

CURRICULUM VITAE

EYTAN DOMANY
The Henry J. Leir Professorial Chair

ADDRESS

Department of Physics of Complex Systems,
 The Weizmann Institute of Science,
 Rehovot, Israel.

Date and Place of Birth	May 21, 1947, Budapest, Hungary
Marital Status:	Married, two children
Citizenship:	Israeli

EDUCATION

January 1977:	Ph.D. Theoretical Physics, Cornell University
1972:	M.Sc. Theoretical Physics, Weizmann Institute of Science
1968:	B.Sc. Physics, Tel-Aviv University

EMPLOYMENT

2003 -	Head, The Kahn Family Center for Systems Biology of the Human Cell, WIS
1999 – 2001:	Chairman, Council of Professors, WIS
1993 - 1999:	Head, Dept. of Physics of Complex Systems, WIS
1990 - 1991:	Visiting Professor, Oxford University.
1986 -	Professor, Weizmann Institute of Science.
1983 - 1984:	Visiting Scholar, Stanford University.
1982 - 1986:	Associate Professor, Weizmann Institute of Science.
1979 - 1982:	Senior Scientist, Weizmann Institute of Science.
1978 - 1979:	Research Assistant Professor, University of Washington.
1977 - 1978:	Research Associate, University of Washington.
1974 - 1976:	Research Assistant, Cornell University.
1973 - 1974:	Teaching Assistant, Cornell University.
1971 - 1973:	Physicist, Nuclear Research Center Negev.
1971 - 1973:	Teaching Assistant, Ben Gurion University.
1968 - 1971:	Military Service

SHORT TERM APPOINTMENTS:

Summer 1980 :	Visiting Professor, University of Copenhagen.
Summers 1979-82,1984,87,89:	Laboratory Consultant, Los Alamos Scientific Lab
Summer 1985 :	Visiting Physicist, Brookhaven National Lab
Summer 1986 :	Summer Faculty, IBM Yorktown Research Lab
Summer 1987 :	Visiting Research Physicist, ITP, UC Santa Barbara
Summer 1988 :	Visiting Scientist, IHES, Bures-sur-Yvette.
Summer 1989 :	Visiting Professor, Universite Paris VII.
Summer 1991 :	Visiting Professor, University of Rochester.
Spring 1995 :	Visiting Professor, Hong Kong University of Science and Technology.
Fall 1996 :	Visiting Professor, Ecole Normale Superieure, Paris
Spring 2001:	Visiting Scholar, ITP, UC Santa Barbara
Summer 2002:	Visiting Professor, University of Copenhagen
Winter 2003:	Rotschild-Mayent Fellow, Inst. Curie, Paris

FELLOWSHIPS

Dr. C. Weizmann Post Doctoral Fellow, September 1977-79.
Bat-Sheva de Rothschild Fellow, 1982.

PRIZES

RAD-Biomed Biotechnology Prize (jointly with I.R. Cohen), 2005
Henry J. Leir Professorial Chair, 1999.
Levinson prize, 1986.
A. Dissentshik Career Development Chair, 1981.
Lubell prize, 1981.

RESEARCH GRANTS

During June 1, 1977 - Sept. 30, 1983 continuously received grants to perform studies of ultrasonic scattering by defects from the ARPA-AFML Interdisciplinary Program for Quantitative Flaw Definition.

For the period July 1, 1980-82, received a grant from the US-Israel Binational Science Foundation, to perform studies of Critical Phenomena in Two Dimensions.

For Oct 1, 1984-87, Israel Academy of Sciences and Humanities.

For July 1, 1985-87, US-Israel Binational Science Foundation, grant to study Static and Dynamic Critical Phenomena.

For July 1987-1990, US-Israel Binational Science Foundation, grant to study Dynamics of Hierarchical Systems and Spin Models.

For Oct 1991-94, US-Israel Binational Science Foundation, grant to study Methods for Simulation of Models with Frustration.

For Jan. 1993-96, German-Israeli Foundation for Scientific Research and Development, grant to study New Multitechnique Approach to Disordered Systems.

For Jan. 1996-99, Minerva Foundation Grant, to study Protein Folding.

For Jan. 1997-99, German-Israeli Foundation for Scientific Research and Development, grant to study Novel Computational Approach to Disordered and Complex Systems.

For Oct. 1, 1997-1999, Ministry of Sciences, grant to study Application of Parallel Computing for Problems in Computational Physics: Protein Folding, Random Magnetic Systems.

For Jan. 1999-2002, Minerva Foundation Grant, to study Protein Folding.

For Sept. 1998-2001, U.S. - Israel Binational Science Foundation, grant to study Protein Folding.

For Jan. 2001-2004, German-Israeli Foundation for Scientific Research and Development, grant to study Statistical Physics of Random Structures with Applications to Life and Material Sciences.

For Oct. 2001 - Sept. 2003, Israel Science Foundation, grant to study Coupled Two-Way Clustering Analysis of Data: Applications to Biology, Physics and Protein Science.

For May 2002 - April 2003, The Ridgefield Foundation, grant to study DNA-chip data from colon cancer experiments.

For Oct. 2002 - Sept. 2006, NIH NCI Program Project Grant to study New Methods for Cancer Detection (with groups from Cornell, RW Johnson Medical School, Princeton, Memorial Sloan - Kettering and Rockefeller).

For Oct. 2002 - Sept. 2006, European Community Research Training Network grant: Statistical Information Processing and Combinatorial Optimization (STIPCO - one of 10 nodes)

For Jan. 2003 - Dec. 2005, Minerva Foundation: Coupled Two Way Clustering Analysis of Gene Expression Data, Spin Glasses and Document Classification.

For Feb. 2004 - Jan. 2009, European Commission 6th Framework Integrated Project: Mutant p53 as target for improved cancer treatment (member of a multi-group collaboration).

For Oct. 2003 - Sept. 2006, Bikura Grant from the Israel Academy of Sciences: A Novel Bioinformatics- based Strategy for Identifying Common Core Genes in Stem Cells, and their Role in Differentiation, Proliferation and Cancer. Jointly with Prof D. Givol (Weizmann) and Prof D. Gazit (Hadassah Medical School).

For Nov 2003 - Nov 2004, Joint Weizmann - Tel-Aviv Sourasky Medical Center Research Grant: Expression of Genes Involved in the Development of Metastases and Resistance to Radiotherapy of Prostate Cancer. Jointly with Prof Eshhar (Weizmann) and Dr Orr (TASMC).

For Dec. 2004 - Nov. 2007, Infrastructure Grant from the Israel Ministry of Science: Integrative Genomic Approach for Analysis of Cancer: Acute Lymphoblastic Leukemia as a Model. Jointly with Dr S. Izraeli (Sheba Medical Center).

For Nov 2005 - Oct 2009, Israel Science Foundation grant. Transcriptional regulation of TGFb-mediated cell development and function by Runx3. Jointly with Prof. Y. Groner.

For March 2005 – Feb 2007, Wolfson Foundation, Tumor Diversity Project, jointly with 7 other groups at Weizmann and two Groups from the Sheba and Sourasky Medical Centers.

CONFERENCES, MEETINGS and SCHOOLS (after 1991)

(invited talks and lectures, unless otherwise specified)

Grain Growth and Thin Film Intl. Workshop, Dead Sea, January 92
Neural Networks, Les Houches, March 92
Neural Networks for Computing (Contributed paper), Snowbird, April 92
12h Conference on Nonlinearity in Material Science, Los Alamos, May 92
Central-European School of Theoretical Physics, Budapest, September 92
Workshop on Statistical Physics, IHES, Paris, February 93
Mecanique Statistique, Ecole de Physique, Beg Rohu, May 93
Weizmann-Bordeaux Meeting, Bordeaux, July 93
Order-Disorder Transitions, 2nd Intl. Conference, Taipei, August 93
Neurophysiology and Neuroinformatics, Gentner Symp., Schellerhau, Oct. 93
Neural Networks for Computing (contributed paper), Snowbird, April 94
Cellular Automata, Aggregation, Growth, Newton Inst., Cambridge, June 94
17th Brazilian Meeting on Cond. Matt. Physics, Caxambu, June 94
Statistical Methods in Space-Time Chaos, Prato, October 94
Space Filling Problems, Les Houches, January 95
IUPAP Stallite Meeting on Complex Fluids, Hong Kong, July 95
STATPHYS 19 (contributed paper), Xiamen, August 95
First Middle Eastern Physics Meeting (no paper presented), Dahab, Nov. 95
Protein Structure and Function, Trieste, March 96
Machines that Learn, Snowbird, April 96
Workshop on Dynamics of Non-Equilibrium Systems, Trieste, August 96
The 24th Aharon Katzir Conference (contributed poster), Jerusalem, November 96
Multiscale Phenomena Workshop, Eilat, March 97
Minerva Workshop, Eilat, March 97
Vth International Bar Ilan Conference, Ramat Gan, April 97
DIMACS Workshop on Combinatorial Optimization and Disordered Materials, Rutgers University, May 97
Choh Memorial International Conference on Statistical Physics, Seoul, June 97
Monte Carlo Approach to Biopolymers and Protein Folding, Julich, December 97
Middle European Cooperation in Statistical Physics 23, Trieste, April 98
Euroconference on Protein Folding and Structure Prediction, Torino, June 98
STATPHYS 20, Paris, July 1998
CCP 1998 Euroconference on Computational Physics, Granada, September 1998
Interfaces Between Statistical Physics and Computer Science, Torino, October 1998
Theoretical Approaches to Biological and Soft Systems, IV Itzykson meeting, Saclay, June 1999
Dynamic Days Asia-Pacific, Hong Kong, July 1999
Neural Computation for Science and Technology, Ma'ale Hahamisha, October 1999
Middle Europ. Coop. in Statistical Physics (MECO25), Nancy, March 2000
Condensed Matter Division of the European Physical Society (CMD18), Montreux, March 2000
Multiscale Computation Workshop, Eilat, April 2000

Protein folding: simple models and experiments, Torino, April 2000
New Trends in Statistical Mechanics (honoring Joel Lebowitz), Siena, May 2000
Dynamics of Non-Equilibrium Systems, V Itzykson meeting, Saclay, June 2000
Marian Smoluchowski Meeting on Statistical Physics, Zakopane, September 2000
Program on Statistical Physics and Biological Information, ITP
Santa Barbara, Jan 2001 - March 2001
DNA Microarrays Symposium, Lausanne, February 2001
Frontiers in the Physics of Complex Systems, Dead Sea, March 2001
Patterns - Trends- Predictions, Delray Beach, May 2001
Protein Folding, Structure and Design, Trieste, June 2001
STATPHYS 21, Cancun, July 2001 (contributed talk)
Modelling Bio-medical signals, Bari, Sept 2001
STATPHYS - Kolkata IV, Kolkata, Jan 2002
Dynamics of Networks & Spatially Extended Systems, Kolkata, Jan 2002
Statistical Physics - Netherlands, Lunteren, Jan 2002
Federation of Israel Soc. for Expt. Biology - Eilat Feb 2002
Middle Europ. Coop. in Statistical Physics (MECO27), Sopron, March 2002
Genes and Physics, VII Claude-Itzykson-Meeting, Saclay, June 2002
Inst. Nat. Fis. Mat. Annual Meeting, Bari, July 2002
Biological Physics Summer School, Krogerup, Aug 2002
APS Division on Computational Physics Annual Meeting, San Diego, Aug 2002
TheoChem 2002 Theoretical Chemistry Meeting, Jerusalem, Oct 2002
Federation of European Biochemical Societies - FEBS 28, Istanbul, Oct 2002
Exystence Workshop, Torino, Nov 2002
StADyBis Conference, Firenze, Feb. 2003
Program on Bio - Molecular Networks, ITP Santa Barbara, Feb. 2003
Metropolis Method 50th anniversary meeting, Los Alamos, Jun 2003
Complexity and Criticality, Copenhagen, Aug 2003
Transport and Magnetism, Eilat, Jan 2004
Statistical Physics of Molecular and Cell Biological Systems and Networks, Heidelberg,
April 2004
Soft Matter, Biology and Statistical Physics, Les Houches April 2004
XXVII Encontro Nacional de Fisica da Materia Condensada, Possos de Caldas, Brasil May
2004
Europhysics Conference on Computational Physics, Genova, Sept 2004
School and Conference on Fundamental Aspects of Complexity, Trieste Sept 2004
In Silico Oncology: Advances and Challenges, Sparta Sept 2004
First Latin-American School and Conference on Statistical Physics and Interdisciplinary
Applications, Havana, March 2005
Workshop on Collective Dynamics of Living Systems, Leiden, May 2005
Application of Random Matrices to Economy and Other Complex Systems, Krakow, May 2005
Genopole Training Course: From functional genomics to molecular networks and back, Evry,
June 2005
FEBS Practical & Lecture Course: Modern Approach in Genome Analysis for Medical
Application, Riga, June 2005
eIMBL Workshop, Seoul, Korea, July 2005

Theoretical Physics Methods in Quantitative Biology and Medicine, Bari, Sept 2005
Physics-based approaches to Immunology and Gene Expression Analysis, Brasilia, Oct 2005
DIMACS Workshop on Clustering Problems in Biological Networks, Piscataway May 2006
Understanding Complex Systems, Urbana May 2006
International Federations of Classification Societies Annual Meeting, Ljubljana July 2006
Spanish Statistical Physics Meeting FisEs2006 Granada, Sept 2006
Workshop on Statistical Mechanics and Field Theory SMFT06, Bari, Sept 2006
Advances in Microarray Technology Amsterdam Nov 2006

SUPERVISED THESES

M. Sc.:

V. Mizrahi (1981); Y. Stavans (1982); M. Yosefin (1984); Y. Shapira (1985)
D. Auerbach(1986); D. Kutasov (1986); H. Shouval (1990); D. Nabutovsky (1990)
S. Wiseman (1993); A. Handzel (1993); O. Megged (1993); A. Priel (1993)
L. Mirny (1994); M. Kovalenko (1996); Y. Cohen (1996); G. Getz (TAU 1998)
E. Levine (2000); G. Hed (2001); D. Mirzayof (2001);
I. Kela (jointly with D. Givol, 2001); H. Gal (jointly with D. Givol, 2003)
O. Ravid (2003), L. Hertzberg, (2003), O. Barad (2003); U. Einav, (2003)
M. Mashiach, (jointly with D. Givol, 2004) H. Benyamin-Rodrig, (jointly with D. Lancet,
2004) G. Elitzur (jointly with I. Cohen, 2004); Y. Tabach (jointly with V. Rotter, 2004)
M. Sheffer (2005), S. Margel (2005), P. Polak (2006), G. Fuks (2006), D. Netanely (2006)

Currently supervised: S. Urbach, M. Koudritzky

Ph.D. :

S. Sarker (Cornell/Seattle, 1980)
R. Meir (1988)
D. Kandel (1991)
T. Grossman (1992)
B. Levitan(1997)
M. Blatt (1997)
S. Wiseman(1998)
G. Getz (2003)
D. Tsafirir (2006)

Currently supervised: O. Zuk, T. Shay, M. Sheffer
I. Kela (jointly with Z. Eshhar and A. Orr),
H. Gal (jointly with D. Givol and G. Rechavi),
L. Hertzberg (jointly with S. Izraeli)
Y. Tabach (jointly with V. Rotter)
M. Katzenellenbogen (jointly with D. Goldenberg and Eithan Galun)

Post-doctoral Fellows:

D. Blankschtein (1982), B. Schaub (1984), S. Teitel (1986), J. Kurchan (1990),
G. Schutz (1993), H. Hinrichsen (1997), M. Vendruscolo (1999), K. Park (2000)
D. Volk (2001), A. Kabakcioglu (2002), H. Agrawal (2003), I. Tsafirir (2004),
L. Ein-Dor (2004), N. Shental (2005), R. Brinzanik (2005), A. Reiner (2005), J. Axelsen
(2005)