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CURRICULUM VITAE

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Education:

1967-1974 Technical University (RWTH), Aachen, West Germany, Physics and Biophysics

1974 M.Sc. – Biophysics, Thesis: Optical properties of excitable membranes

1974-1977 Nuclear Research Center (KFA), Juelich, West Germany. Cell Biology, membrane biophysics

1977 Ph.D. (Dr. rer. nat.) Thesis: *Pressure- and volume-regulation by water- and ion-fluxes in **Valonia utricularis***

Military Service:

1982 Israeli Defense Forces

Positions Held:

1977	Postdoctoral Fellow - Weizmann Institute of Science, Dept. of Membrane Research, Rehovoth, Israel.
1978-1979	Minerva Fellow - Weizmann Institute of Science, Dept. of Membrane Research, Rehovoth, Israel.
1980-1981	Ministry of Immigration and Absorption Fellow - Weizmann Inst. of Science, Dept. of Membrane Research, Rehovoth, Israel
1981-1984	Staff Member (Scientist) - Weizmann Institute of Science, Dept. of Membrane Research, Rehovoth, Israel.
1983-1984	Visiting Associate, Laboratory of Cell Biology and Genetics, NIADDK, National Institutes of Health, Bethesda, MD.
1985-1988	Visiting Scientist, Laboratory of Cell Biology and Genetics, NIDDK, National Institutes of Health, Bethesda, MD.
1988-1999	Director, Laboratory of Cell Biology, Department of Medicine, University of Wisconsin, Milwaukee Clinical Campus, Milwaukee, WI
1999-2000	Director, Laboratory of Cell Biology, Department of Medicine, University of Wisconsin, Madison, WI
2000-date	Director, Laboratory of Cellular Tissue Engineering, Drexel University, Philadelphia, PA
2007-date	Direct, Surgical Engineering Enterprises, Drexel University College of Medicine

Faculty Appointments:

July 1, 1988	Associate Professor of Medicine, University of Wisconsin Medical School, Milwaukee Clinical Campus, Milwaukee, WI
Jan. 1, 1990	Adjunct Associate Professor of Cell Biology, Department of Biology, Marquette University, Milwaukee, WI
July 1, 1991	Associate Professor of Medicine, University of Wisconsin Medical School, Madison, WI
July 1, 1993	Professor of Medicine, University of Wisconsin Medical School, Madison, WI
July 1, 1994	Adjunct Professor of Cell Biology, Department of Biology, Marquette University, Milwaukee, WI
Sept.1, 2000	Calhoun Chair Professor of Cellular Tissue Engineering, Drexel University, Philadelphia
	Professor of Mechanical Engineering and Mechanics, Drexel University College of Engineering
	Professor of Biochemistry and Molecular Biology, Drexel University College of Medicine
	Professor of Pathology and Laboratory Medicine, Drexel University College of Medicine
	Professor of Surgery, Drexel University College of Medicine

Awards:

1968	Studienstiftung des Deutschen Volkes (German Federal University Scholarship)
1978	Minerva Fellowship
1982	EMBO Visiting Fellowship
1983-1988	Fogarty Visiting Associate/Scientist Fellowship at NIH
1992 NATO	Visiting Fellowship
1994 NATO	Visiting Fellowship
1997-1998	Lady Davis Visiting Professorship, Hebrew University, Jerusalem
2003-2007	Stein Family Fellowship, Drexel University
2004	Honorary Professor, Changchun Institute of Polymer Chemistry and Physics, Chinese Academy of Sciences
2005	Honorary Professor, University of Applied Sciences Aachen, Germany
2008	Outstanding Research Scholarship Faculty Award, Drexel University
2008	Outstanding Teach Faculty Award, School Of Biomedical Engineering, Science and Health Systems

Professional Societies:

- 1) International Society for Applied Cardiovascular Biology (ISACB),
(1995-2000, Member of the ISACB Executive Council)
- 2) North American Vascular Biology Organization (NAVBO)
- 3) International Tissue Engineering and Regenerative Medicine Society (TERMIS)
- 4) International Federation of Engineering in Medicine and Biology
(IFMBE, Member Steering Committee Working Group on Cellular Engineering)

Service on Institutional Committees:

1988 - 1999	Executive Faculty Committee, UW Med. School, Milwaukee Clinical Campus
1988 - 1999	Promotion Committee, UW Med. School, Milwaukee Clinical Campus
1991 - 2000	Executive Faculty Committee, UW Med. School, Madison
1993 - 1996	Research Committee, UW Med. School, Madison
2001 - 2005	Drexel University Faculty Senate, Steering Committee
2003 - 2005	Drexel University Tenure Appeals Committee
2005	Member of Dean Güçeri's 5 Year Review Committee
2005	Chair of Director Onaral's 5 Year Review Committee
2006- 2009	Drexel University Tenure Appeals Committee
2009-2012	Co-Chair Drexel University Middle States Workgroup on Mission and Goals

Review panels or committees

NIH Health Reviewers Reserve	AHA - Wisconsin - peer review committee
AHA Midwestern Consortium	Ad hoc reviewer for NSF, BSF, NIH, US Army
Member, NIH Special Emphasis Panel/Scientific Review Group ZRG1 F05-J	
American Institute for Biological Sciences	
Chair, Review Panel on Bone-related Diseases	
Member, Review Panel on Osteoporosis	
Member, Boston CIMIT Review Panel	

Service on editorial boards

Journal of Cellular Biochemistry, Guest Editor (1990/1991).
 Endothelium (1992-2009)
 12/1995 -04/1999: Associate Editor for U.S.A,
 5/1999 – 12/31/2009: Editor-in-Chief
 In vitro Cell and Development Biology (1993 -1998)
 Biotechnology (1993 –1998)
 Angiogenesis (1998 – 2005)

Other professional activities

- 1990 Organizer, UCLA Symposium "The Endothelial Cell", Keystone, CO.
- 1991 Co-director, NATO-Advanced Study Institute "Angiogenesis", Porto Hydra,, Greece
- 1991 Organizer, American Society for Cell Biology Subgroup Meeting "Endothelial Cell Heterogeneity and Organ-specificity", Boston, MA.
- 1992 Organizer, American Society for Cell Biology Subgroup Meeting "Endothelial Cell Heterogeneity and Organ-specificity", Denver, CO.
- 1992 Steering Committee, Vascular Biology Interest Group, Milwaukee
- 1993 Co-director, NATO-Advanced Study Institute "Angiogenesis", Rhodes, Greece
- 1993 Organizer, American Society for Cell Biology Subgroup Meeting "Endothelial Cell Heterogeneity and Organ-specificity", Denver, CO.
- 1995 Co-director, NATO-Advanced Study Institute "Angiogenesis", Saloniki, Greece
- 1995 Member Executive Committee, International Society for Applied Cardiovascular Biology
- 1996 Organizer, Symposium "Biocompatible Cardiac Prostheses" at the 5th Biannual Meeting of the International Society for Applied Cardiovascular Biology, Manchester, U.K.
- 1996 Organizer, Symposium "Cell-Extracellular Matrix Interactions" at the World Conference for In Vitro Biology, San Francisco, CA.
- 1997 Co-Director, NATO-Advanced Study Institute "Angiogenesis", Rhodes, Greece
- 1998 Organizer, Keystone Symposium "Angiogenesis", Keystone, CO.
- 1998 Program Co-Chair, 6th Biannual Meeting, International Society for Applied Cardiovascular Biology, Wildbad Kreuth, Germany
- 1999 Co-Director, NATO-Advanced Study Institute "Angiogenesis", Crete, Greece
- 2001 Co-Director, NATO-Advanced Study Institute "Angiogenesis", Crete, Greece
- 2001 Team Leader, Nanotechnology Tissue Engineering Initiative
- 2002 Organizer, Symposium Vascular Tissue Engineering, WC2003, Sydney Australia
- 2003 Organizer, Symposium Cellular Mechanoactivation, 6th ICCE, Sydney Australia
- 2004 Co-Chair, Program Committee, BMES 2004, Philadelphia, PA
- 2005 Member Organizing Committee, 7th ICCE, Seoul, South Korea
- 2006 Member Organizing Committee, WC2006, Seoul, South Korea
- 2007 Member Organizing Committee International TERMIS Meetings London

Peer Review Panels :

National Institutes of Health	Israel - U.S. Binational Science Foundation
National Science Foundation	Israel - German (Minerva) Research Foundation
American Institute of Biological Sciences	

Peer Reviewer for Professional Journals :

American J Pathology	American J Respiratory Cell Molec Biology
American J Physiology	ASAIO J
Biochimica et Biophysica Acta	Biology of Reproduction
Biomaterials	Cell
Circulation	Endothelium
J Biomaterial Science	J Cellular Biochemistry
Tissue Engineering	Microvascular Research