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*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  
4<sup>th</sup> 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 27<sup>th</sup> 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, 32<sup>nd</sup> 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*)  
1<sup>st</sup> 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 TLC<sup>TM</sup>-D99 (Doxorubicin HCL Liposome Injection)  
1988 ABLC (Amphotericin B Lipid Complex)  
1990 TLC<sup>TM</sup>-G65 (Gentamicin Liposome Injection)  
1992 TLC<sup>TM</sup>-C53 (Liposomal Prostaglandin E<sub>1</sub> 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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