

# George H. Poste

## CURRICULUM VITAE

### Present Appointment:

George Poste, D.V.M., Ph.D, F.R.C.Path., F.Med.Sci, F.R.S.  
 Director and Chief Scientist, Complex Adaptive Systems Initiative  
 Regents' Professor and Del E. Webb Chair in Health Innovation  
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### Education, Qualifications and Honors:

1966	D.V.M.	University of Bristol, England (Veterinary Medicine) (Graduated first in class)
1966	M.R.C.V.S.	Member, Royal College of Veterinary Surgeons, London, England
1969	Ph.D.	University of Bristol, England (Virology)
1979	M.R.C. Path.	Membership, Royal College of Pathologists, London, England (Board Certification in Pathology)
1987	D.Sc.	University of Bristol, England. Distinguished Contributions to Research
1987	F.R.C.V.S.	Elected Fellow, Royal College of Veterinary Surgeons, London, England
1989	F.R.C. Path.	Elected Fellow, Royal College of Pathologists, London, England
1993	F.R.C.P. (Hon.)	Elected Fellow, Faculty of Pharmaceutical Medicine, Royal College of Physicians, London, England
1994	F.R.S.A.	Elected Fellow, Royal Society of Arts, Manufactures and Commerce, London, England
1995	LL.D. (Hon.)	University of Bristol, England
1997	F.R.S.	Elected Fellow, The Royal Society, London, England
1998	F.Med.Sci.	Elected Fellow, The Academy of Medical Sciences, London, England
1998	LL.D. (Hon.)	University of Dundee, Scotland
1999	C.B.E.	Commander of the Order of the British Empire, Honours List, H.M. Queen
1999	Honorary Fellow	University College London
2000	Member	Elected Member, Worshipful Company of Apothecaries, London
2004	Member	Council for Foreign Relations
2004	Award	Recipient of <i>Scientist of the Year</i> Award, R&D Magazine
2006	Regents Professor	Arizona State University
2006	Award	Einstein Award, Global Business Leadership Forum
2009	Award	Scrip Lifetime Achievement Award from Pharmaceutical Industry Leadership Forum
2013	Award	Recipient of the American Association of Clinical Chemistry (AACC) Outstanding Speaker Award
2015	Award	Listed in Scientific American 7 <sup>th</sup> Annual WorldVIEW Scorecard Top 100 most influential people in biotechnology. June 2015
2016	Award	2016 Arizona Bioindustry Association Pioneer Award for Lifetime Achievement

## Previous Appointments:

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2003 – 2009	Director, The Biodesign Institute, Arizona State University
2000 – 2003	Office of Secretary of Defense, Defense Science Board, Bioterrorism Task Force
2000 – 2003	Miscellaneous Board Responsibilities (see below)
1997 – 2000	Chief Science and Technology Officer, SmithKline Beecham, Philadelphia
1991 – 1997	President, Research and Development, SmithKline Beecham Pharmaceuticals, Philadelphia, PA
1989 – 1991	Executive Vice President, Research and Development, SmithKline Beecham Pharmaceuticals, Philadelphia, Pennsylvania
1988 – 1989	President, Research and Development, SmithKline & French Laboratories, Philadelphia, Pennsylvania
1987 – 1988	Vice President, Worldwide Research and Preclinical Development, SmithKline & French Laboratories, Philadelphia, Pennsylvania
1983 – 1986	Vice President, Research and Development, SmithKline & French Laboratories, Philadelphia, Pennsylvania
1980 – 1983	Vice President and Director of Research, SmithKline & French Laboratories, Philadelphia, Pennsylvania
1975 – 1980	Principal Cancer Research Scientist, Department of Experimental Pathology, Roswell Park Memorial Institute, Buffalo, New York and Professor, Department of Cell and Molecular Biology, State University of New York at Buffalo
1974	Senior Lecturer, Department of Virology, Royal Postgraduate Medical School, University of London, England
1972 – 1974	Associate Professor of Experimental Pathology, Roswell Park Memorial Institute, Buffalo, New York (On official leave of absence from the University of London)
1970 – 1972	Lecturer in Virology, Royal Postgraduate Medical School, London, England
1969 – 1970	Research Fellow, Department of Virology, Royal Postgraduate Medical School, University of London, England
1966 – 1969	Research Fellow and Assistant Lecturer, Department of Bacteriology, University of Bristol, England

## Board Memberships:

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1992 – 1999	Board Member, SmithKline Beecham (now GlaxoSmithKline)
2000 – 2003	Board Member, Illumina
2000 – 2003	Board Member, Maxygen
1997 – 2003	Chairman, diaDexus (acquired by VaxGen)
2000 – 2003	Chairman, Structural GenomiX (acquired by Eli Lilly)
2002 – 2005	Board Member, AdvancePCS (acquired by CVS-Caremark)
2002 – 2009	Chairman, Orchid Biosciences (acquired by Lapcorp.)
2003– present	Board Member, Monsanto
2004 – present	Board Member, Exelixis
2005 – present	Vice Chairman, Caris Life Sciences
2009 – present	Scientific Advisory Board, Synthetic Genomics Inc.
2013 – present	Member, Governing Board, The Bulletin of The Atomic Scientists
2014 – present	Scientific Advisory Board, Health Longevity, Inc.

## Professional and Civic Duties:

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1980 – 1983	Member, Pathology B Study Section, National Institute of Health
1980 – 1983	Member, Scientific Advisory Panel, Biological Response Modifiers Program, National Cancer Institute
1983 – 1986	Member, Committee du Direction, Centre Nationale de Recherche Scientifique, (CNRS), Republic of France
1984 – 1986	Member, Board of Governors, National Association for Biomedical Research
1985 – 1989	Trustee, Gordon Research Conferences
1985 – 1990	Member, UCLA Conferences Symposium Board
1986 – 1995	Member, Board of Directors, The Royal Society of Medicine Foundation, Inc.
1987 – 1989	Chairman, Research and Development Section, Pharmaceutical Manufacturers Association
1987 – 1992	Member, Board of Overseers of the School of Veterinary Medicine, University of Pennsylvania
1987 – 1993	Trustee, Philadelphia College of Pharmacy and Science
1988 – 1992	Member, Executive Council, International Society for Differentiation
1987 – 1993	Trustee, Philadelphia College of Pharmacy and Science
1988 – 1992	Member, Executive Council, International Society for Differentiation
1988 – 1992	Member, Scientific Advisory Board, Institute for Scientific Information, Philadelphia
1988 – 1992	Member, President's Council, M.D. Anderson Cancer Center, University of Texas
1989 – 1991	Member, Scientific Committee, Association of the British Pharmaceutical Industry (ABPI)
1992 – 1996	Trustee, The Keystone Center, Keystone, Colorado
1993 – 1997	Member, Board of Directors, Alliance for Aging Research
1993 – 1997	Member, Governor's Task Force on Economic Development, Commonwealth of Pennsylvania
1994 – 1997	Member, Research-Intensive Industries Task Force, Institute for the Future, Menlo Park, CA
1998 – 1999	Member, Advisory Committee on Global R&D, Council on Competitiveness, Washington, DC
1998 – 1999	Member, Standing Group on Health Technology, National Health Service (UK)
1998 – 1999	Member, National Health Service Executive Standing Group on Technology Assessment (UK)
1998 – 1999	Member, Ministerial Competitiveness Working Party on Innovation, Department of Trade and Industry (UK)
1997 – 1999	Member, Human Genetics Advisory Commission (UK)
1998 – 2000	Member, BP Technology Advisory Council
1998 – 2000	Member, Board of Medical Governors, World Economic Forum, Davos
1998 – 2001	Member, Rand Critical Technologies Task Force on the Hybrid Carbon Silicon Brain
1993 – 2003	Member, Governing Board, Beckman Center for Molecular and Genetic Medicine, Stanford University
2000 – 2009	Member, Defense Science Board, United States Department of Defense
2001 – 2005	Member, Threat Reduction Advisory Committee, United States Department of Defense
Current	Member, National Academy of Medicine, Forum on Microbial Threats
Current	Member, Expert Advisory Group. Analysis of the Influenza Vaccine Enterprise and Recommendations for the Future. The University of Minnesota, the Center for Infectious Disease Research and Policy (CIDRAP).
Current	Chair, Scientific Advisory Board, A. Alfred Taubman Medical Research Institute, University of Michigan (AATMRI)
Current	Member, Wellcome Trust Ebola Vaccine Task Force
Current	Member, Department of Defense Blue Ribbon Panel for Review of the Veterans Administration Healthcare System
Current	Advisor, BiologyNext Initiative, In-Q-Tel, Inc.

## Editorial Responsibilities for Professional Publications:

1985 – 1996	Founder and Member, Editorial Board, Cancer and Metastasis Reviews
1987 – 1995	Member, Editorial Board, Cancer Invasion and Metastasis
1987 – 1999	Member, Editorial Board, Drug Targeting and Delivery
1988 – 1995	Member, Editorial Board, Clinical and Experimental Metastasis
1989 – 1999	Member, Editorial Board, International Journal of Pharmaceutics
1990 – 1998	Member, Editorial Board, Journal of Drug Targeting
1992 – 1999	Member, Editorial Board, Advanced Drug Delivery Reviews
Current	Member, Editorial Board, Nature Bio/Technology
Current	Member, Editorial Board, Current Opinion in Biotechnology
Current	Member, Editorial Board, Expert Opinion on Investigational Drugs
Current	Member, Senior Advisory Panel, Current Drugs
Current	Member, Editorial Board, Pharmacogenomics
Current	Member, Editorial Board, Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science
Current	Member, Editorial Board, Expert Opinion on Molecular Diagnostics

## Club Memberships:

Current	Athenaeum, London
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## Published Works:

1. Poste, G. (1970) Increased growth of viruses in lymphocytes treated with heterologous antilymphocyte serum. *Transplantation* 10, 106-115.
2. Poste, G. (1970) Virus-induced polykaryocytosis and the mechanism of cell fusion. In: *Advances in Virus Research* (eds. F.B. Bang and K. Smith) Vol. 16, pp. 303-356, Academic Press, New York.
3. Poste, G. (1970) Cell surface changes in virus-induced cell fusion. 1. The importance of microvilli. *Microbios* 2, 227-239.
4. Poste, G. (1970) The measurement of cell surface glycoprotein coat materials by ellipsometry. 1. The techniques. *Cytobios* 2, 233-241.
5. Poste, G. and Greenham, L. W. (1970) The measurement of cell surface glycoprotein coat materials by ellipsometry. 2. Variation in coat thickness with cell type, tissue organization and culture conditions. *Cytobios* 2, 243-256.
6. Poste, G. (1970) Mixed-culture polykaryocytosis: A new form of cellular recognition behaviour. *Life Sciences* 9, 459-463.
7. Greenham, L. W. and Poste, G. (1971) The role of lysosomes in virus-induced cell fusion. 1. Cytochemical studies. *Microbios* 3, 97-104.

## Published Works:

8. Poste, G. (1971) The role of lysosomes in virus-induced cell fusion. 2. Modification of the cell surface. Microbios 3, 105-112.
9. Poste, G. (1971) Cell surface changes in virus-induced cell fusion. 2. Changes in cell coat thickness. Microbios 3, 55-61.
10. Poste, G. and Reeve, P. (1971) Formation of hybrid cells and heterokaryons by fusion of enucleated and nucleated cells. Nature New Biology 229, 123-125.
11. Poste, G. and Greenham, L. W. (1971) The measurement of cell surface glycoprotein coat materials by ellipsometry. 3. Synthesis of coat materials. Cytobios 3, 5-15.
12. Poste, G. (1971) Tissue dissociation with proteolytic enzymes: Adsorption and activity of enzymes at the cell surface. Exp. Cell Res. 65, 359-367.
13. Poste, G. (1971) Sub-lethal autolysis: Modification of the cell periphery by lysosomal enzymes. Exp. Cell Res. 67, 11-16.
14. Reeve, P. and Poste, G. (1971) Cell fusion by Newcastle disease virus in the absence of RNA synthesis. Nature New Biology 229, 1957-1958.
15. Poste, G. and Allison, A.C. (1971) The membrane fusion reaction: A theory. J. Theor. Biol. 32, 165-184.
16. Reeve, P. and Poste, G. (1971) Studies on the cytopathogenicity of Newcastle disease virus. I. Relation between virulence, polykaryocytosis and plaque size. J. Gen. Virol. 11, 17-24.
17. Reeve, P., Alexander, D.J., Pope, G. and Poste, G. (1971) Studies on the cytopathic effects of Newcastle disease virus. J. Gen. Virol. 11, 25-34.
18. Poste, G. and King, N. (1971) Isolation of a herpesvirus from the canine genital tract: Association with infertility, abortion and stillbirths. Veterinary Record 88, 229-233.
19. Poste, G. (1971) The growth and cytopathogenicity of virulent and attenuated strains of canine distemper virus in dog and ferret macrophages. J. Comp. Path. 81, 49-54.
20. Poste, G. and Reese, P. (1972) Inhibition of virus-induced cell fusion by local anaesthetics and phenothiazine tranquillizers. J. Gen. Virol. 16, 21-28. 21.
21. Poste, G. and Reeve, P. (1972) Inhibition of cell fusion by local anesthetics and tranquilizers. Exp. Cell Res. 72, 556-560.
22. Mallucci, L., Poste, G. and Wells, V. (1972) Synthesis of cell coat in normal and transformed cells. Nature New Biology 235, 222-223.
23. Poste, G. and Reeve, P. (1972) Agglutination of normal cells by plant lectins following infection with nononcogenic viruses. Nature New Biology 237, 113-114.
24. Poste, G. (1972) Enucleation of mammalian cells by cytochalasin B. I. Characterization of anucleate cells. Exp. Cell Res. 73, 273-286.
25. Apostolov, K. and Poste, G. (1972) Interaction of Sendai virus with human erythrocytes: A system for the study of membrane fusion. Microbios 6, 247-261.
26. Reeve, P., Poste, G., Alexander, D.J. and Pope, G. (1972) Studies on the cytopathic effects of Newcastle disease virus: Cell surface changes. J. Gen. Virol. 15, 219-225.
27. Poste, G. (1972) Mechanisms of virus-induced cell fusion. In: International Review of Cytology (eds. J.F. Danielli and K. Jeon) Vol. 33, pp. 157-252. Academic Press, New York.

## Published Works:

28. Poste, G. and Moss, C. (1972) The study of surface reactions in biological systems by ellipsometry. In: Progress in Surface Science (ed. S.G. Davison) Vol. 2, pp. 139-232. Pergamon Press, Oxford.
29. Poste, G. and Reeve, P. (1972) Enucleation of mammalian cells by cytochalasin B. II. Formation of hybrid cells and heterokaryons by fusion of anucleate and nucleated cells. Exp. Cell Res. 73, 287-294.
30. Poste, G. (1972) Changes in susceptibility of normal cells to agglutination by plant lectins following modification of cell coat material. Exp. Cell Res. 73, 319-328.
31. Poste, G., Waterson, A.P., Terry, G. and Alexander, D. J. and Reeve, P. (1972) Cell fusion by Newcastle disease virus. J. Gen. Virol. 16, 95-97.
32. Poste, G., Reeve, P., Alexander, D.J. and Terry, G. (1972) Studies on the cytopathogenicity of Newcastle disease virus: Effect of lectins on virus infected cells. J. Gen. Virol. 17, 81-89.
33. Poste, G., Reeve, P., Alexander, D.J. and Terry, G. (1972) Effect of plasma membrane lipid composition on cellular susceptibility to virus-induced cell fusion. J. Gen. Virol. 17, 133-136.
34. Poste, G. (1972) Characterization of a new canine herpes virus. Arch. Ges. Virusforsch 36, 147-157.
35. Poste, G., Lecatsas, G. and Apostolov, K. (1972) Electron microscope study of the morphogenesis of a new canine herpesvirus in dog kidney cell. Arch. Ges. Virusforsch 39, 317-329.
36. Poste, G., Hawkins, D.F. and Thomlinson, J. (1972) Herpesvirus hominis infection of the female genital tract. Obstetrics and Gynecology 40, 871-890.
37. Poste, G. (1972) Electron microscope study of nuclear and nucleolar changes in cells infected with canine distemper virus. Arch. Ges. Virusforsch 37, 183-190.
38. Alexander, D.J., Reeve, P. and Poste, G. (1973) Studies on the cytopathic effects of Newcastle disease virus: RNA synthesis in infected cells. J. Gen. Virol. 18, 369-373.
39. Lecatsas, G. and Poste, G. (1973) Mechanism of envelopment of herpesvirus by the nuclear envelope. Onderstepoort J. Vet. Res. 40, 71-72.
40. Poste, G. (1973) The synthesis of surface coat materials in normal and transformed cells. Exp. Cell Res. 77, 264-270.
41. Poste, G., Greenham, L.W., Mallucci, L., Reeve, P. and Alexander, D.J. (1973) The study of cellular "microexudates" by ellipsometry and their relationship to the cell coat. Exp. Cell Res. 78, 303-313.
42. Papahadjopoulos, D., Poste, G. and Schaeffer, B. (1973) Fusion of mammalian cells by unilamellar lipid vesicles: Influence of lipid surface charge, fluidity and cholesterol. Biochim. Biophys. Acta 323, 23-42.
43. Alexander, D.J., Hewlett, G., Reeve, P. and Poste, G. (1973) Studies on the cytopathic effects of Newcastle disease virus: The cytopathogenicity of strain Herts 33 in five cell types. J. Gen. Virol. 21, 323-337.
44. Poste, G. (1973) Anucleate mammalian cells: Applications in cell biology and virology. In: Methods in Cell Biology (ed. D.M. Prescott) Vol. 7, pp. 211-249. Academic Press, New York.
45. Poste, G. and Allison, A.C. (1973) Membrane fusion. Biochim. Biophys. Acta 300, 421-465.
46. Poste, G., Schaeffer, B., Reeve, P. and Alexander, D.J. (1974) Rescue of Simian virus 40 (SV40) from SV40-transformed cells by fusion with anucleate monkey cells and variation in the yield of virus rescued by fusion with replicating or nonreplicating monkey cells. Virology 50, 85-95.
47. Poste, G. and Reeve, P. (1974) Increased mobility and redistribution of concanavalin A receptors on cells infected with Newcastle disease virus. Nature 247, 469-471.
48. Papahadjopoulos, D., Poste, G., Schaeffer, B.E. and Vail, W.J. (1974) Membrane fusion and molecular segregation in phospholipid vesicles. Biochim. Biophys. Acta 352, 10-28.
49. Poste, G., Alexander, D.J., Reeve, P. and Hewlett, G. (1974) Modification of Newcastle disease virus release and cytopathogenicity in cells treated with plant lectins. J. Gen. Virol. 23, 255-270.

## Published Works:

50. Papahadjopoulos, D., Poste, G. and Mayhew, E. (1974) Cellular uptake of cyclic AMP captured within phospholipid vesicles and effect on cell growth behaviour. Biochim. Biophys. Acta 363, 404-418.
51. Reeve, P., Hewlett, G., Watkins, H., Alexander, D.J. and Poste, G. (1974) Virus-induced cell fusion enhanced by phytohaemagglutinin. Nature 249, 355-356.
52. Papahadjopoulos, D., Mayhew, E., Poste, G., Smith, S. and Vail, W.J. (1974) Incorporation of lipid vesicles by mammalian cells provides a potential method for modifying cell behavior. Nature 252, 163-166.
53. Mayhew, E., Poste, G., Cowden, M., Tolson, N. and Maslow, D. (1974) Cellular binding of <sup>3</sup>H-cytochalasin B. J. Cell Physiol. 84, 373-382.
54. Papahadjopoulos, D., Poste, G. and Mayhew, E. (1975) Interaction between cells, liposomes and micelles. Biochemical Society Transactions 3, 606-608.
55. Weiss, L., Poste, G., MacKearnin, A. and Willett, K. (1975) Growth of mammalian cells on substrates coated with cellular microexudates. I. Effect on cell growth at low population densities. J. Cell Biol. 64, 135-145.
56. Poste, G. (1975) Production of macrophage migration inhibitory factor(s) (MIF) by virus-transformed cells. Exp. Cell Res. 92, 283-290.
57. Poste, G. (1975) Production of a serine-protease with macrophage migration inhibitory factor activity by virus-transformed cells and human tumor cell lines. Cancer Research 35, 2558-2566.
58. Poste, G., Papahadjopoulos, D., Jacobson, K. and Vail, W.J. (1975) Local anaesthetics increase susceptibility of untransformed cells to agglutination by concanavalin A. Nature 253, 552-554.
59. Papahadjopoulos, D., Vail, W.J., Jacobson, K. and Poste, G. (1975) Cochleate lipid cylinders: Formation by fusion of unilamellar lipid vesicles. Biochim. Biophys. Acta 394, 483-491.
60. Papahadjopoulos, D., Jacobson, K., Poste, G. and Shepard, G. (1975) Effects of local anesthetics on membrane properties. I. Changes in the fluidity of phospholipid bilayers. Biochim. Biophys. Acta 394, 504-519.
61. Poste, G., Papahadjopoulos, D., Jacobson, K. and Vail, W.J. (1975) Effects of local anesthetics on membrane properties. II. Enhancement of the susceptibility of mammalian cells to agglutination by plant lectins. Biochim. Biophys. Acta 394, 520-539.
62. Papahadjopoulos, D. and Poste, G. (1975) Calcium-induced phase separation and fusion in phospholipid membranes. Biophys. J. 15, 945-948.
63. Poste, G., Papahadjopoulos, D. and Nicolson, G.L. (1975) Local anesthetics affect transmembrane cytoskeletal control of mobility and distribution of cell surface receptors. Proc. Nat. Acad. Sci. USA 72, 4430-4434.
64. Weiss, L., Subject, J.R. and Poste, G. (1975) Some electrical properties of the peripheries of murine 3T3 cells with respect to viral transformation and reversion. Int. J. Cancer 16, 914-921.
65. Poste, G. (1975) Interaction of concanavalin A with the surface of virus-infected cells. In: Concanavalin A. (eds. T.K. Chowdhury and A.K. Weiss) pp. 117-152. Plenum Press, New York.
66. Poste, G. and Waterson, A.P. (1975) Herpesvirus infection and cervical cancer. In: Gynaecological Malignancy. (eds. M.G. Brush and R.W. Taylor) pp. 87-108. Balliere Tindall, London.
67. Poste, G. and Waterson, A.P. (1975) Cell fusion by Newcastle disease virus. In: Negative Strand Viruses. (eds. B.W.J. Mahy and R.D. Barry) Vol. 2, pp. 905-922. Academic Press, London.
68. Nicolson, G. L., Smith, J. R. and Poste, G. (1976) Effects of local anesthetics on cell morphology and membrane-associated cytoskeletal organization in BALB/3T3 cells. J. Cell Biol. 68, 395-402.

## Published Works:

69. Poste, G. and Nicolson, G. L. (1976) Calcium ionophores A23187 and X537A affect cell agglutination by lectins and capping of lymphocyte surface immunoglobulins. Biochim. Biophys. Acta 426, 148-155.
70. Jacobson, K., Wu, J. and Poste, G. (1976) Measurement of the translational mobility of concanavalin A in glycerol-saline solutions and on the cell surface by fluorescence recovery after photobleaching. Biochim. Biophys. Acta 433, 215-222.
71. Poste, G. and Papahadjopoulos, D. (1976) Lipid vesicles as carriers for introducing materials into cultured cells: Influence of vesicle lipid composition on mechanism(s) of vesicle incorporation into cells. Proc. Nat. Acad. Sci. USA 73, 1603-1607.
72. Poste, G. and Papahadjopoulos, D. (1976) Drug-containing lipid vesicles render drug-resistant tumour cells sensitive to actinomycin D. Nature 261, 699-701.
73. Jacobson, K., Derzko, Z., Wu, E.-S., Hou, Y. and Poste, G. (1976) Measurement of the lateral mobility of cell surface components in single, living cells by fluorescence recovery after photobleaching. J. Supramolec. Structure 5, 565-576.
74. Papahadjopoulos, D., Hui, S., Vail, W.J. and Poste, G. (1976) Studies on membrane fusion. I. Interactions of pure phospholipid membranes and the effect of myristic acid, lysolecithin, proteins and dimethylsulfoxide. Biochim. Biophys. Acta 448, 245-264.
75. Papahadjopoulos, D., Vail, W.J., Pangborn, W.A. and Poste, G. (1976) Studies on membrane fusion. II. Induction of fusion in pure phospholipid membranes by calcium ions and other divalent metals. Biochim. Biophys. Acta 448, 265-283.
76. Papahadjopoulos, D., Poste, G., Vail, W.J. and Biedler, J.L. (1976) Use of lipid vesicles as carriers to introduce antinomycin D into resistant tumor cells. Cancer Research 36, 2988-2994.
77. Weiss, L. and Poste, G. (1976) The tumor cell periphery. In: Scientific Foundations of Oncology. (eds. T. Symington and R.L. Carter) pp. 25-35. Heinemann, London.
78. Poste, G. and Weiss, L. (1976) Some considerations on cell surface alterations in malignancy. In: Fundamental Aspects of Metastasis. (ed. L. Weiss) pp. 25-47. Elsevier/North-Holland, Amsterdam.
79. Nicolson, G. L. and Poste, G. (1976) Medical Progress. The cancer cell: Dynamic aspects and modifications in cell-surface organization. (First of Two Parts) New England J. Med. 295, 197-203.
80. Nicolson, G. L. and Poste, G. (1976) Medical Progress. The cancer cell: Dynamic aspects and modifications in cell-surface organization. (Second of Two Parts) New England J. Med. 295, 253-258.
81. Poste, G., Alexander, D. and Reeve, P. (1976) Enhancement of virus-induced cell fusion by phytohemagglutinin. In: Methods in Cell Biology. (ed. D.M. Prescott) Vol. 14, pp. 1-10. Academic Press, New York.
82. Poste, G. and Papahadjopoulos, D. (1976) Fusion of mammalian cells by lipid vesicles. In: Methods in Cell Biology. (ed. D.M. Prescott) Vol. 14, pp. 23-32. Academic Press, New York.
83. Poste, G., Papahadjopoulos, D. and Vail, W.J. (1976) Lipid vesicles as carriers for introducing biologically active materials into cells. In: Methods in Cell Biology. (ed. D.M. Prescott) Vol. 14, pp. 33-71. Academic Press, New York.
84. Poste, G. (1976) Changes in cell surface membranes associated with malignant transformation. In: Biological Handbooks: Cell Biology. (eds. P.L. Altman and D.D. Katz) Vol. 1, pp. 134-138. Federation of American Societies for Experimental Biology, Bethesda, Maryland.
85. Poste, G. and Nicolson, G.L. (1976) Editors. Cell Surface Reviews, Volume 1. The Cell Surface in Animal Embryogenesis and Development. Elsevier/North-Holland, Amsterdam. 766 pages.



## Published Works:

86. Nicolson, G. L. and Poste, G. (1976) Cell shape changes and transmembrane receptor uncoupling induced by tertiary amine local anesthetics. J. Supramolecular Structure 5, 65-72.
87. Papahadjopoulos, D., Vail, W.J., Newton, C., Nir, S., Jacobson, K., Poste, G. and Lazo, R. (1977) Studies on membrane fusion. III. The role of calcium-induced phase changes. Biochim. Biophys. Acta 465, 579-598.
88. Poste, G. (1977) The cell surface and metastasis. In: Cancer Invasion and Metastasis: Biologic Mechanisms and Therapy. (ed. S.B. Day) pp. 19-47. Raven Press, New York.
89. Nicolson, G.L., Giotta, G., Lotan, R., Neri, A. and Poste, G. (1977) Modifications in transformed and malignant tumor cells. In: International Cell Biology. (eds. B.R. Brinkley and K.R. Porter) pp. 138-148. Rockefeller University Press, New York.
90. Nicolson, G.L., Poste, G. and Ji, J.H. (1977) The dynamics of cell membrane organization. In: Dynamic Aspects of Cell Surface Organization. (eds. G. Poste and G.L. Nicolson) Cell Surface Reviews, Vol. 3, pp. 1-73. Elsevier/North-Holland, Amsterdam.
91. Poste, G. and Nicolson, G.L. (1977) Editors. Cell Surface Reviews, Volume 2. Virus Infection and the Cell Surface. Elsevier/North-Holland, Amsterdam. 350 pages.
92. Poste, G. and Nicolson, G.L. (1977) Editors. Cell Surface Reviews, Volume 3. Dynamic Aspects of Cell Surface Organization. Elsevier/North-Holland, Amsterdam. 750 pages.
93. Poste, G. and Nicolson, G.L. (1977) Editors. Cell Surface Reviews, Volume 4. The Synthesis, Assembly and Turnover of Cell Surface Components. Elsevier/North-Holland, Amsterdam. 883 pages.
94. Fidler, I.J., Roblin, R.O. and Poste, G. (1978) In vitro tumoricidal activity of macrophages against virus-transformed lines with temperature-dependent transformed phenotypic characteristics. Cell. Immunol. 38, 131-146.
95. Poste, G., Porter, C.W. and Papahadjopoulos, D. (1978) Identification of a potential artifact in the use of electron microscope autoradiography to localize saturated phospholipids in cells. Biochim. Biophys. Acta 510, 256-263.
96. Nicolson, G.L. and Poste, G. (1978) Mechanism of resistance to ricin toxin in selected mouse lymphoma cell lines. J. Supramolec. Structure 8, 235-245.
97. Poste, G. and Papahadjopoulos, D. (1978) The influence of vesicle membrane properties on the interaction of lipid vesicles with cultured cells. Ann. N.Y. Acad. Sci. 308, 164-184.
98. Poste, G. and Pasternak, C.A. (1978) Virus-induced cell fusion. In: Membrane Fusion. (eds. G. Poste and G.L. Nicolson) Cell Surface Reviews, Vol. 5, pp. 305-367. Elsevier/North-Holland, Amsterdam.
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## Recent Presentations 2010 onwards:

(See <http://www.casi.asu.edu/presentations/> for full presentations)

1. Poste, G. Cancer as a [Complex Adaptive System: Cancer Progression, Evolutionary Dynamics and Implications for Treatment](#). ASU BIO 302 Course: CANCER: Mother of All Diseases. (Sep 13 2017)
2. Poste, G. [The Complex Strategic Landscape for Precision Medicine. Keynote Address](#). Precision Medicine Leaders Summit. San Diego, California (Aug 22 2017)
3. Poste, G. [Navigating the Multi-Dimensional Complexity of Drug Pricing. CBI's Reimbursement and Access conference](#). Philadelphia, Pennsylvania (Aug 17 2017)
4. G. Poste. [Big Data and Healthcare](#). Fifth Annual Conference on Governance of Emerging Technologies: Law, Policy and Ethics. Phoenix, Arizona (May 18 2017)
5. G. Poste. [Immunophenotyping to Differentiate Responder and Non-responder Patients in Cancer Immunotherapy](#). P4: Biomarkers for Patient Selection (06) @ CHI's13th Annual Biomarker World Congress. Philadelphia, Pennsylvania (May 3 2017)
6. G. Poste. [Understanding the Design Principles and Dynamics of Complex Adaptive Systems. Presentation to Lynx Global Intelligence](#). Arizona State University (Apr 10 2017)
7. G. Poste. [Biosecurity: A Multi-Dimensional Challenge of Escalating Complexity and Urgency](#). Stanford University (Mar 8 2017)
8. G. Poste. [The Strategic Landscape for Healthcare: Balancing Technological Innovation and the Cost of Care](#). Keynote Address for IEEE Phoenix Section, Annual Banquet. Phoenix, Arizona (Feb 11 2017)
9. G. Poste. [Navigating the Multi-Dimensional Complexity of Drug Pricing Policies](#). The National Academies of Sciences, Engineering and Medicine. Committee on Ensuring Patient Access to Affordable Drug Therapies Meeting. Stanford Law School, California (Jan 23 2017)
10. G. Poste. [PanOmics, Informatics, Economics, Ethics and Politics: The Five Forces Shaping the Evolution of Precision Medicine](#). The 4<sup>th</sup> Annual Omenn Lecture. University of Michigan Medical School. (Jan 18 2017)
11. G. Poste. [The Evolution of Precision Oncology](#). 2nd Annual West Cancer Center Oncology Symposium. Memphis, Tennessee (Nov 18 2016)
12. G. Poste. [Redesigned: Life in the Genetically Engineered Society of the Near Future](#). Vi Lecture Series. Grayhawk, Scottsdale, Arizona (Oct 27 2016)
13. G. Poste. [Cancer as a Complex Adaptive System: cancer progression, evolutionary dynamics and implications for treatment](#). ASU course BIO 302. (Oct 26 2016)
14. G. Poste. [Combating Agent X: Accelerating Global Vaccine Production Against New Pandemic Threats](#). Singularity University. Exponential Medicine 2016 Conference. San Diego, California (Oct 9 2016)
15. G. Poste. [Security, Sensors, Surveillance, Smart Machines and Supercomputers](#). TASER International. Scottsdale, Arizona (Jun 6 2016)
16. G. Poste. [Synthetic Biology and Dual-Use Research of Concern. Fourth Annual Conference on Governance of Emerging Technologies: Law, Policy and Ethics](#). Phoenix, Arizona (May 25 2016)
17. G. Poste. [Big Data and the Evolution of Precision Medicine. Cambridge 2nd Annual Big Data Biomarkers and Diagnostics World Congress. Presentation at Cambridge Second Annual Big Data, Biomarkers and Diagnostics World Congress](#). Philadelphia, Pennsylvania (May 17 2016)
18. G. Poste. [Managing the Data Deluge: Critical Issues in the Integration and Analysis Of Massive Data in Global Public Health. National Academies Workshop on Big Data and Analysis for Infectious Disease Research, Operations and Policy](#). Pan American Health Organization, Washington, DC (May 11 2016)

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19. G. Poste. [Urbanization and Global Biosecurity: A Dangerously Neglected Dimension in DOD Doctrine and National Security Policy](#). United States Army. Mad Scientist 2016 Conference: Megacities and Dense Urban Areas in 2025 and Beyond. Arizona State University, Tempe, Arizona (Apr 21 2016 - Apr 22 2016)
20. G. Poste. Emerging Infectious Diseases: Escalating Risk and a Dangerous Lack of Preparedness. New America's Future of War Annual Conference. Washington, DC (March 10, 2016)
21. G. Poste. [The Next Era in Immuno-Oncology](#). Keynote Speaker Presentation at Community Oncology Alliance Annual Meeting. Orlando, Florida (Apr 15 2016)
22. G. Poste. [Big Data and the Evolution of Precision Medicine](#). G2 Annual Lab Revolution Conference. Chandler, Arizona, (Apr 8 2016)
23. G. Poste. [Redesigned: Life in the Genetically Engineered Society of the Near Future](#). Wise Guise Lunch Presentation. Scottsdale, Arizona (Apr 1 2016)
24. G. Poste. [Pricing of Therapeutics: A Complex, Multidimensional Matrix. Symposium on Pharmaceutical Pricing and Marketing: Markets Versus Regulation](#). Arizona State University, Tempe, Arizona (Jan 16 2016)
25. G. Poste. [The Evolution of Precision Oncology: Biological Complexity, Big Data and Big Price Tag](#). Keynote Address Innovations in Cancer Prevention and Research Conference. The Cancer Prevention and Research Institute of Texas (CPRIT) (Nov 10 2015)
26. G. Poste. [Big Data and the Evolution of Precision Medicine](#). Keynote Address Michigan Institute for Data Science (MIDAS) Launch Symposium. University of Michigan, Ann Arbor, MI (Oct 6 2015)
27. G. Poste. [Molecular Diagnostics: Multiplexity, Complexity and Ambiguity](#). 4th Annual CMS: Arizona State University Workshop on Molecular Diagnostics, Reimbursement and Regulation. Scottsdale, Arizona (Apr 17 2015)
28. G. Poste. [Big Data and Healthcare. AAAS Annual Meeting: Panel Presentation: Big Data-Challenges and Social Impacts](#). San Jose, California (Feb 13 2015)
29. G. Poste. [The Accelerating Trajectory of The Life Sciences: Implications for Health, Industrial Innovation and National Security. Keynote Presentation In-Q-Tel CEO Summit](#). Monterey, California (Feb 4 2015)
30. G. Poste. [From the Quest for Fire to GATTACA: Systems and Synthetic Biology as the Next Wave of Technology Disruption in the Anthropocene. The Realities & Possibilities of Systems Biology. Uniformed Services University of the Health Sciences](#). Bethesda, Maryland (Nov 3 2014)
31. George Poste. [The Need for Critical Reassessment of Current Strategies for Cancer Therapy](#). BioConference Live on Cancer: Research, Discovery and Therapeutics. Virtual Presentation (Oct 17 2013)
32. George Poste. [Confronting the Cancer Challenge: The Need for New Diagnostic and Treatment Strategies](#). Clarity Foundation Personalized Medicine in Oncology Series. Moores Cancer Center, La Jolla, California (Oct 8 2013)
33. George Poste. [Outpacing Infectious Diseases: Dynamic Foes and The Need for Innovation in Diagnostics, Drugs and Vaccines](#). ASU Biochemistry course BCH462. Tempe, Arizona (Sep 10 2013)
34. George Poste. [Opening New Investigative Directions for GBM: Confronting Complexity. Glioblastoma Multiforme \(GBM\): A Think Tank to Re-Think GBM and Setting a New Course](#). Scottsdale, Arizona (Aug 27 2013)
35. George Poste. [The Acceleration, Convergence and Globalization of Advanced Technologies: Escalating Complexity, Disruptive Change and New Networked Organizations. 3<sup>rd</sup> Annual Conference on Governance of Emerging Technologies: Law, Policy and Ethics](#). West Wild Horse Pass Blvd, Chandler, Arizona (May 21 2013)
36. George Poste. [Transformational Technologies in Biomedical R&D and Healthcare Delivery](#). Pharmaceutical Industry. Hever R&D Forum 18. Lansdowne, Virginia (May 4 2013)
37. George Poste. [Molecular Medicine and Digital Medicine: Disruptive Technologies in the Future Evolution of Healthcare](#). "Global Wireless Communications – Future Directions" E-health and Telecom in Healthcare IEEE WTS Conference. Chandler, Arizona (Apr 17 2013)
38. George Poste. [Genome Sequencing: A Status Report](#). Whole Genome Sequencing: Regulatory and Reimbursement Issues. Center for Medicaid and Medicare Services. Scottsdale, Arizona (Apr 12 2013)
39. George Poste. [Biosecurity: Enhancing Security in an Increasingly Complex World](#). Threat Preparation for the 21st Century: Association of University Research Parks Annual Meeting. Tempe, Arizona (Mar 6 2013)

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40. George Poste. [Technology and Molecular Medicine: A Developer's Perspective](#). University of Chicago Public Health Law Conference: Technology and the Rising Cost of Health Care - A Paradigm Shift. Arizona State University, Tempe, Arizona (Mar 2 2013)
41. George Poste. [Personalized \(Precision\) Medicine: Science, Law and Health Policy. Keynote Address](#). From Bench to Society: Law and Ethics at the Frontier of Genomic Technology. UC Hastings College of the Law, San Francisco (Feb 8 2013)
42. Poste, G. [A Status Report on Biomarkers: biomarkers that are not; standards that are forgot; and the need to transform the system we've got!](#) National Biomarkers Development Alliance (NBDA). JW Marriott Camelback Inn, Scottsdale, Arizona (Dec 13 2012)
43. Poste, G. [Keynote Address: Computational Challenges and Opportunities in Personalized Medicine](#). INFORMS Keynote Address: Annual Meeting 2012. Phoenix, Arizona (Oct 14 2012)
44. Poste, G. [Keynote Presentation: Integrative Omics \(iOmics\) and the Evolution of Molecular Medicine](#). 8th Annual Burrill Personalized Medicine Meeting. San Francisco, California (Sep 13 2012)
45. Poste, G. [Presentation at DHS-DOD Meeting](#). Policy Implications of Digital Fabrication: 3D Printing and Beyond. Schaefer Institute, Washington, D. C. (Jul 26 2012)
46. George Poste. [Poste G. New Value Propositions in Healthcare. Burrill Meeting Cavallo Point](#). Beyond the Genome: Opportunities in Large Scale Sequencing. Cavallo Point Lodge, California (Apr 17 2012)
47. Poste, G. [A Systems Based Approach to Cancer Informatics](#). Institute of Medicine, National Cancer Policy Forum Workshop on "Informatics Needs and Challenges in Cancer Research" Keck Center of the National Academies. Washington, D. C. (Feb 28 2012)
48. Poste, G. ["It from Bits": Managing Massive Data as a Critical Challenge For Biomedical R&D and Healthcare Delivery](#). The Burrill Biotech 24th Annual CEO Meeting. Laguna Beach, California (Oct 17 2011 - Oct 18 2011)
49. Poste, G. [The Increasing Importance of the Life Sciences in National Security](#). FDA MCMII Lecture Series. Silver Spring, Maryland (Oct 6 2011)
50. Poste, G. [The Need for Urgent Reform in the Organization and Funding of Cancer Research and Clinical Trials](#). NCI Workshop. Arizona State University, Tempe, Arizona (May 19 2011 - May 20 2011)
51. Poste, G. [The Evolution of Personalized Medicine: Opportunities and Challenges](#). Keynote Presentation: The Institute for Systems Biology International Symposium: Systems Biology and P4 Medicine. The Institute for Systems Biology, Seattle, Washington (May 15 2011 - May 16 2011)
52. Poste, G. [Synthetic Biology: Mapping the Design Principles of Biological Systems and the Rise of Biomimetic Engineering](#). Six Academy Synthetic Biology Symposium. The Royal Society, London (Apr 13 2011)
53. Poste, G. [Promise, Peril, Productivity and Politics: The Strategic Environment for Healthcare R&D](#). Burrill & Company 2011 Annual Limited Partners and Advisory Board Meeting. Park City, UT (Apr 6 2011)
54. Poste, G. [Biospecimens: A Critical Resource for Advances in Molecular Diagnostics, Imaging and Therapeutics](#). National Institutes of Health, Bethesda, Maryland (Mar 28 2011)
55. Poste, G. [The Impact of the Life Sciences on National Security. Presentation at: Preserving National Security - The Growing Role of the Life Sciences](#). UPMC Center for Biosecurity. Washington, D.C. (Mar 3 2011)
56. Poste, G. [The Evolution of Personalized Medicine: Opportunities and Challenges](#). 27th Montreux Symposium on LC/MS. Montreux, Switzerland (Nov 10 2010)
57. Poste, G. [Genomics, Demographics, Epidemics, Economics and Ethics: The Complex Forces Shaping Healthcare](#). First Constantin Spiegelfeld Lecture. Research Center for Molecular Medicine Austrian Academy of Sciences, Vienna (Nov 8 2010)
58. Poste, G. [Sustaining Healthcare Innovation in an Era of Constraint](#). The 6th Annual Burrill Personalized Medicine Meeting. Burlingame, California (Sep 27 2010)
59. Poste, G. [mHealth: The Emergence of a New Ecosystem for Healthcare Delivery, Global Public Health and National Security](#). World Economic Forum Event on Mobile Health (mHealth). La Jolla, California (Jun 28 2010)
60. Poste, G. [Bugs, Bits and Engineering Bioforms: Good and Bad Applications and Actors](#). New America Foundation Symposium: Waring Futures: Transforming Today's Military. The Army and Navy Club, Washington, D.C. (May 24 2010)
61. Poste, G. [Challenges and Opportunities in Cancer Detection and Diagnosis: The Need for Systems-Based Approaches For Successful Validation of Biomarkers](#). NCI Cancer Early Detection Stakeholders Meeting. Rockville, Maryland (May 21 2010)
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63. Poste, G. [The Need to Build Holistic, Personalized Healthcare Delivery Systems](#). Poste, G. Vision 2020: The Need to Build Holistic, Personalized Healthcare Delivery Systems. International Health Forum. Munich (May 7 2010)
64. Poste, G. [The Convergence of Clinical Medicine, Engineering and Computing: New Horizons in Healthcare Delivery](#). The John F. Wilkinson Memorial Lecture. Manchester Medical Society, United Kingdom (May 5 2010)
65. Poste, G. [Technology Acceleration and Convergence: The Evolution of Novel Platforms for Improved Healthcare Delivery](#). Burrill LP & Advisory Board Meeting. Cavallo Point, California (Apr 20 2010)
66. Poste, G. [Poste, G. The Rapidly Changing International Landscape for Advanced Research Technologies: Implications for Law Enforcement, National Security and Industrial Espionage](#). Keynote Presentation at The FBI Campus Liaison Initiative Conference. Tempe, Arizona (Mar 17 2010)
67. Poste, G. [Addressing Technological Challenges and the Development of New Cancer Interventions](#). NCI Conference. Rethinking the Role of Infectious Agents in Cancer. Pentagon City, Virginia (Mar 16 2010)