

CURRICULUM VITAE

Name: Shimon SLAVIN, M.D.

Date & Place of Birth: 17 May 1941, Tel Aviv, Israel

Marital Status: Married, with 3 children

Military Service:

1967-69 Major, Doctor of the Frogmen Unit, Medical Corps of the Israel Navy Honorable Discharge.

Education and Training:

- 1959-66: Doctor of Medicine (MD), Hadassah-Hebrew University Medical School, Jerusalem (License no. 8909).
- 1970-75: Internal Medicine. Major Interest: Clinical Immunology, Internal Medicine A, Hadassah University Hospital, Jerusalem.
- 1975: Experimental Immunology, Department of Immunology, Hadassah University Medical School, Jerusalem.
- 1975-78: Clinical Immunology/Rheumatology and Experimental Transplantation/ Immunobiology. Division of Immunology, Department of Medicine, University School of Medicine, Stanford, California, USA.
- 1978: Clinical Bone Marrow Transplantation. Bone Marrow Transplantation, Fred Hutchinson Cancer Research Center, University of Seattle, Washington, USA.

Specialization & Licenses:

- 1975: Internal Medicine (Hadassah University Hospital, Jerusalem) (License no. 5196).
- 1977: Clinical Immunology/Rheumatology (Stanford University Medical Center, Stanford California, USA) (fully active MD liscence available from the Medical Board of California; Physician & Surgeon Certificate #31844). 1978: Clinical Bone Marrow Transplantation (Fred Hutchinson Cancer Center, Seattle, Washington, USA).
- 1984: Clinical Immunology & Allergy (Hadassah University Hospital) (License. 8046).
- 2004: Illinois License No. 036-111873, Issued: 07/15/2004 Expires: 07/31/2005.

Academic Titles:

- 1972: Instructor in Medicine
- 1974: Lecturer in Medicine
- 1978: Senior Lecturer
- 1979: Associate Professor of Medicine
- 1987: Professor of Medicine
- 1994: National Academy of Medicine Honorary Member, Argentina

Visiting Professorship:

- 1979: Visiting Professor, University of Minnesota
- 1980,'81: Visiting Professor, University of Texas
- 1983: Visiting Professor, University of Singapore
- 1984: Visiting Professor, Duran Hospital & Buenos Aires Municipality
- 1991: Visiting Professor, Royal Perth Hospital, Australia

Appointments:

1981-85:

Head, Bone Marrow Transplantation & Cryopreservation Unit and Immunobiology Research Laboratory, Department of Medicine A, University Hospital, Jerusalem

1981-2007:

Head, Animal Research Facility, Hadassah University Hospital, Jerusalem

1985-2007

Professor and Chairman, Department of Bone Marrow Transplantation & Cancer Immunotherapy (Israel's National Bone Marrow Transplantation Center); Director, Cell Therapy & Transplantation Research Center, Hadassah University Hospital, Jerusalem

1994-2007:

Director, Baxter-Hadassah Research Center

1999-2007:

Director, The Danny Cunniff Leukemia Research Laboratory

2001-2008:

Medical Director of Cancer Immunotherapy, Cancer Treatment Centers of America (CTCA)

2006 – present:

President, Israel's Society of Bone Marrow Transplantation

2007:

Medical & Scientific director of the International Center for Cell Therapy & Cancer (ICTC) in Tel Aviv

Academic Awards:

- 1975: Fulbright Hays Scholarship
- 1975: Fogarty's International Fellowship Award
- 1977: American Physicians Fellowship Award

- 1977: Foundation for the Advancement of Humanity Award
- 1979: Faculty of Medicine Award for Outstanding Research
- 1980: US Department of Health and Human Services: National Diabetes Advisory Board-Current Status and Future Directions
- 1983: Israel Academy of Sciences and Humanities-Science Council of Singapore and Yad Hanadiv Award for Establishing a Bone Marrow Transplantation Center in Singapore
- 1983,'84: Segal Medical Research Award for Cancer Research
- 1986: Career Development Award, Israel Cancer Research Fund
- 1988: Honorary Member of the Peru Society of Cancer
- 1989: First International Wexner Foundation Research Award
- 1991: First John Knott Research Award of Cancer Fdn. of Western Australia
- 1992: Samuel & Paula Elkeles Annual Award for Excellence in Medical Research, Keren Kayemet LeIsrae l/ Israel Ministry of Health
- 1994: Honorary Member of the Academia Nacional de Medicina de Buneos Aires - (Miembro Honorario Extranjero, Argentina)
- 1994: Recipient of the Batthyany-Strattmann Laszlo Award from the Minister of Welfare, Budapest (Hungary)
- 1994: Recipient of the Laszlo Batthyany-Strattmann memorial ring presented by the President of the Batthyany Society, Budapest, Hungary
- 1994: Honorary Member of the Society of Hematology in Rosario, Argentina
- 1994: Honorary Member Citizenship of Rosario, Argentina
- 1995: Honorary Member of the Hungarian Society of Hematology
- 1998: The Stockton prize for 1998 for the best oral presentation (European Group for Blood and Marrow Transplantation, Courmeyer, Italy, March 1998)
- 2001: The Cancer Treatment Centers of America award: Cancer Super Heroes 2001.
- 2002: The International Artists Conclave. Award given jointly to Shimon Slavin & Gita Sherover for their heroic life's contributions through culture & science. Jerusalem, Israel.

Special Awards:

- 2001: The Cancer Treatment Centers of America award: Cancer Super Heroes 2001.
- 2002: The Major of Jerusalem & The International Artists Conclave. Award given jointly to Shimon Slavin & Gita Sherover for their heroic life's contributions through culture & science. Jerusalem, Israel.

Memberships:

- Israel Medical Society
- Israel Immunology Society
- Israel Association for Liver Study
- Israel Society for Allergy and Clinical Immunology
- American Society of Hematology
- American Immunological Society
- International Transplantation Society

International Society for Experimental Hematology
American Rheumatism Association
American Federation for Clinical Research
International Gnotobiotic Society
New York Academy of Sciences
European Cooperative Group for Bone Marrow Transplantation
Society for Biological Therapy
European Haematology Association
American Diabetes Association
American Society of Clinical Oncology (ASCO)
American Society for Blood and Marrow Transplantation (ASBMT)
Israel Stem Cell Society (ISCS)

Editorial Board:

Bone Marrow Transplantation
Experimental Hematology
Transplant International
International Journal of Oncology; Editorial Academy
International Society for Hematotherapy & Graft Engineering
Hellenic Society of Haematology
Hematologia, Citocinas, Immunoterapia Y Terapia Celular
Indian Journal of Hematology & Blood Transfusion
Graft; Journal of Organ & Cell Transplantation
Biology of Blood and Marrow Transplantation (BBMT)
American Society of Blood Transplantation (ASBMT)
Stem Cells and Development
Cytokines, Cellular & Molecular Therapy
Journal of Molecular & Cellular Pathology
Turkish Journal of Medical Sciences
Journal of Cellular & Molecular Medicine (JCMM)
Transplantation & Immunotherapy Updates
Cancer Immunology & Immunotherapy
Society for Biomedical Diabetes Research
American Journal of Immunology
European Society for Cancer Immunology and Immunotherapy
Journal of Clinical Rehabilitative Tissue Engineering Research
The Open Immunology Journal

International Appointments, Committees and Associations:

Board of Directors, Israel Cancer Association
Scientific Advisory Committee, International Bone Marrow Transplantation Registry
Chairman, Association for the Advancement of Cancer Therapy and Transplantation Medicine
International Association of Hematologists of the World for Children, Moscow, Russia
Founding Member, European Working Group on Human Gene Transfer and Therapy
Scientific Advisor Cancer Research Foundation (FUNDIC), Buenos Aires, Argentina

Executive Board Member, International Bone Marrow Transplantation Registry
Medical Director of Immunotherapy at the Cancer Treatment Centers of America (CTCA)
Chairman Steering Committee: Future Somatic Cell Therapy, Hadassah University Hospital
Steering Committee: Future Developments in Science & Technology, Ministry of Science & Technology of the State of Israel
Advisory Board Nono Bio Pharma Ltd. (NBP)
Director, ChondroSite
Scientific Director, MediFreeze
Chairman, Israel Society for Bone Marrow Transplantation
Member of The Immunotherapy and Dendritic Cells Committee of the International Society for Cellular Therapy (ISCT)
Scientific Advisory Board Northwest Biotherapeutics

Research Training and Experience:

1957-58

General Zoology and Preparation of antisera to venomous animals. Department of Zoology, Hebrew University

1967-69

Hyperbaric Medicine. Israel Navy and British Royal Naval Physiological Laboratories, Portsmouth, England

1970-75

Immunological aspects of liver disorders. Dept of Experimental Medicine Cancer Research, Hadassah-Hebrew University School of Medicine clinical & experimental investigations in autoimmune disorders; cell surface DNA receptors, radioimmunoassays to DNA and anti-DNA antibodies in systemic lupus erythematosus; lymphocyte subpopulation in autoimmune disorders department of immunology, Hadassah-Hebrew University School of Medicine; Department of Medicine, Hadassah University Hospital

1975-78

Discovery and Characterization of the first animal model of chronic B lymphocyte leukemia (BCL1); Development of new therapeutic strategies for cancer immunotherapy using the BCL1 as a preclinical animal model of lymphocytic leukemia/lymphoma.

Development of a New conditioning for bone marrow and organ transplantation utilizing fractionated total lymphoid irradiation (TLI) based on development of new approaches for induction of specific transplantation tolerance of host-vs-graft and graft-vs-host responses based on induction of mixed chimerism. Studies on the mechanism of tolerance to alloantigens, focusing on transplantation tolerance to bone marrow and organ allografts and self antigens in autoimmune diseases: Division of Immunology, Department of Medicine, Stanford University School of Medicine; Palo Alto, California, USA.

1978-79

Training in clinical and experimental bone marrow transplantation at the Bone Marrow

Transplantation Unit, Fred Hutchinson Cancer Research Center, University of Washington, Seattle, Washington, USA.

1979-80

Clinical and Experimental Organ (Kidney and Pancreas) Transplantation at the Department of Surgery, University of Minnesota, Minneapolis, USA; Experimental pancreas and islet transplantation for treatment of type I diabetes mellitus: Departments of Surgery and Pathology, Washington University School of Medicine, St Louis, Missouri, USA.

1981-2007:

Establishment of the Department of Bone Marrow Transplantation & Cancer Immunotherapy; Israel's National Bone Marrow Transplantation Center and the Cell Therapy & Transplantation Research Laboratory focusing on combining basic science and experimental medicine towards development of new therapeutic strategies for regulation of immunohematopoietic system aiming for: [1] Up-regulation of the immune system for immunotherapy of cancer by cytokines, adoptive allogeneic cell therapy focusing on activated and targeted donor lymphocytes; [2] Down-regulation of the immune system focusing on new approaches for induction of self tolerance and tolerance to alloantigens for prevention of rejection and graft-versus-host disease (GVHD) and for induction of transplantation tolerance for organ allografts; [3] Development of new approaches for safer and more effective stem cell transplantation, focusing on non-myeloablative conditioning for the treatment of cancer, genetic and autoimmune diseases; [4] new approaches for cancer immunotherapy focusing on cell therapy, vaccine therapy and using targeted anti-cancer agents (small molecules; targeted intentionally mismatched killer cells and cancer-seeking viruses).

More recently, the research laboratory was engaged in exploiting the use of bone marrow stem cells in the context of stem cells plasticity and tissue repair. We have introduced the use of mixtures of bone marrow cells and demineralized bone matrix, when indicated together with new reverse thermal gelation polymers for induction of new bone and cartilage formation for orthopedic, neurosurgical and dental transplantation indications. In parallel, we have introduced new methods for stem cell transplantation directly into the intra-osseous space and induction of donor derived bone marrow microenvironment. This approach will provide an option for safer and more effective transplantation of stem cells for elderly and high risk patients, especially those with diseases associated with abnormal bone marrow microenvironment, such as myelofibrosis. Preliminary experimental data suggest that these new approaches may also facilitate induction of mixed chimerism and transplantation tolerance.

In an attempt to discover more effective and safer approaches for control of self-reactivity for treatment of autoimmune diseases and alloreactivity for control of rejection and GVHD, new families of molecules developed by chemists working in our laboratory are currently under investigation, aiming for induction of antigen-specific unresponsiveness by small molecules. In parallel, we are now synthesizing new small molecules for control of cancer cells, focusing on tyrosine kinase and other signal transduction signal inhibitors on the one hand, and agents like ceramide and sphingolipid analogues for induction of apoptosis, on the other (patents pending and new applications in progress).

Starting in 2007:

Continuation of applied research in cancer treatment and regenerative medicine and clinical application of innovative medical procedures involving the use of cell therapy for the treatment of malignant and non-malignant disorders, including regenerative medicine with stem cells products at the ICTC in Tel Aviv.