
*Andrew S. Janoff
25 Spring Street
Number 310
Princeton, NJ 08542*

EDUCATION

1980 - 81 Harvard Medical School, Research Fellow in Pharmacology
1980 - 81 Massachusetts General Hospital, Research Fellow in Anesthesia
1980 Michigan State University, Ph.D., Biophysics
1977 Michigan State University, M.S., Biophysics
1971 The American University, B.S., Biology

PROFESSIONAL POSITIONS

2014 Chairman, CEO, and President, Taaneh, Inc.
2012- Expert Consultant
2009-2011 CEO
TranslationUP
2005-2008 Chairman and CEO
Celator Pharmaceuticals, Inc., Princeton, New Jersey
1999-2007 Visiting Research Collaborator, Department of Chemical Engineering
Princeton University, Princeton, New Jersey
1996-2006 Adjunct Professor, Department of Pathology, Anatomy & Cell Biology
Thomas Jefferson University, Philadelphia, Pennsylvania
2002 – 2005 Chairman and CEO
Celator Technologies, Inc., Vancouver, British Columbia, Canada
2001 - 2002 Chairman
Celator Technologies, Inc., Vancouver, British Columbia, Canada
1997 - 2001 Vice President of Research & Development
The Liposome Company, Inc., Princeton, New Jersey
1997 - 1999 Visiting Research Collaborator, Department of Molecular Biology
Princeton University, Princeton, New Jersey
1996 - 1997 Visiting Research Scholar, Department of Physics
Princeton University, Princeton, New Jersey
1993 - 1997 Vice President of Research
The Liposome Company, Inc., Princeton, New Jersey

1988 - 1995 Adjunct Associate Professor of Pathology, Anatomy & Cell Biology
Thomas Jefferson University, Philadelphia, Pennsylvania

1988 - 1993 Executive Director of Research
The Liposome Company, Inc., Princeton, New Jersey

1984 - 1988 Director of Membrane Research
The Liposome Company, Inc., Princeton, New Jersey

1981-1984 Senior Scientist
The Liposome Company, Inc., Princeton, New Jersey

1982 - 1988 Adjunct Assistant Professor of Physiology & Biophysics
Rutgers Medical School, Piscataway, New Jersey

1981 Adjunct Assistant Professor of Biology
Boston College, Chestnut Hill, Massachusetts

EDITORIAL POSITIONS

2008- Editor Emeritus, *The Journal of Liposome Research*, Informa, New York.
1997-2008 Editor-in-Chief, *The Journal of Liposome Research* Informa., New York.
1994-1997 Editorial Board, *The Journal of Liposome Research*, Marcel Dekker Inc., New York.
1998-1999 Editor, *Liposomes: Rational Design*, Marcel Dekker Inc., New York, 1999.

ADVISORY COMMITTEES/CONSULTING

National Institutes of Health Advisory Committee on Antiphospholipid Antibodies and Thrombosis, 1987, 1991
Ad hoc member, National Institutes of Health, Hematology Study Section, 1992
Scientific Advisory Board, Rider University, Lawrenceville, New Jersey, 1990 - 1994
The Committee on Science and the Arts, Franklin Institute, Philadelphia, Pennsylvania 1994 – 1996
NATO Advanced Study Institute, Cape Sounion, Greece, 1997
United States Food and Drug Administration, United States Pharmacopeia, American Association of Pharmaceutical Scientists Joint Symposia: *Assuring Quality and Performance of Sustained and Controlled Release Parenterals*, Washington, D.C. 2001
National Cancer Institute Developmental Therapeutics Program Symposium :*Preclinical Models for Defining Efficacy of Drug Combinations*, The National Cancer Institute, Frederick, Maryland, 2003
Centre for Drug Research and Development, Vancouver, Canada 2009
AstraZeneca, 2012
Zydus Pharmaceuticals, 2014-present
Alnylam Pharmaceuticals, 2012
Viking Pharmaceuticals, 2014

EXPERT TESTIMONY

United States Federal District Court

REVIEW GRANTS AND MANUSCRIPTS FOR

National Institutes of Health
National Science Foundation
Proceedings of the National Academy of Sciences
Science
Nature

Biochemistry
Biochemical Pharmacology
Biophysical Journal
Clinical Chemistry
Chemistry and Physics of Lipids
CRC Press, Inc.
Journal of Biological Chemistry
Journal of Pharmaceutical Sciences
Journal of Liposome Research
Journal of Theoretical Biology

INVITED LECTURES (*selected*)

Gordon Research Conference on Lipid Metabolism, 1985
Swathmore College, Department of Chemistry, 1987
Gordon Research Conference on Liposomes and Other Organized Lipid Assemblies, 1987
Walter Reed Army Institute for Research, 1988
Sigma Xi, Princeton Chapter, Guest Lecture, 1988
Bayer Centenary Symposium, Perspectives in Antiinfective Therapy, Washington, D.C., 1988
Fourth Annual Princeton Liposome Conference, Princeton, New Jersey, 1989
Thomas Jefferson University, Pathology Grand Rounds, 1990
International Society on Thrombosis & Hemostasis, 26 Annual Meeting, Barcelona, Spain, 1990
Liposomes in Drug Delivery, Twenty-One Years On, London, England, 1990
Bristol-Myers Squibb Pharmaceutical Research Institute Symposia on Systemic Fungal Disease, Princeton, New Jersey, 1990
International Society on Thrombosis and Hemostasis, 27 Annual Meeting, Amsterdam, The Netherlands, 1991
Contrast Media Research Conference, Cambridge, England, 1991
Biomedical Engineering Society Annual Meeting, Charlottesville, Virginia, 1991
Eighteenth Annual Western Canada Biomembranes Conference, Whistler, British Columbia, Canada, 1992
Thirty-fourth International Conference on the Biochemistry of Lipids, Noordwijkerhout, The Netherlands, 1993
The Fifth Princeton Liposome Conference, Princeton, New Jersey, 1993
Liposomes as Biomimetics Conference, Rome, Italy, 1993
Liposomes in Drug Delivery, London, England, 1993
New York University Medical Center, Rheumatology Grand Rounds, 1994
Liposomes as Biomembrane Models: Principles, Applications and interactions with Metals Ions and Biological Molecules, Sevilla, Spain, 1994
Liposome Research Days, Vancouver, Canada, 1994
Liposomes in Biomedical Research, Berlin, Germany, 1994
A Liposome Birthday Conference: 1965 Back to the Future 1995, Cambridge, England, 1995
Satellite Symposium: British Society for Haematology Annual Scientific Meeting, Brighton, England, 1995
The Annual Congress of the Association of Faculties of Pharmacy of Canada, Montréal, Canada, 1995
35th Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, California, 1995
The Sixth Princeton Liposome Conference, Princeton, New Jersey, 1995
Reunión de Farmacia Hospitalaria, Madrid, Spain, 1996
Societat Catalana de Farmàcia Clínica Sessió Científica, Barcelona, Spain, 1996
Symposium on Systemic Fungal Infections, Prague, 1996
Pre-Congress Symposium at The IHS 9th International Symposium on Infections in the Immunocompromised Host, Assisi, Italy, 1996
The Fifth Liposome Research Days, Shizuoka, Japan, 1996
Simpósio de Lançamento ABELCET®, Lisboa, Portugal, 1996
Liposome Advances: Progress in Drug and Vaccine Delivery, London, England, 1996
4th International Antifungal Drug Discovery & Development Summit, Princeton, New Jersey, 1999
American Chemical Society National Meeting, Anaheim, California, 1999
Liposome Advances: Progress in Drug and Vaccine Delivery, London, England, 1999
Gordon Research Conference on Drug Carriers in Medicine & Biology, Ventura, California, 2000
7th Liposome Research Days Conference, Napa Valley, California, 2000
Brookdale University Hospital, Hematology – Oncology Conference, 2000

Brooklyn Hospital Center, Hematology – Oncology Lecture Series, 2000
Mount Sinai Hospital, Hematology – Oncology Grand Rounds, 2000
The 27th International Symposium of Bioactive Materials, Paris, France, 2000
US – Swiss Forum on NanoBiosciences, Princeton University, Princeton, New Jersey, 2000
Ventures West CEO Summit, Vancouver, Canada, 2003
Canadian Consulate Trade Office’s Venture Capital Advisory Board meeting, San Francisco, California, 2003
Sixth International Conference, Liposome Advances: Progress in Drug and Vaccine Delivery, School of Pharmacy, University of London, England, 2003
Canada-US Venture Capital Conference, Quebec City, Canada, 2004
Controlled Release Society, 32nd Annual Meeting, Miami, Florida, 2005
Lipids, Liposomes & Biomembranes Conference, Vancouver, Canada, 2005
The Cancer Institute of New Jersey, Grand Rounds, 2005.
RSC/KAST Bilateral Symposium: Drug Delivery Systems, Vancouver, Canada, 2005
Advances in Drug Delivery, School of Pharmacy, University of London, 2007
Piper Jaffray 19th Annual Healthcare Conference, 2007
Biotech 2007 Conference, Philadelphia. (Invited Panelist-Funding Early Stage Bioscience Companies- Do You Have What It Takes?)
Mid Atlantic Capital Alliance Conference, 2007
C21 Biopartnering Conference, 2007
CDRD (seminar series), Vancouver British Columbia, 2009
ILS Liposome Advances, Annual Meeting, London, England, 2009
ILS Liposome Advances, Annual Meeting, London England, 2011 (*session chair*)
ILS Liposome Advances annual Meeting, London England, 2013 (*session chair*)
1st International Congress: From Drug Discovery to Drug Delivery. Athens, Greece, 2014 (*keynote speaker*)
ILS/LRD Joint International Conference, Progress in Liposome Drug and Vaccine Delivery, Athens, Greece 2017 (*invited speaker*)

GRANTS

Core Director - NIH RFA 90-IA-10; NCDDG for Treatment of AIDS: Opportunistic Infections, \$4,315,876 (1991-1994).

MEMBERSHIPS

American Association for the Advancement of Science
Biophysical Society
New York Academy of Sciences
International Liposome Society
American Association for Cancer Research
American Society for Clinical Oncology

INVESTIGATIONAL NEW DRUG APPLICATIONS

1987 TLCTM-D99 (Doxorubicin HCL Liposome Injection)
1988 ABLC (Amphotericin B Lipid Complex)
1990 TLCTM-G65 (Gentamicin Liposome Injection)
1992 TLCTM-C53 (Liposomal Prostaglandin E₁ Injection)
1998 ELL-12 (Liposomal Ether Lipid)
2001 BRT-216 (Bromoacylated Paclitaxel)
2004 CPX-1 (Liposomal Floxuridine Irinotecan Injection; *CTA*)
2006 CPX-1 (Liposomal Floxuridine Irinotecan Injection; *IND*)
2006 CPX-351 (Liposomal Cytarabine Daunorubicin Injection)

NEW DRUG APPLICATIONS

- 1995 ABELCET® (Amphotericin B Lipid Complex Injection)
1998 EVACET® (Liposomal Doxorubicin Injection)

MARKETING AUTHORISATION APPLICATIONS

- 2000 MYOCET® (Liposomal Doxorubicin Injection)

ORIGINAL ARTICLES

1. **Cagen, A., Janoff, A.S., Bus, J.S. and Gibson, J.E.:** Effects of paraquat (methylviologen) on liver function in mice. *J. Pharm. Exper. Ther.* 198, 222-229, 1976.
2. **Janoff, A.S. and Rosenberg, B.:** Chemically evoked hypothermia in the mouse: Towards a method for investigating thermodynamic parameters of aging and death in mammals. *Mech. Aging and Develop.* 7, 335-349, 1978.
3. **Janoff, A.S., Haug, A. and McGroarty, E.J.:** Relationship of growth temperature and thermotropic lipid phase changes in cytoplasmic and outer membranes from E. coli. *Biochem. Biophys. Acta* 555, 56-66, 1979.
4. **Janoff, A.S., Coughlin, R.T., Racine, F.M., McGroarty, E.J. and Vary, J.C.:** Use of electron spin resonance to study *Bacillus megaterium* spore membranes. *Biochem. Biophys. Res. Comm.* 89, 565-570, 1979.
5. **Janoff, A.S., Gupte, S. and McGroarty, E.J.:** Correlation between temperature range of growth and structural transitions in membranes and lipids of E. coli K12. *Biochim. Biophys. Acta* 598, 641-644, 1980.
6. **Janoff, A.S., Haug, A. and McGroarty, E.J.:** Anesthetics alter outer membrane architecture and temperature range of growth of *Escherichia coli* K12. *Biochem. Biophys. Res. Comm.* 95, 1364-1371, 1980.
7. **Janoff, A.S., Mazarow, D.L., Coughlin, R.T., Bowdler, A.J., Haug, A. and McGroarty, E.J.:** The modification of human erythrocyte membrane structure by membrane stabilizers: An electron spin resonance study. *Am. J. Hematol.* 10, 171-179, 1981.
8. **Janoff, A.S., Pringle, M.J. and Miller, K.W.:** Correlation of general anesthetic potency with solubility in membranes. *Biochim. Biophys. Acta* 649, 125-128, 1981.
9. **Renshaw, P., Janoff, A.S. and Miller, K.W.:** On the nature of dilute aqueous cholesterol suspensions. *J. Lipid Research* 24, 47-51, 1983.
10. **Janoff, A.S., Carpenter-Green, S., Weiner, A.L., Seibold, J., Weissmann, G. and Ostro, M.J.:** Novel liposome composition for a rapid colorimetric test for systemic lupus erythematosus. *Clin. Chem.* 29, 1587-1592, 1983.
11. **Madden, T.D., Bally, M.B., Hope, M.J., Cullis, P.R., Schieren, H.P. and Janoff, A.S.:** Protection of large unilamellar vesicles by trehalose during dehydration: Retention of vesicle contents. *Biochim. Biophys. Acta* 817, 67-74, 1985.
12. **Mayer, L.D., Hope, M.J., Cullis, P.R. and Janoff, A.S.:** Solute distributions and trapping efficiencies observed in freeze-thawed multilamellar vesicles. *Biochim. Biophys. Acta* 817, 193-196, 1985.
13. **Gruner, S.M., Lenk, R.P., Janoff, A.S. and Ostro, M.J.:** Novel multi-Lamellar lipid vesicles: comparison of physical characteristics of multilamellar liposomes (MLVs) and stable pleurilamellar vesicles (SPLVs). *Biochemistry* 24, 2833-2842, 1985.

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