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RESUME

Full Name: Dganit Danino

Personal status: Married + 4

CryoEM Laboratory of Soft Matter

Official website: <http://biotech.technion.ac.il/en/faculty/>

CryoEM center: <http://biotech.technion.ac.il/en/services-2/>

ACADEMIC DEGREES

1987 B.Sc. Chemical Engineering, Technion, Israel.

1990 M.Sc. Chemical Engineering, Technion, Israel.

1996 D.Sc. Chemical Engineering, Technion, Israel.

ACADEMIC APPOINTMENTS

2015- Professor, Faculty of Biotechnology and Food Engineering, Technion

2012-2013 Visiting Professor, Department of Chemical and Biological Engineering, David H. Koch Institute of Integrative Cancer Research, MIT (with Prof. Robert Langer)

2012-2013 Visiting Professor, School of Engineering and Applied Sciences, Physics Department, Harvard University (with Prof. Dave Weitz)

Feb. 2012 Visiting Professor, Technische Universität Berlin, Germany

2009-2015 Associate Professor, Faculty of Biotechnology and Food Engineering, Technion

Summer 2007 Visiting Professor, Physical Chemistry 1, Lund University, Sweden

Summer 2005 Visiting Professor, Laboratory of Physical and Structural Biology at the National Institute of Child Health and Human Development (NICHD), National Institute of Health (NIH), Bethesda, MD

2002-2009 Senior Lecturer, Faculty of Biotechnology and Food Engineering, Technion

2000-2002 Visiting Fellow. Laboratory of Cell Biochemistry and Biology, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institute of Health (NIH), Bethesda, MD

1998-2000 Research Associate. Manager of the Laboratory for Advanced Microscopy, Department of Chemical Engineering, Technion

1997-1998 Postdoctoral Fellow. Supervisors: Prof. Y. Cohen and Prof. Y. Talmon, Department of Chemical Engineering, Technion

RESEARCH INTERESTS

Application and development of cryoEM techniques

Soft matter self-assembly: mechanism, nanostructure, dynamics and properties

Development and characterization of delivery vehicles

Structure-function of large GTPases, and membrane-remodeling proteins

Biological and bioinspired 1-D structures

TEACHING EXPERIENCE

1987-1995 Teaching Assistant, Principals of Chemical Engineering, undergraduate

1990 Teaching Assistant, Interfacial Phenomena, graduate and undergraduate

2004 Physical Methods for Biomolecules Characterization, graduate and undergraduate. New Course

Restructuring the core engineering courses (fluid mechanics, heat transfer, mass transfer)

2003 - Fluid Mechanics, undergraduate

- 2004 - Structure and Properties of Foods and Biological Materials, undergraduate
- 2005 - Heat Transfer, undergraduate
- 2006 Mass Transfer, undergraduate
- 2010, 2011 Laboratory in Nanotechnology, graduate; Supervision

TECHNION ACTIVITIES

- 2007-2012 Coordinator of graduate studies of the interdisciplinary program for Nanotechnology and Nanosciences at the Technion
- 2009-2012 Member of the Technion computation committee
- 2010-2012 Member of the Technion Discipline Court
- 2010-2012 Member of the Technion VAADAT HAKEVA for undergraduate and graduate studies
- 2010-2012 Member of a subcommittee of VAADAT HAKEVA for new courses
- 2011- 2012 Chair of the Technion Discipline Court
- 2014- Chair of the Technion Discipline Court

DEPARTMENTAL ACTIVITIES

- 2002-2003 Secretary of the Faculty of Food Engineering and Biotechnology council
- 2003-2008 Faculty Safety Officer
- 2002-2007 Faculty website coordinator
- 2004-2009 Coordinator of the faculty activities in the Technion Open Days
- 2005 -2009 Liaison for visits and seminars for high-school students in the Faculty of Biotechnology and Food Engineering
- 2005-2012 Coordinator of student visits from overseas
- 2006 Coordinator of the faculty seminars
- 2009-2012 Liaison at the Technion computation committee
- 2009-2011 Member of the committee for recruitment of new faculty members
- 2009-2012 Coordinator of the faculty *Pizza and Biotech* meetings
- 2010-2011 Member of the faculty Vaada Mechina
- 2012 Coordinator of the faculty undergraduate studies
- Oct 2013- Coordinator of the faculty undergraduate studies

PUBLIC PROFESSIONAL ACTIVITIES

- 2004- Section Editor, Current Opinion in Colloid and Interface Science
- 2005- Committee Member, Israel Society of Microscopy (ISM)
- 2006-2011 Management Committee of the European Concerted Research Action COST D43, Colloid and Interface Chemistry for Nanotechnology
- 2009-2013 Chair of the Israel Society for Microscopy (ISM)
- 2011- Management Committee of the European Concerted Research Action COST CM1101, Colloidal Aspects of Nanoscience for Innovative Processes and Materials
- 2013- Member of the editorial board, Colloids and Surfaces B – Biointerfaces
- 2013- Editor, Colloids and Surfaces B – Biointerfaces
- 2014-2015 Guest Editor, Colloids and Surface A - Physicochemical and Engineering Aspects

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Israel Society for Microscopy (ISM)
- European Colloid and Interface Science Society (ECIS)
- European Microscopy Society (EMS)

American Chemical Society (ACS)
Microscopy Society of America (MSA)
American Physical Society (APS)

HONORS

1993	Excellence award from the Wolf Foundation, Israel
1994	Excellence award from the World Sephardi Federation, Jerusalem, Israel
1995	Teaching Assistant excellence award, Technion, Haifa, Israel
2000-2002	Postdoctoral Visiting Fellow award, National Institute of Health, Bethesda, MD, USA
2001	Best Presentation in General Biology, Chesapeake Society for Microscopy
2002	Fellows Award for Research Excellency (FARE), National Institute of Health, Bethesda, MD, USA
2003	Bessie and Louis Stein Foundation Research Award
2004	Bessie and Louis Stein Foundation Research Award
2003-2005	Annie and Charles Corrin Academic Lectureship, Technion, Israel
2010	Lectureship Award, the Division of Colloid and Interface Chemistry, the Chemical Society of Japan
2011	Excellence in teaching, top 15%
2012	Excellence in teaching, top 12%

PUBLICATIONS

Theses

- 1990 M.Sc. thesis, Kinetics of Capillary Penetration into Porous Media.
1996 Ph.D. thesis, Microstructural Studies of Self-Aggregation in Aqueous Complex Fluids.

Refereed papers in professional journals

Published papers:

1. **Danino D** and Marmur A. Radial Capillary Penetration into Paper: Limited and Unlimited Liquid Reservoirs, *J Colloid Interf Sci* **166**, 245-250 (1994).
2. **Danino D**, Talmon Y and Zana R. Alkanediyl - α, ω - Bis (Dimethylalkylammonium Bromide) Surfactants (Dimeric Surfactants): 5. Aggregation and Microstructure in Aqueous Solutions, *Langmuir* **11**, 1448-1456 (1995).
3. **Danino D**, Talmon Y, Levy H, Beinert G and Zana R. Branched Thread-Like Micelles in an Aqueous Solution of a Trimeric Surfactant, *Science* **269**, 1420-1421 (1995).
4. **Danino D**, Talmon Y and Zana R. Vesicle-to-Micelle Transformation in Systems Containing Dimeric Surfactants, *J Colloid Interf Sci* **185**, 84-93 (1997).
5. **Danino D**, Kaplun A, Lindblom G., Rilfors L, Orädd, G, Hauksson JB and Talmon Y. Cryo-TEM and NMR Studies of a Micelle-Forming Phosphoglucolipid from Membrane of *Acholeplasma laidlawii* A and B, *Chem Phys Lipids* **85**, 75-89 (1997).
6. **Danino D**, Talmon Y and Zana R. Aggregation and Microstructure in Aqueous Solutions of the Nonionic Surfactant C₁₂E₈, *J Colloid Interf Sci* **186**, 170-179 (1997).
7. Zana R, Lévy H, **Danino D**, Talmon Y and Kwetkat K. Mixed Micellization of Cetyltrimethylammonium Bromide and an Anionic Dimeric (Gemini) Surfactant in Aqueous Solution, *Langmuir* **13**, 402-408 (1997).
8. Jalsenjak N, Mesic M, Mihalic Z, Pavesic N, Pracaic S, Tezak D, Hoffmann H, Platz G, Peukert S, Ulbricht W, **Danino D** and Talmon Y. Lyotropic Liquid Crystalline Phases from Symmetric Double-Tailed Surfactants: Sodium 1'-(6)-Undecylbenzenesulfonate, 1'-(7)-Tridecylbenzenesulfonate, and 1'-(8)-Pentadecyl Benzenesulfonate in Water, *J Colloid*

- Interf Sci **208**, 129-136 (1998).
9. **Danino D**, Talmon Y, Carpenter II LE and Chen W. Cryogenic Temperature Transmission Electron Microscopy of Silicone in Isooctane, Polymer Abstracts ASC 215th National Meeting, 221, 1997.
 10. De Smet Y, **Danino D**, Deriemaeker L, Talmon Y and Finsy R. Ostwald Ripening in the Transient Regime: a Cryo-TEM Study, Langmuir **16**, 961-967 (2000).
 11. Konikoff F, **Danino D**, Weihs D, Rubin M and Talmon Y. Microstructural Evolution of Lipid Aggregates in Nucleating Model and Human Biles Visualized by Cryo-Transmission Electron Microscopy, Hepatology **31**, 261-268 (2000).
 12. **Danino D**, Talmon Y and Zana R. Cryo-TEM of Threadlike Micelles: On-the-Grid Microstructural Transformations induced during Specimen Preparation, Colloid Surface A **169**, 67-73 (2000).
 13. Oda R, Huc I, **Danino D** and Talmon Y. Aggregation Properties and Mixing Behavior of Hydrocarbon, Fluorocarbon and Hybrid Hydrocarbon-Fluorocarbon Dimeric Cationic Surfactants. Langmuir **16**, 9759-9769 (2000).
 14. Szebeni J, Alving C, Savay S, Barenholz C, Prieu A, **Danino D** and Talmon Y. Formation of Complement-Activating Particles in Aqueous Solutions of Taxol: Possible Role in Hypersensitivity Reactions, Int Immunopharmacol **1(4)**, 721-735 (2001).
 15. **Danino D**, Bernheim-Groswasser A, Talmon Y. Digital Cryogenic Transmission Electron Microscopy: an Advanced Tool for Direct Imaging of Complex Fluids, Colloid Surface A **183**, 113-122 (2001).
 16. Simberg D, **Danino D**, Talmon Y, Minsky A, Ferrari ME and Barenholz Y. DNA Ordering in Lipoplexes: Effect of Different Lipid Composition, J Biol Chem **276**, 47453-47459 (2001).
 17. **Danino D**, Gupta R J. Satyavolu J. and Talmon, Y. Direct Cryo-TEM Imaging of Phospholipid Aggregates in Soybean Oil, J Colloid Interf Sci **249**, 180-186 (2002).
 18. Kamyshny A, **Danino D**, Magdassi S and Talmon Y. Transmission Electron Microscopy at Cryogenic Temperatures and Dynamic Light Scattering Studies of Glucose Oxidase Molecules and Self-Aggregated Nanoparticle, Langmuir **18**, 3390-3391 (2002).
 19. Bittner O, Gal S, Pinchuk I, **Danino D**, Shinar H and Lichtenberg D. Copper-Induced Peroxidation of Liposomal Palmitoyllinoleoylphosphatidylcholine (PLPC), Effect of Antioxidants and its Dependence on the Oxidative Stress, Chem Phys Lipids **114(1)**, 81-98 (2002).
 20. Magdassi S, Ben Moshe M, Talmon Y and **Danino D**. Microemulsions Based on Anionic Gemini Surfactant Colloid Surface A **212**, 1-7 (2003).
 21. **Danino D**, Weihs D, Zana R, Orädd G, Lindblom G, Abe M and Talmon Y. Microstructures in the Aqueous Solutions of a Hybrid Anionic Fluorocarbon/Hydrocarbon Surfactant, J Colloid Interf Sci **259**, 382-390 (2003).
 22. Marszal E, **Danino D** and Shrake A. Polymerization of α_1 -Proteinase Inhibitor Disulfide-Linked Dimer: Implications for the Mechanism of Serpin Polymerization, J Biol Chem **278**, 19611-19618 (2003).
 23. **Danino D**, Moon KH and Hinshaw JE. Rapid Constriction of Lipid Bilayers by the Mechanochemical Enzyme Dynamin, J Struct Biol **147(3)** 259-267 (2004).
 24. González YI, Stjerdahl M, **Danino D** and Kaler EW. Spontaneous Vesicle Formation and Phase Behavior in Mixtures of an Anionic Surfactant with Imidazoline Compounds, Langmuir **20(17)** 7053-7063 (2004).
 25. Weihs D, **Danino D**, Pinazo-Gassol A, Perez L, Franses EI and Talmon Y. Self-Aggregation in Dimeric Arginine-Based Cationic Surfactants Solutions, Colloid Surface A **73-78** (2005).
 26. Liu S, González YI, **Danino D** and Kaler EW. Polymerization of Wormlike Micelles Induced by Hydrotropic Salt, Macromolecules **8(6)**, 2482-2491 (2005).

27. Weihs D, Schmidt S, Goldiner I, **Danino D**, Rubin R, Talmon Y and Konikoff FM, Biliary Cholesterol Crystallization Characterized by Single Crystal Cryogenic-Electron Diffraction, *J Lipid Res* **46**, 942-948 (2005).
28. Gudheti MV, Lee SP, **Danino D** and Wrenn SP. Combined Interaction of Phospholipase C and Apolipoprotein A-I with Small Unilamellar Lecithin-Cholesterol Vesicles: Influence of Apolipoprotein A-I Concentration and Vesicle Composition, *Biochemistry* **44(19)**, 7294-7304 (2005).
29. Hans M, Shimoni K, **Danino D** and Lowman T. Synthesize and Characterization of mPEG-PLA –Haloperidol Conjugate Micelles, *Biomacromolecules* **6(5)**, 2708-2717 (2005).
30. Efrat R, Aserin A, **Danino D**, Wachtel EJ and Garti N. Novel Discrete Micellar Cubic Phase Form Mixture of GMO/Ethanol/Water, *Aust J Chem* **58(11)**, 762-766 (2005).
31. Kostko AF, Bani Cipriano B, Pinchuk OA, Anisimov AM, Ziserman L, **Danino D** and Raghavan SR. Salt Effects on the Phase Behavior, Structure, and Rheology of Chromonic Liquid Crystals, *J Phys Chem B* **109(41)**, 19126-19133 (2005).
32. Portnaya I, Cogan U, Livney Y, Ramon O, Shimoni K, Rosenberg M and **Danino D**. Micellization of Bovine β -casein Studied by Isothermal Titration Microcalorimetry and Cryogenic-Transmission Electron Microscopy, *J Agr Food Chem* **54(15)**, 5555-5561 (2006).
33. Dan N, Shimoni K, Pata V and **Danino D**. Effect of Mixing on the Morphology of Cylindrical Micelles, *Langmuir* **22(24)**, 9860 – 9865 (2006).
34. Lutz R, Aserin A, Wachtel EJ, Ben-Shoshan E, **Danino D** and Garti N. A Study of the Emulsified Microemulsions by SAXS, Cryo-TEM, SD-NMR and Electrical Conductivity, *J Disper Sci Technol* **28(8)**, 1149-1157 (2007).
35. Efrat R, Aserin A, Kesselman E, **Danino D**, Wachtel EJ, and Garti N. Liquid Micellar Discontinuous Cubic Mesophase from Ternary Monoolein/Ethanol/Water Mixtures, *Colloid Surface A* **299**, 133-145 (2007).
36. Gvili K, Benny O, **Danino D** and Machluf M. Poly (D, L-lactide-co-glycolide acid) Nanoparticles for DNA Delivery: Waiving Preparation Complexity and Increasing Efficiency, *Biopolymers* **85(5-6)**, 379-391 (2007).
37. Amar-Yuli I, Wachtel EJ, Ben-Shoshan E, **Danino D** and Garti N. Relationship between Hexosomes and Hexagonal Phases - Mediated by Hydration and Polymeric Stabilizer, *Langmuir* **23(7)**, 3637-3645 (2007).
38. Spornath A, Aserin A, Ziserman L, **Danino D** and Garti N. Phosphatidylcholine Embedded Microemulsions – Physical Properties and Improved Caco-2 Permeability, *J Control Release* **119(3)**, 279-90 (2007).
39. Waisman D, **Danino D**, Weintraub Z, Schmidt J and Talmon Y. Nanostructure of the Aqueous Form of Lung Surfactant of Different Species Visualized by Cryo-Transmission Electron Microscopy, *Clin Imag* **27(6)**, 375-380 (2007).
40. Weihs D, Schmidt J, **Danino D**, Goldiner I, Leikin-Gobbi D, Eitan A, Rubin M, Talmon Y, and Konikoff FM. A Comparative Study of Microstructure Development in Paired Hepatic and Gallbladder Biles. *Biochim Biophys Acta* **1771(10)**, 1289-98 (2007).
41. Semo F, Kesselman E, **Danino D** and Livney YD. Casein Micelle as a Natural Nano-Capsular Vehicle for Nutraceuticals, *Food Hydrocolloids* **21(5-6)**, 936-942 (2007).
42. Kumar R, Kalur GC, Ziserman L, **Danino D**, Raghavan SR. Wormlike Micelles of a C22-Tailed Zwitterionic Betaine Surfactant: From Viscoelastic Solutions to Elastic Gels, *Langmuir*, **23(26)**, 12849-56 (2007).
43. Portnaya I, Ben-Shoshan E, Cogan U, Khalfin R, Fass D, Ramon O and **Danino D**. Self-Assembly of Bovine β -Casein below the Isoelectric pH. *J Agr Food Chem*, **56(6):2192-2198** (2008).

44. Moitzi C, Portnaya I, Glatter O, Ramon O and **Danino D**. Effect of Temperature on Self-Assembly of Bovine β -casein above and below the Isoelectric pH. Structural Analysis by Cryogenic-Transmission Electron Microscopy and Small-Angle X-Ray Scattering, Langmuir, **24**, 3020-3029 (2008).
 45. Wu D, Abezgauz L, **Danino D** and Co C. Alternating Polymer Vesicles. Soft Matter, **4(5)**, 905-1116 (2008).
 46. Radzishewsky IS, Kovachi T, Porat Y, Ziserman L, Zaknoon F, **Danino D** and Mor A. Structure-Activity Relationships of Antibacterial Acyl-Lysine Oligomers. Chem Biol **15(4)**, 354-362 (2008).
 47. Rozner S, Verkhovski L, Nissimov Y, Aserin A, Vilensky R, **Danino D**, Zouboulis CC, Milner Y and Garti N. Inhibition of Cholesterol Transport into Skin Cells in Cultures by Phytosterols-Loaded Microemulsion. Chem Phys Lipids **153(2)**, 109-118 (2008).
 48. Kuperkar K, Abezgauz L, **Danino D**, Verma G, Hassan PA., Aswal VK., Varade D and Bahadur P. Viscoelastic Micellar Water/CTAB/NaNO₃ Solutions: Rheology, SANS and Cryo-TEM Analysis. J Colloid Interf Sci **323(2)**, 403-409 (2008).
 49. Kogan A, Kesselman E, **Danino D**, Aserin A, Garti N. Viability and Permeability across Caco-2 cells of CBZ solubilized in fully dilutable microemulsions. Colloid Surface B **66**, 1-12 (2008).
 50. Goldman D, Lavid N, Schwartz A, Shoham G, **Danino D** and Shoham Y. Two Active Forms of *Zymomonas Mobilis* Levansucrase: an Ordered Microfibril Structure of the Enzyme Promotes Levan Polymerization. J Biol Chem **283(47)**, 32209–32217 (2008).
 51. Sarig H, Rotem S, Ziserman L, **Danino D** and Mor M. Impact of Self-Assembly Properties on Antimicrobial Activity of Short Acyl-Lysine Oligomers. Antimicrob Agents Ch **52(12)**, 4308-4314 (2008).
 52. Kuperkar K, Abezgauz L, **Danino D**, Verma G, Hassan PA, Aswal VK Varade D and Bahadur P. Structural Investigation of Viscoelastic Micellar Water/CTAB/NaNO₃ Solutions. Pramana-J Phys **71(5)**, 1003-1008 (2008).
 53. Frounfelker BD, Kalur GC, Cipriano BH, **Danino D** and Raghavan SR. Persistence of Birefringence in Sheared Solutions of Wormlike Micelles. Langmuir **25(1)**, 167-172 (2009).
 54. Lee J-H, **Danino D** and Raghavan SR. Polymerizable Vesicles Based on a Single-Tailed Fatty Acid Surfactant: A Simple Route to Robust Nano-Containers. Langmuir, **25(3)**, 1566-1571 (2009).
 55. Efrat R, Kesselman E., Aserin A, Garti N and **Danino D**. Solubilization of Hydrophobic Guest Molecules in the Monoolein Discontinuous Cubic Mesophase and its Soft Nanoparticles. Langmuir **25(3)**, 1316-1326 (2009).
- * Journal Cover**
56. Fenimore S, Abezgauz L, **Danino D**, Ho CC and Co C. Spontaneous Alternating Copolymer Vesicles of Alkylmaleimides and Vinyl Gluconamide. Macromolecules **42(7)**, 2702–2707 (2009).
 57. Thomas GB, Rader LH, Park J, DeShong P, Abezgauz L, **Danino D** and English DS. Carbohydrate Modified Catanionic Vesicles: Probing Multivalent Binding at the Bilayer Interface. J Am Chem Soc **131(15)**, 5471–5477 (2009).
 58. **Danino D**, Kesselman E, Saper G, Petrache H and Harries D. A Lamellar to Hexagonal Phase Transition in DNA/Lipid Complexes Induced by Osmotic Pressure. Biophys J **96(7)**, L43-45 (2009).
 59. Shimoni K and **Danino D**. Imperfect Dissolution in Nonionic Block Copolymer and Surfactant Mixtures. Langmuir, **25(5)**, 2736–2742 (2009).

60. Ziserman L, Abezgauz L, Ramon O, Raghavan SR and **Danino D**. Origins of the Viscosity Peak in Wormlike Micellar Solutions. 1. Mixed Catanionic Surfactants. A Cryo-Transmission Electron Microscopy Study. *Langmuir*, **25(18)**, 10483-10489 (2009).
61. Hamley IW, Castelletto V, Moulton CM, Siligardi G, Oliveira CLP, Pedersen JS, Abutbul I and **Danino D**. A Modified Amyloid Peptide Fragment Forming a Nematic Phase of Aligned Fibrils at Very Low Concentration. *Macromol Biosci* **10(1)**, 40-48 (2010).
62. Abezgauz L, Kuperkar K, Hassan PA, Bahadur P and **Danino D**. Effect of Hofmeister anions on micellization and micellar growth of the surfactant cetylpyridinium chloride. *J Colloid Interf Sci*, **342**, 83–92 (2010).
- * Top-50 most cited articles JCIS (2012)**
63. He B, Yu X, Margolis M, Leng X, Etzion Y, **Danino D** and Zhou Z. Self-Assembly and GTP Hydrolysis Are Both Essential for the Function of C.elegans Dynamin in the Removal of Apoptotic Cells. *Mol Biol Cell* **21**, 610-629 (2010).
64. Margulis-Goshen K, Kesselman E, **Danino D** and Magdassi S. Formation of Celecoxib Nanoparticles from Volatile Microemulsions. *Int J Pharmaceut* **393(1-2)**, 230-237 (2010).
65. Yehezkeili O, Raichlin S, Tel-Vered R, Kesselman E, **Danino D** and Willner I. Biocatalytic Implant of Pt Nanoclusters into Glucose Oxidase: A Method to Electrically Wire the Enzyme and to Transform it from an Oxidase to a Hydrogenase. *J Phys Chem Lett* **1(19)**, 2816-2819 (2010).
66. Castelletto V, Hamley IW, Perez J, Abezgauz L and **Danino D**. Fibrillar Superstructure from Giant Nanotapes formed by a Collagen-Stimulating Peptide. *Chem Commun* **46**, 9185–9187 (2010).
67. Bharatiya B, Yusa SI, Aswal V, Abezgauz L, **Danino D**, and Bahadur P. Synthesis and Characterization of pH Sensitive Core-Shell-Corona Micelles of Poly(styrene-block-2-vinylpyridine-block-ethylene oxide) ABC Triblock Copolymer in Aqueous Solutions. *B Chem Soc Jpn* 1-7 (2011).
68. Bharatiya B, Yusa SI, Aswal V, Abezgauz L, **Danino D** and Bahadur P. Micellar Behavior of Polystyrene-Poly(Ethylene Oxide) Diblock Copolymers in Aqueous Media: Effect of Copolymer Composition, Temperature, Salt, and Surfactants. *J Disper Sci Technol* **32(8)**, 1083-1091 (2011).
69. Sukenik S, Politi R, Ziserman L, **Danino D**, Friedler A, and Harries D. Crowding alone cannot account for cosolute effect on amyloid aggregation. *PLoS One* **6(1)**, e15608 (2011).
70. Portnaya I, Khalfin R, Kesselman E, Ramon O, Cogan U and **Danino D**. Mixed micellization - Interaction between natural and synthetic block copolymers: β -casein and synthetic triblock copolymer Lutrol F-127. *Phys Chem Chem Phys* **13**, 3153-3160 (2011).
71. Shrestha RG, Abezgauz L, **Danino D**, Sakai K, Sakai H, Abe M. Structure and Dynamics of Polyoxyethylene Cholesteryl Ether Wormlike Micelles: Rheometry, SAXS and Cryo-TEM Studies. *Langmuir* **27(21)**, 12877-12883 (2011).
72. Portnoy E, Lecht S, Lazarovici P, **Danino D** and Magdassi S. Cetuximab-Labeled Liposomes Containing NIR Probe for *in vivo* Imaging. *Nanomed-Nanotechnol* **7(4)**, 480-488 (2011).
73. Bronshtein T, Toledano N, **Danino D**, Pollack S and Machluf M. Cell Derived Liposomes Expressing CCR5 as A New Targeted Drug-Delivery System for HIV Infected Cells. *J Control Release* **151(2)**, 139-148 (2011).
74. von der Malsburg A*, Abutbul I*, Haller O, Kochs G and **Danino D**. Stalk Domain of the Dynamin-Like MxA GTPase Mediates Membrane Binding and Liposome Tubulation via the Unstructured L4 Loop. *J Biol Chem* **286(43)**, 37858-37865 (2011).

75. Ziserman L, Lee HY, Raghavan SR, Mor A, **Danino D**. Unraveling the Mechanism of Nanotube Formation by Chiral Self-Assembly of Amphiphiles. *J Am Chem Soc* **133(8)**, 2511-2517 (2011).
** Journal Cover*
76. Avinoam O, Fridman K, Abutbul I, Mauer U, **Danino D**, Grünewald K, White JM, Podbilewicz B. Functional Conservation of Cell Fusion Family Proteins in Eukaryotes and Enveloped Viruses. *Science* **332(6029)**, 589-592 (2011).
77. Ziserman L, Mor A, Harries D and **Danino D**. Curvature Instability in Chiral Amphiphile Self-Assembly. *Phys Rev Lett* **106**, 238105 (2011).
** Editors' Suggestion*
** Highlight in Physics-spotlighting exceptional research*
78. Steiner A, Szekely P, Szekely O, Dvir D, Asor R, Yuval-Naeh N, Keren N, Kesselman E, **Danino D**, Resh R, Ginsburg A, Guralnik V, Feldblum E, Tamburu C, Peres M and Raviv R. Entropic Attraction Condenses Like-Charged Interfaces Composed of Self-Assembled Molecules. *Langmuir* **28(5)**, 2604-2613 (2012).
79. Bachar M, Mandelbaum A, Portnaya I, Barenholz Y and **Danino D**. A Novel Oral Drug Nanocarrier Based on Self-Assembled b-casein Micelles. *J Control Release* **160**, 164-171 (2012).
80. Abutbul-Ionita I, Rujiviphat J, Nir I, McQuibban GA and **Danino D**. Membrane Tethering and Nucleotide-Dependent Conformational Changes Drive Mitochondrial Genome Maintenance (Mgm1) Protein-Mediated Membrane Fusion. *J Biol Chem* **287(44)**, 6634–36638 (2012).
** Journal Cover*
81. Chavda S, Yusa S, Inoue M, Abezgauz L, E. Kesselman E, **Danino D**, Bahadur P. Synthesis of Stimuli Responsive PEG47-b-PAA126-b-PSt32 Triblock Copolymer and its Self-Assembly in Aqueous Solutions. *Eur Polym J* **49**, 209–216 (2013).
82. Wadekar MN, Abezgauz L, Djanashvili K, Jager WF, Mendes E, Picken JS and **Danino D**. Supramolecular “Leeks” of a Fluorinated Hybrid Amphiphile that Self-Assemble into a Disordered Columnar Phase. *J Phys Chem B* **117(9)**, 2820–2826 (2013).
83. Margulis-Goshen K, de Gregorio MC, Pavel NV, Abezgauz L, **Danino D**, Tato JV, Magdassi S. and Galantini L. Nanoparticles and Supramolecular Nanotubes formed from a Volatile Microemulsion with Bile Salt Derivatives. *Phys Chem Chem Phys* **15**, 6016-6024 (2013).
84. Michel R, Plostica T, Abezgauz L, **Danino D** and Gradzielski M. Control of Stability and Structure of Liposomes by Means of Nanoparticles. *Soft Matter* **9**, 4167-4177 (2013).
85. Oh H, Ketner AM, Heymann R, Kesselman E, **Danino D**, Falvey DE, and Raghavan SR. Reversible Photorheological Fluids Made Easy: A Simple Route to Fluids with Photo-Switchable Viscosities Based on a Reversible Transition between Vesicles and Wormlike Micelles. *Soft Matter* **9**, 5025–5033 (2013).
** Top 10 most-read Soft Matter articles – Q2 2013*
86. Lee HY, Shin SHR, Abezgauz L, Lewis SA, Chirsan AM, **Danino D** and Bishop KJM. Integration of Large Nanoparticles within Bilayer Structures via Adaptive Surface Chemistry. *J Am Chem Soc* **135**, 5950-5953 (2013).
87. Patchornik G, **Danino D**, Kesselman E, Wachtel E, Friedman N and Sheves M. Purification of a Membrane Protein with Engineered-Micelles. *Bioconjugate Chem* **24(7)**, 1270-1275 (2013).
88. Oh H, Javvaji V, Yaraghi NA, Abezgauz L, **Danino D** and Raghavan SR. Light-Induced Transformation of Vesicles to Micelles and Vesicle-Gels to Sols. *Soft Matter* **11576-11584** (2013).
89. Patchornik G, Wachtel E, Kesselman E and **Danino D**. Cryo-TEM Structural Analysis of

- Conjugated Nonionic Engineered-Micelles. *Soft Matter* **10(27)**, 4922-4928 (2014).
90. Dahlman JE, Barnes C, Khan O, Thiriot A, Jhunjunwala S, Shaw TE, Sahay G, Bogorad R, Yin H, Racie T, Dong Y, Jiang S, Seedorf D, Dave A, Sandu SK, Webber JM, Novobrantsana T, Ruda VM, Lytton-Jean AKR, Levins CG, Kalish B, Mudge DK, Perez M, Abezgauz L, Dutta P, Smith L, Charisse K, Kieran MW, Fitzgerald K, Nahrendorf M, **Danino D**, Rubin M, Tuder RM, von Andrian UH, Akinc A, Schroeder A, Panigraphy D, Kotelianski V, Langer R and Anderson DG. In Vivo Endothelial siRNA Delivery using Polymeric Nanoparticles with Low Molecular Weight. *Nature Nanotechnology* **9(8)**, 648-655 (2014).
- * Nature Nanotechnology | NEWS AND VIEWS**
91. Pearlstein H, Felsan Y, Turovsky T, Rubinstein A, **Danino D**, Stepensky D and Barenholz Y. Beta-casein nanocarriers of celecoxib for improved gastrointestinal bioavailability. *Eur J Nanomedicine* **6(4)**, 217-226 (2014).
92. Michel R, Plostica T, Appavou M.S., Kesselman E, **Danino D** and Gradzielski M. Internalization of Silica Nanoparticles into Fluid Liposomes – Formation of Interesting Hybrid Colloids. *Angew Chem* **3(46)**, 12441-12445 (2014).
- * Journal Cover**
93. Turovsky T, Portnaya I, Kesselman E, Abutbul-Ionita I, Dan N and **Danino D**. Effect of Temperature and Loading on the Structure of β -Casein/Ibuprofen Assemblies. *J Colloid Interf Sci* **449**, 514-521 (2015).
94. Khimani M, Yusa S, Nagae A, Enomoto R, Aswal VK, Kesselman E, **Danino D** and Bahadur P. Self-assembly of multi-responsive poly(N-isopropylacrylamide)-b-poly(N,N-dimethyl-aminopropylacrylamide) in aqueous media. *Eur Polym J* **69**, 96-109 (2015).
95. Hollander A and **Danino D**. Cochleate Characterization by Cryogenic Electron Microscopy Methods: Cryo-TEM and Cryo-SEM. *Colloid Surface A* **483**, 187–192 (2015).
96. Ionita-Abutbul I, Abezgauz L, **Danino D** and Hoffmann H. Rings and Loops in Perflurosurfactants Viscoelastic Solutions, *Colloid Surface A* **483**, 150-154 (2015).
97. Turovsky T, Khalfin R, Kababya S, Schmidt A, Barenholz Y and **Danino D**. Celecoxib Encapsulation in β -casein Micelles: Structure, Interactions, and Conformation. *Langmuir* **31(26)**, 7183-7192 (2015).
98. Pearlstein H, Turovsky T, Gimeson P, Cohen R, Rubinstein A, **Danino D** and Barenholz Y. The thermotropic behaviour of celecoxib-loaded beta-casein micelles: relevance to the improved bioavailability. *Eur Polym J* accepted (2015)

Review papers

- R1. **Danino D** and Hinshaw EJ. Dynamin Family of Mechanoenzymes, *Curr Opin Cell Biol* **13**, 454-460 (2001).
- R2. Kochs G, Reichelt M, **Danino D**, Hinshaw JE and Haller O. Assay and Functional Analysis of Dynamin like Mx Proteins. *Method Enzymol* **404**, 632-43 (2005).
- R3. Cui H, Hodgdon TK, Kaler EW, Abezgauz L, **Danino D**, Lubovsky M, Talmon Y and Pochan DJ. Elucidating the Assembled Structure of Amphiphiles in Solution via Cryogenic Transmission Electron Microscopy, *Soft Matter* **3(8)**, 945-955 (2007).
- R4. **Danino D**. Cryo-TEM of Soft Molecular Assemblies, *Curr Opin Colloid In* **17(6)**, 316–329 (2012).
- R5. Dan N and **Danino D**. Structure and Kinetics of Lipid-Nucleic Acid Complexes, *Adv Colloid Interfac* **205**, 230–239 (2014).

R6. Book chapters

- B1. **Danino D**, Kaplun A, Talmon Y and Zana R. Cryo-TEM Investigations of Unusual Amphiphilic Systems in Relation to their Rheological Properties, in *“Structure and Flow*

- in Surfactant Solution*”, CA Herb and RK Prud’homme, Eds., Chap. 6, pp. 105-119, ACS Symposium Series 578 (1994).
- B2. **Danino D** and Talmon Y. Cryo-Transmission Electron Microscopy, in *“Physical Chemistry of Biological Interfaces”*, A Baskin and W Norde, Eds., Chap. 24, pp. 799-821, Marcel Dekker, NY (2000).
- B3. **Danino D** and Talmon Y. Direct-Imaging and Freeze-Fracture Cryo-TEM of Molecular Gels in *“Molecular Gels - Materials with Self-Assembled Fibrillar Networks”*, RG Weiss and P Terech, Eds. Springer, The Netherlands (2006).
- B4. Ramon O, and **Danino D**. Lipid Self-Assembly Particles for Delivery of Nutraceuticals, in *“Delivery and Controlled Release of Bioactives in Foods and Nutraceuticals”* N Garti Ed., Chap. 8, pp. 207-233. Woodhead Publishing Limited (2008).

Books

Wrenn PS, Harries D and **Danino D**. Talking about BioColloids: Perspectives from Chemistry, Physics, Biology, and Engineering. Wiley-VCH, Weinhei, Macromolecular Symposia (2005).

PATENT APPLICATIONS

- **Danino D**, Barenholz Y. Nanoencapsulation of Drugs and Therapeutic Bioactive Agents in β -Casein Assemblies for Oral Delivery. PU patent 0881276.
- **Danino D**, Livney Y, Cogan U, Ramon O, Portnaya I. β -Casein Assemblies for Enrichment of Foods, Beverages and Soft Drinks including Clear Drinks. US patent 08865222
- **Danino D**, Barenholz Y. β -Casein Assemblies of Mucosal Delivery of Therapeutic Bioactive Agents. US patent 08865223.

Journal cover art

- A Window to Ordered Nanoparticle Formation by Lipids. Langmuir Issue 25(3), 2009.
- Unraveling the Mechanism of Nanotube Formation by Chiral Self-Assembly of Amphiphiles. J Am Chem Soc, Issue 08, 2011.
- Membrane Tethering and Nucleotide-Dependent Conformational Changes Drive Mitochondrial Genome Maintenance (Mgm1) Protein-Mediated Membrane Fusion. J Biol Chem Issue 287(44), 2012.
- Internalization of Silica Nanoparticles into Fluid Liposomes – Formation of Interesting Hybrid Colloids. Angew Chem **3(46)**, 12441-12445 (2014).

EDITORIAL ACTIVITIES

1. Talking about Bio Colloids, Macromolecular Symposia volume 219 (2004).
2. Microscopy Methods, Current Opinion in Colloid and Interface Science, volume 10, issue 4 (2005).
3. Microscopy Methods, Current Opinion in Colloid and Interface Science, volume 13, issue 5 (2008).
4. Microscopy Methods, Current Opinion in Colloid and Interface Science, volume 17, issue 6 (2012).
5. Biological Colloids and Colloids in Biology, Colloids and Surfaces B: Biointerfaces, Special Issue on (in progress).
6. Proceedings of ECIS2014 - The 28th Conference of the European Colloid and Interface Society, Colloids and Surfaces A (in progress).

CONFERENCES

Invited and oral talks

1997-1999

1. 4S-Supramolecular Science Students Seminar, Kibbutz Ramat-Hashofet, 1997. Dependence of Aggregates Morphology on Structure of Dimeric Surfactants.
2. The 11th Conference of the European Colloid and Interface Society, Lunteren, The Netherlands, 1997. Recent Advances in Cryogenic Transmission Electron Microscopy. **(Invited)**
3. The 215th National American Chemical Society Meeting, Dallas, USA, 1998. Cryogenic-Temperature Transmission Electron Microscopy of Silicone in Isooctane. **(Invited)**
4. The 33rd Israel Society for Electron Microscopy Meeting, Bar-Ilan University, Israel, 1999. Chemical Structure vs. Nanoscopic Structure in Surfactant Aqueous Systems. **(Invited)**

2000

5. The 4th Minerva Meso-Symposium on Macromolecular Interfaces and Complex Fluids, Ben-Gurion University of the Negev, Beer-Sheva, Israel, 2000. Microstructural Evolution of Lipid Aggregates in Nucleating Model and Native Biles. **(Invited)**
6. Israel Physics Society Meeting, Technion, Israel, 2000. From Soft Condensed to Hard Condensed Matter: a Pathway of Cholesterol Crystallization in Bile. **(Invited)**
7. The Second Israel Conference on Cryogenics, Rafael, the Congresses Center, Haifa, Israel, 2000. Cryo-Transmission Electron Microscopy and Light Microscopy Study of the Anticancer Paclitaxel. **(Invited)**

2001

8. Microscopy and Microanalysis, Long Beach, CA, USA, 2001. Digital Imaging: an Advanced Tool for cryo-TEM Studies.

2002

9. Microscopy and Microanalysis, Quebec, Canada, 2002. Conformational Changes of Dynamin-lipid Tubes upon GTP Addition: A Time-Resolved Study Using Digital-Imaging cryo-TEM.

2003

10. The 37th Israel Society for Electron Microscopy Meeting, Michmoret, Israel, 2003. The GTPase Dynamin: a Mechanochemical Enzyme or a Molecular Switch?
11. The 39th annual meeting Israel Association of Chemical Engineering, Tel-Aviv, Israel. Relationship Between Rheological Properties and Microstructure in Mixtures of Anionic and Cationic Surfactants.
12. 77th ACS Colloids and Surfaces Annual Meeting, Atlanta Georgia, USA, 2003. Relationship between Rheological Behavior and Structural Properties in Charged Surfactant Systems. **(Invited)**
13. 77th ACS Colloids and Surfaces Annual Meeting, Atlanta, Georgia, USA, 2003. Studying Molecular Assemblies Using Digital-Imaging cryo-TEM.
14. Microscopy and Microanalysis, San Antonio, TX, USA, 2003. Structure and Rheology of Mixed Surfactant Systems.

2004

15. The 19th Umbrella symposium, Jülich, Germany, 2004. Nanostructural Analysis of Molecular Assemblies by Cryogenic-TEM. **(Invited)**.
16. Gordon Research Conference on Lysosomes and Endocytosis, Proctor Academy, NH, USA, 2004. Rapid Constriction of Lipid Bilayers by the Mechanochemical Enzyme Dynamin. **(Invited)**.
17. Microscopy and Microanalysis, Savannah, GA, USA, 2004. Evolution of Lipid Aggregates

and Cholesterol Precipitation in Nucleating Model and Human Biles (**Invited**).

18. Microscopy and Microanalysis, Savannah, GA, USA, 2004. Time-Resolution Studies of Dynamin/Lipid Tubes.
19. European Microscopy Conference, Antwerp, Belgium, 2004. The Effect of the Proline-Rich Domain on the Conformational Changes of Dynamin.

2005

20. The 230th ACS National Meeting, in Washington DC, USA, 2005. Fast Dissolution of Nonionic Diblock Copolymer Assemblies by Nonionic Surfactants, and Formation of Y-Micelles with Short Arms.
21. The 230th ACS National Meeting, in Washington DC, USA, 2005. Dynamic Structural Transformations of Dynamin Assemblies upon GTP Binding and Hydrolysis.
22. The 19th Conference of the European Colloid and Interface Society, Geilo, Norway, 2005. Formation of Unique Y Micelles with Short Arms in Nonionic Diblock Copolymer-Nonionic Surfactants Mixtures.

2006

23. 80th ACS Colloid and Surface Science Symposium Boulder, CO, USA, 2006. 1-D and 2-D Growth of Lamellar Elements in Nonionic Mixtures of ChEO₁₀ and C₁₂EO₃.
24. The 20th Conference of the European Colloid and Interface Society, Budapest, Hungary, 2006. From Discs to Ribbon Networks: the Second CMC in Nonionic Amphiphilic Mixtures.

2007

25. The 2nd BT-ChemSoft 2, 2007 BGU, Israel 2007. Mechanisms and Kinetics of Self-Assembly of Proteins, Peptides and Surfactants.
26. The 2nd BT-ChemSoft Meeting, Ben Gurion University, Beer-Sheva, Israel, 2007. Mechanism and Kinetics of Peptide-Nanotube Formation. (presented by the student).
27. The 41st annual meeting of the Israel Society for Microscopy, Weizmann Institute of Science, Rehovot, Israel, 2007. From Spherical Micelles to Nanotubes- The Self-Aggregation of the Lipoamino Acid, N α -Dilauryllysine. (presented by the student).
28. Engineering Conferences International (ECI): Association in Solution for Function, Performance, and Synthesis, Barga, Italy. Time-resolution Studies of Peptide Nanotube Formation (**invited**).
29. The 21st Conference of the European Colloid and Interface Society, Geneva, Switzerland, 2007. Kinetics of Chiral Self-Assembly of Lipoamino Acids into Nanotubes.
30. 26th IVS Annual Conference and Technical Workshop, Herzeliya, Israel, 2007. Kinetics of Chiral Self-Assembly of Lipoamino Acids into Nanotubes.

2008

31. Joint RBNI/Karlsruhe/Weizmann Symposium on the Interface between Nanotechnology and Biology, Technion, Israel, 2008. Kinetics of Peptide Nanotube Formation. (**Invited**).
32. The 82nd ACS Colloid and Surface Science, Symposium on Self-Assembly of Surfactants and Biomolecules. North Carolina, USA, 2008. Elucidating Self-Assembly and Nanostructure of soft materials by Cryogenic-Electron Microscopy. (**Keynote lecture**).
33. 17th International Symposium on Surfactants in Solution, Berlin, Germany 2008. 1-D and 2-D Growth of Lamellar Elements in Cholesterol-Based Nonionic Mixtures ... and 3-D too.

2009

34. 13th International Conference and Surface and Colloid Science (ICSCS) and 83rd ACS Colloid and Surface Science Symposium, NYC, USA. Unraveling the Structure of Structured Lipids by Cryo-TEM (**Invited**)
35. COST Action D43, to be held in parallel with the 23rd Conference of the European Colloid and Interface Society, Antalya, Turkey. Beta-Casein Micelles: Formation and Use as

Nanoscopic Delivery Vehicles of Bioactive Agents.

2010

36. Beyond Self-Assembly, Discussion workshop, Bad Gastein, Austria. Chiral Self-Assembly and Nanotube Formation by Bioinspired Amphiphiles.
37. Fundamental Research in Milk Symposium, Afikim, Israel. Characterization of Caseins: Examples from Self-Organization of β -Casein.
38. Polymeric Biomaterials Conference, University of Reading, UK. Chiral Self-Assembly of Bioinspired Amphiphiles. **(Invited)**
39. Technion-BNC-nanoGUNE seminar, Technion. Soft-Matter Self-Assembly.
40. ECIS Workshop, part of the 24th Conference of the European Colloid and Interface Society, Prague, Czech Republic. Origin of the Viscosity Peak in Viscous Micellar Solutions - Insight from Cryo-TEM. **(Invited)**
41. The 24th Conference of the European Colloid and Interface Society, Prague, Czech Republic. Structuring Lipids. **(Invited)**
42. International Conference on Nanoscopic Colloid and Surface Science (NCSS2010); 35th Anniversary of Division of Colloid and Interface Chemistry, The Chemical Society of Japan. Origin of the Viscosity Peak in Viscous Micellar Solutions -Insight from Cryo-TEM. **(Invited)**
43. PacificChem, the International Chemical Congress of Pacific Basin Societies, Hawaii, USA. Nanostructured β -casein Assemblies for Oral Delivery of Anti-Inflammatory Drugs.
44. PacificChem, the International Chemical Congress of Pacific Basin Societies, Hawaii, USA. Insight into Chiral Self-Assembly of Biologically Inspired Amphiphiles into Ribbons and Nanotubes. **(Invited)**

2011

45. The 76th meeting of the Israel Chemical Society meeting, Tel-Aviv, Israel. Insight into Chiral Self-Assembly of Bio-Inspired Amphiphiles. **(Invited)**
46. Liposomes in Jerusalem 2011, Ma'ale-Hachamisha, Israel. Dynamin Proteins in Membrane Fission and Fusion. **(Invited)**
47. The 47th annual meeting of the Israel Institute of Chemical Engineers. A Novel Oral Drug Nanocarrier Based on Self-Assembled β -Casein Micelles. **(Invited)**
48. The 25th European Colloid and Interface Society (ECIS) Meeting, Berlin, Germany. Unraveling the Mechanism of Nanotube Formation by Chiral Self-Assembly of Amphiphiles. **(Keynote lecture)**
49. International Conference on Advanced Materials for Sustainable Development (ICAMN2011), Kathmandu, Nepal. Self-Assembly and Nanostructure of Soft Materials. **(Keynote lecture)**
50. The 1st French Israeli Meeting on Nanotechnology applied to Nanotechnology and Life Sciences, Tel-Aviv. Self-Assembly and Nanostructure of Soft Materials. **(Invited)**

2012

51. Colloids and Nanomedicine 2012, Amsterdam. Self-Assembled Beta-Casein Micellar Nanocarriers for Oral Drug Delivery.
52. The 26th European Colloid and Interface Society (ECIS) Meeting, Malmo, Sweden. Self-Assembly of Caseins.
53. Soft Matter Days, Jülich, Germany. Spatial and Temporal Organization of Soft Condensed Matter: Insight from Cryo-TEM. **(Invited)**

2013

54. Nanotechnology and Medicine Workshop: Making and Visualizing Nanomaterials for Medical Applications, Harvard University, USA. Principles of Cryogenic-TEM and Applications in Nanotechnology and Nanomedicine.

55. American Physical Society (APS) March Meeting, Baltimore, USA. Unraveling the Mechanism of Nanotube Formation by Chiral Self-Assembly of Amphiphiles.

2014

56. Functional Peptide Nanostructures, Rehovot, Israel. Self-Assembly of Peptides and Lipids into 1-D Nanostructures. **(Invited)**

57. Surfactants in Solution, Coimbra, Portugal. Self-Assembly of Peptides and Lipids into 1D Nanostructures

2015

58. The 15th Conference of the International Association of Colloid and Interface Scientists (IACIS) and the German Colloids Society, Mainz, Germany. Structure and Interactions of Biocolloids Revealed by Cryogenic Electron Microscopy. **(Keynote lecture)**

59. The 29th European Colloid and Interface Society (ECIS) Meeting, Bordeaux, France. 1D Self-Assembly of Peptides and Lipids into Ribbons and Nanotubes. **(Keynote lecture)**

60. Nano Particles in Agriculture, Food and the Environment, Volcani Institute, Israel. Cryo Electron Microscopy in the Study of Soft Nanostructures. **(Invited)**

61. Catalonia Nano Cluster - Technion Symposium. 1D Self-Assembly of Peptides and Lipids into Ribbons and Nanotubes.

62. Annual Meeting of the Israeli Biophysical Society, Israel. TBA **(Invited)**

63. Colloids and Surfaces, Groningen, The Netherlands. Recent Advances in CryoEM of Soft Condensed Matter. **(Invited)**

2016

64. Geometry, Elasticity, Fluctuations, and Order in 2D Soft Matter, Santa Barbara, CA, USA. **(Invited)**

65. Engineering Conferences International: Colloidal, Macromolecular & Biological Gels, Hernstein, Austria. **(Invited)**

66. Biophysical Society 60th Annual Meeting, Cryo-EM Subgroup Symposium, Los Angeles, USA. **(Invited)**

Invited and Special Lectures at Universities:

2005-2010

Drexel University; Delaware University; Ben-Gurion University; Bar-Ilan University; Hebrew University; Tel-Aviv University; Eindhoven University; Freiburg University; Yale University; Baylor College of Medicine; National Institute of Health (NIH)

2011

Hebrew University; Tel-Aviv University; Ben-Gurion University; Weismann Institute of Science; University of Maryland; Delaware University

2012

Technische Universität Berlin; Hebrew University; Harvard University; MIT

2013

Harvard University; Georgetown University; NIH; King's College, London; MIT- Koch Institute

>190 Posters presented at international meetings

Participation in organizing international conferences

2004 The 227th American Chemical Society National Meeting, Anaheim, CA, USA. Bio Colloids: Self-Assembly, Nanostructure and Applications. (6 sessions), Symposia organizer and chair.

- 2004 Microscopy and Microanalysis, Savannah, Georgia, USA. Nanostructure of Molecular Assemblies: Biomembranes, Proteins, Surfactants, Polymers and Liquid Crystals, (2 sessions). Symposia organizer and chair.
- 2005 Microscopy and Microanalysis, Cryo-EM of Molecular Assemblies. Honolulu, Hawaii, USA. (3 sessions) Symposia organizer and chair.
- 2005 Umbrella Technion-Jülich-Aachen Meeting, Technion. Symposium organizer.
- 2006 The 40th Israel Society for Electron Microscopy Meeting. Member of the organizing committee, Symposia chair.
- 2007 The 41st Israel Society for Electron Microscopy Meeting. Member of the organizing committee, Session chair.
- 2008 The 42nd Israel Society for Electron Microscopy Meeting. Member of the organizing committee, Session chair.
- 2008 The 17th International Symposium on Surfactants in Solution, Berlin, August 2008. Session chair.
- 2009 The 43rd Israel Society for Electron Microscopy Meeting. Member of the organizing committee, Session chair.
- 2009 The 23rd Conference of the European Colloid and Interface Society, Antalya, Turkey. Member of the organizing committee, Session chair.
- 2009 Contemporary Research in Polymer Engineering and Science, Technion, Haifa, Israel, 2009. Session chair.
- 2010 Beyond Self-Assembly workshop, Bad Gastein, Austria 2010. Session chair and discussion leader.
- 2010 Technion-BNC-nanoGUNE seminar, Technion. Session chair.
- 2010 The 44th Israel Society for Electron Microscopy Meeting. Meeting organizer, symposia chair, committee member
- 2010 International Conference on Nanoscopic Colloid and Surface Science (NCSS2010); 35th Anniversary of Division of Colloid and Interface Chemistry, the Chemical Society of Japan. Member of the poster award committee.
- 2011 The 45th Israel Society for Electron Microscopy Meeting. Meeting organizer, committee member.
- 2011 Liposomes in Jerusalem 2011. Member of the poster award committee.
- 2011 International Conference on Advanced Materials and Nanotechnology (ICAMN201); Kathmandu, Nepal. Member of the international advisory board.
- 2011 Fundamental Research in Milk Symposium III, Afikim, Israel. Symposia organizer.
- 2011 The 1st Israel society of Biotechnology Engineering Meeting, Member of the organizing committee, and symposia chair.
- 2012 The 46th Israel Society for Electron Microscopy Meeting. Meeting organizer, committee member.
- 2012 Engineering Conferences International (ECI); Portugal; Biological and Pharmaceutical Complex Fluids: New Trends in Characterizing Microstructure, Interactions and Properties. Member of the scientific steering committee.
- 2012 European Microscopy Congress (EMC 2012); Manchester, UK. Member of the international scientific advisory board.
- 2012 Colloids and Nanomedicine 2012, Amsterdam, The Netherlands, 15-17 July. Member of the international advisory board and of the program committee.
- 2012 The 26th Conference of the European Colloid and Interface Society, Malmo, Sweden. Member of the prizes committee.
- 2013 The 47th Israel Society for Electron Microscopy Meeting. Meeting organizer, committee member.

- 2013 Microscopy at the Frontiers of Science, Tarragona, Spain. Member of the international scientific advisory board.
- 2013 The 27th Conference of the European Colloid and Interface Society, Sofia, Bulgaria. Member of the international scientific advisory board.
- 2014 18th International Microscopy Congress, Prague, Czech Republic. Member of the international scientific advisory board.
- 2014 The 48th Israel Society for Electron Microscopy Meeting, Rehovot, Israel. Member of the organizing committee.
- 2014 Functional Peptide and Protein Nanostructures Meeting, Tzuba, Israel. Session chair.
- 2014 Surfactants in Solution (SIS), Coimbra, Portugal. Session chair.
- 2014 The 28th Conference of the European Colloid and Interface Society, Haifa, Israel. Conference organizer.
- 2015 The 49th Israel Society for Electron Microscopy Meeting, Tel Aviv, Israel. Member of the organizing committee.
- 2015 5th International Conference: Colloid and Interface Sciences for a Brighter Future. Member of the scientific committee.
- 2015 EM and CryoEM @ Technion: an international training course to young scientists. Meeting organizer
- 2015 The 15th Conference of the International Association of Colloid and Interface Scientists (IACIS) and the German Colloids Society, Mainz, Germany. Member of the poster prize committee.
- 2015 The 29th Conference of the European Colloid and Interface Society, Bordeaux, France. Session chair, and member of the posters prize committee.
- 2015 Colloids and Surfaces, Groningen, The Netherlands. Session chair.
- 2016 The 50th Israel Society for Electron Microscopy Meeting, Tel Aviv, Israel. Member of the organizing committee.
- 2016 6th International Conference: New Perspectives, New Frontiers, New Horizons. Berlin, Germany. Member of the scientific committee.