated in a mock trial on benzene toxicity, solvents toxicity and lymphomas.
29. California Society of Industrial Medicine and Surgery (CSIMS). CSIMS 28th Annual Mid-Summer Seminar. Westin Hotel, San Diego, CA. June 14-16, 2012. Participated on panel: "Surviving and Thriving in a Deposition". Specialty Specific Breakout Session: Internal Medicine, presented on the following topic: "1. Precautionary tale of medication use and consequences of industrial injuries; 2. Medical foods in workers' compensation."
30. Collegium Ramazzini. Mount Sinai School of Medicine, New York. June 28, 2012. Presented on the following topic: "Benzene and multiple myeloma."

31. Hebrew University, Department of Immunology. October 15-17, 2012. Genotoxicity and immunotoxicity of industrial solvents.
32. Tel Aviv University, Department of Epidemiology. October 18-23, 2012. Presented on the following topics: "Solvents, genotoxicity and immunotoxicity".
33. National Cancer Institute "Regina Elena", Istituti Fisioterapici Ospitalieri, Istituto Regina Elena – Istituto San Gallicano, Istituti di Ricerca e Cura a Carattere Scientifico. Rome, Italy, October 23-26, 2012. Presented on the following topics: Carcinogenic effects of chemicals on the gastrointestinal tract.
34. LawWorm.com Seminars. The Queen Mary Grand Salon. January 19, 2013. Presented on the following topic: "New and underutilized PD litigation strategies, new regulations, case law update, and the entire playing field post SB 863."
35. California Society of Industrial Medicine and Surgery (CSIMS). CSIMS 28th Annual Mid-Summer Seminar. Fairmont Hotel, Newport Beach, CA. June 20-23, 2013. Specialty Specific Breakout Session: Internal Medicine, presented on the following topic: "Precautionary tale of medication use, drug interactions and consequences of industrial injuries."
36. Tel Aviv University, Department of Epidemiology. October 15-22, 2013. Presented on the following topics: "Solvents, genotoxicity and immunotoxicity".
37. State of California, Department of Industrial Relations, Division of Workers' Compensation. "Internal Medicine: Improving Outcomes When Red Flags Fly." 22nd Annual Education Conference LAX Marriott Hotel. Los Angeles, CA. February 10, 2015.
38. California Society of Industrial Medicine and Surgery (CSIMS). CSIMS 30th Annual Mid-Summer Seminar. Hyatt Regency, Long Beach, CA. June 19-20, 2015. a) Specialty Specific Breakout Session: Internal Medicine. In small groups, the audience analyzes case studies discussing the intricacies and pitfalls of each, from both a treating and forensic perspective. Each group will then bring back the results of their analysis to the entire group. b) Right reporting: Nachman Brautbar, M.D. (causation), WCJ (ret.) Pamela Foust, Esq., Richard Lieberman, M.D., Peter Mandell, M.D.
39. Hebrew University-Hadassah Medical School, Jerusalem, Israel, October 9-14, 2015. Lecture on the role of topoisomerase in carcinogenesis.
40. Tel Aviv University, School of Public Health, Department of Epidemiology, October 10-14, 2015. Seminars on the mechanisms of benzene carcinogenicity and genetic and epigenetic mechanisms.
41. California Society of Industrial Medicine and Surgery (CSIMS). CSIMS 31st Annual Mid-Summer Seminar. Paradise Point Resort and Spa, San Diego, CA. June 16-18, 2016. Specialty Specific Breakout Session: Internal Medicine. In

small groups, the audience analyzes case studies discussing the intricacies and pitfalls of each one, from both a treating and forensic perspective. Each group will then bring back the results of their analysis to the entire group.

42. California Society of Industrial Medicine and Surgery (CSIMS). CSIMS 32st Annual Mid-Summer Seminar. Resort at Squaw Creek, Olympic Valley, CA. June 8-10, 2017. Moderator for Session 3: Apportionment (Through use of case studies, and court findings, Dr. Brautbar and Judge Correio will present the details and critical nuances of proper assessment and reporting of apportionment of disability.). Moderator for Session 4: Accuracy Defined (Dr. Brautbar and Judge Correio continue their presentation, focusing now on the approaches, techniques and tools available to evaluators in order to correctly and accurately describe impairment pursuant to court opinions and the content of the AMA Guides itself.). Panelist for Specialty Specific Breakout Session 7: Internal Medicine (Panelists present case studies that require use of the critical evaluation skills presented during the morning sessions about apportionment and accurate reporting of disability. In addition to the didactic presentation, utilizing small group analysis of relevant case studies, breakout session attendees will discuss, develop and present findings of apportionment and disability to the larger group.).
43. Los Angeles Valley Applicants Attorneys Association (LAVAAA). LAVAAA meeting. October 12, 2017. Panelist on “Treating on a Lien”.
44. San Fernando Valley Bar Association (SFVBA). SFVBA Workers' Compensation Section: Commonly Forgotten Diagnoses. Monterey at Encino. April 18, 2018. Presentation: “Underdiagnosed and Overdiagnosed Medical Conditions.”
45. Latino Comp Bi-Monthly Educational Meeting. May 27, 2018. Presentation: “Commonly Forgotten Diagnoses.”
46. California Society of Industrial Medicine and Surgery (CSIMS). CSIMS 33rd Annual Mid-Summer Seminar. Westin Long Beach, Long Beach, CA. June 14-16, 2018. Moderator for session, “Recent Developments in Apportionment.” Dr. Nachman Brautbar moderates a Point-Counterpoint discussion between Attorneys Ray Correio and Robert Rassp about the most controversial subject in the workers’ compensation system. Specialty-Specific Applications of Apportionment via Depositions: Internal Medicine. Nachman Brautbar, MD, Sy Levine, MD, Prakash Jay, MD, Saul Allweiss, Esq, Robert Rassp, Esq. A mock depo, focused on apportionment, leads off each breakout. A post-mortem group discussion follows the depo. Who won, who lost, what went right and what went wrong? The second half includes presentation of two case studies and small group discussions highlighting application of the lessons learned from the mock deposition.
47. San Fernando Valley Bar Association (SFVBA). SFVBA Workers' Compensation Section. November 21, 2019. Presentation: “A Clinical Discussion on Cannabis and Alcohol.”

48. Floyd Skeren Manukian Langevin, LLP. Updated COVID-19 Information for Employers, HR Administrators, Risk Managers and Claims Adjusters. Webinar. September 11, 2020. Special Guest Speaker. Presentation: "COVID 19: Pending Legislations and Important Information For Attorneys, Employers, HR Administrators, Risk Managers And Claims Adjusters."
49. Southern California Applicants' Attorneys Association (SCAAA). Marina Board and COVID-19 Law Updates. October 27, 2020. Presentation: "COVID-19 Case Practice."
50. Floyd Skeren Manukian Langevin, LLP. Virtual HR and Employment Law Conference. Webinar. December 11, 2020. Special Guest Speaker. Presentation: "Dealing With California COVID-19 Claims."