

CURRICULUM VITAE

Name: Stuart A. Aaronson
Date and Place of Birth: February 28, 1942, Mt. Clemens, Michigan
Citizenship: U.S.A.
Marital Status: Married, three children

Education and Training:

1959-1962 B.S. (Chemistry; summa cum laude), University of California, Berkeley
1962-1966 M.D., University of California Medical School, San Francisco
1965-1966 Fellowship, Dept. of Biochemistry, University of Cambridge, Cambridge, United Kingdom
1966-1967 Intern, Medicine, Moffitt Hospital, San Francisco

Brief Chronology of Employment:

1967-1969 Staff Associate, Viral Carcinogenesis Branch, National Cancer Institute, Bethesda, MD
1969-1970 Senior Staff Fellow, Viral Carcinogenesis Branch
1970-1977 Head, Molecular Biology Section, Viral Carcinogenesis Branch
1977-1993 Chief, Laboratory of Cellular and Molecular Biology, National Cancer Institute, Bethesda, Maryland
1993-2004 Director, Ruttenberg Cancer Center, Mount Sinai Medical Center, New York, NY
1993-present Jane B. and Jack R. Aron, Professor of Neoplastic Diseases
2004-present Chairman, Department of Oncological Sciences, Mount Sinai Medical Center, New York, NY

Medical Licenses

New York
Virginia

Honors and Awards:

1962 Phi Beta Kappa
1966 Alpha Omega Alpha
1982 Rhoads Memorial Award
1982 PHS Meritorious Service Medal
1989 Paul Ehrlich Award
1989 PHS Distinguished Service Medal
1990 Milken Award
1991 Chirone Prize
1991 Harvey Lecture
1991 Wadsworth Memorial Foundation Award

Societies:

American Society for Microbiology
American Association for the Advancement of Science
Society for Experimental Biology and Medicine
American Association for Cancer Research, Inc.
American Society for Virology, Inc.

Memberships and Affiliations:

1975-1978	Member, Viral Cancer Program Coordinating Committee
1975-1976	Ad Hoc Member, Experimental Virology Study Section, NIH
1975-1978	Member, Viral Oncology Scientific Advisory Committee for FCRC
1976-1980	Member, Experimental Virology Study Section, NIH
1977-present	Member, Editorial Board, International Journal of Cancer
1977-1986	Associate Editor, Journal of the National Cancer Institute
1980-1985	Editorial Advisory Board, Biochimica et Biophysica Acta (BBA Reviews on Cancer)
1981-present	Associate Editor, Cancer Research
1983-1992	Executive Committee, Duke Comprehensive Center, Duke University Medical Center
1984	Mott Selection Committee, General Motors Cancer Research Foundation
1984-1990	Advisory Committee, Maimonides Conferences on Cancer Research
1984-1990	Editorial Board, Virus Research
1984-1987	Scientific Advisory Committee, American Cancer Society
1985-1987	External Scientific Review Committee, Comprehensive Center, The University of Alabama in Birmingham
1985-present	Editorial Advisory Board, Cancer and Metastasis Reviews
1985-present	Editorial Board, Cancer Reviews
1985-1989	Councillor, Society for Experimental Biology and Medicine
1985-1990	Extramural Advisory Board, Cancer Center, The University of Arizona
1986	Program Chairman, American Association of Cancer Research
1986	Co-organizer, Princess Takamatsu Symposium
1986-present	Guest Editor, Japanese Journal of Cancer Research (Gann)
1986-present	Editorial Board, Environmental and Occupational Health Sciences
1986-1987	Member, Advisory Committee, American Type Culture Collection
1987-1989	Editorial Advisory Board, Molecular Endocrinology
1987-present	Editorial Board, Oncogene
1988-1989	Advisory Editorial Board, ISI Atlas of Science: Biochemistry
1988-1994	Member, Blood Services Scientific Council, American Red Cross
1989-1991	Editorial Board, Cancer Communications
1989-1992	Editorial Board, The New Biologist
1989	Visiting Professor, University of Texas, San Antonio
1990-2002	Advisory Board, BBA Reviews on Cancer, Biochimica et Biophysica Acta

1990	General Motors Visiting Professor, University of Wisconsin-Madison Medical School
1990	Visiting Professor, Jonsson Comprehensive Cancer Center, University of California, Los Angeles
1992-present	Editorial Board, Intl. Journal of Oncology
1991-2003	Editorial Board, Oncology Research
1992-present	Scientific Advisory Board, - Georgetown Univ - Breast Ca SPORE
1993-1995	Editorial Advisory Board, Molecular Aspects of Medicine
1994-present	International Advisory Board, Tumori
1995-1996	Vice President, Harvey Society
1996-1997	President, Harvey Society
1997-1998	Counselor, Harvey Society
1998-present	Member, Public Relations and Communications Committee, AACR
1998-present	Member, The National Neurofibromatosis Foundation Research Advisory Board
1998-present	Member, External Scientific Advisory Committee, Kimmel Cancer Center, Thomas Jefferson University
2003-present	Editorial Board, Cancer Genomics and Proteomics (CGP)

Research Interests:

Molecular genetics of cancer; retrovirology; cellular growth regulation by growth factors and their receptors.

Patents:

More than 50 patent applications issued or pending.

Present Address:

40 East 94th Street, Apt. 23B
New York, NY 10128

Research Support

Active

R01 CA71672-07 Aaronson (PI) 07/01/1997-06/30/2005
NIH/NCI \$225,000
Cloning and Analysis of Wnt Receptors in Breast Cancer

Aims of this include exploration of novel functions uncovered by us for a prototype Wnt receptor, Hfz1, structure/function analysis for this and other fz's, and immunoaffinity purification and identification of proteins in the receptor complex. Our goals would be to use this knowledge to investigate novel mechanisms of Wnt activation in tumor cells. A second major aim would be to elucidate mechanisms of transformation by Wnt and/or increase β -catenin levels through investigation of alterations induced in normal cells. The functions of Wnt target genes in inducing aspects of the transformed phenotype in vitro and in vivo would be explored, and we would search for novel effectors by application of expression array analysis. The final aim would be to characterize new mechanisms of Wnt signaling activation in breast and other human tumor cells. This aim is supported by our identification of human tumor cell lines with elevated uncomplexed β -catenin levels in the absence of genetic lesions affecting APC or β -catenin. Wnt inhibitors, also characterized by us, would be utilized in efforts to establish evidence of autocrine transforming or other novel mechanisms of Wnt activation.

T32 CA78207-05 Aaronson (PI) 07/20/1999-04/30/2004
NIH/NCI \$165,604
Training Program in Cancer Biology

This training program combines research in the biology of cancer with a curriculum that challenges trainees to consider how their research may be translated into improvements in the diagnosis and treatment of cancer. The trainees will work closely with faculty who will be drawn from throughout Mount Sinai ensuring that this research is both comprehensive in scope and related to practical issues faced by physicians in preventing and treating cancer.

P01 CA80058-04 Aaronson (PI) 02/16/2000-01/31/2005
NIH/NCI \$160,111
P53 Regulators and Effectors

Subproject: Project 1

This grant is specifically directed at elucidating the role of MAPK activation in p53 growth arrest/senescence, the mechanisms responsible and the effector pathways involved. The long-term goals of this project are to understand how MAPK activation contributes to p53 induced permanent growth arrest/senescence as a means of developing new approaches to therapy by targeting this terminal differentiation program in tumor cells.

Subproject: Administrative Core

The Administrative Core provides centralized services that support the Principal Investigator, Project Leaders, and Core Resource Directors of the program project, and is responsible for

continuity, coordination and oversight of the projects and support cores of the Program project. The primary functions of the Core include the following: (a) provide direction and overall management of the Program; (b) foster communication and integration of the research projects and the cores by conducting regular scientific meetings of PPG investigators; (c) oversee and coordinate the efforts of the support cores by oversight committees and monitoring efficient usage; (d) monitor and track all expenditures of the PPG and ensure accurate allocation of funds; (e) provide logistics support for other aspects including personnel actions, IRB documents, record keeping, progress reports; (f) arrange and coordinate meetings of the PPG internal and external scientific advisory boards, including travel.

N/A Aaronson (PI) 07/01/1997-06/30/2005
Sharp Foundation \$666,667
Melanoma Gene Discovery and Translation Research

This is a consortium grant involving multiple laboratory and clinical investigators within Mount Sinai. The aims of the consortium are to translate laboratory advances in the molecular understanding of the invasive, metastatic phenotype of melanoma and resistance to therapy of melanoma to the clinic. Studies include melanoma gene discovery, mechanisms involved in p53 functional inactivation, studies of the molecular basis for invasion and metatasis, and efforts to utilize peptide inhibitors and antisense approaches to convert melanoma for a therapy resistant to sensitive phenotype. The P.I. serves as the administrative leader of this program and participate in the melanoma gene discovery effort.

R01 CA85214-05 (PI) 08/04/1999-05/31/2004
NIH/NCI \$310,032
Cellular Senescence in Aging and Cancer

The aims of this project are to characterize the molecular pathways of senescence in normal cells, as well as induced by various stimuli in tumor cells in an effort to develop better understanding of this important cell aging program.

N/A Aaronson (PI) 10/01/2001-09/30/2004
Breast Cancer Research Foundation \$217,391
Mammaglobin in the Circulation as a Marker of Breast Cancer

The major goal of this proposal is to examine the pattern of mammaglobin expression in women with and without breast cancer in order to establish its clinical utility as a blood marker for early detection of breast cancer and response to treatment.

R24 CA95834-02 Aaronson (PI) 04/01/2002-03/31/2007
NIH/NCI \$96,233
Cancer Resource - Pathology, Registry and Biorepositories

The overall aim of this study is to establish the infrastructure for conduction cancer research with human specimens consisting of a tissue repository, biorepository and data bank. It will build upon our existing infrastructure of colon and breast cancer familial registries, the Prostate Cancer Database and Tissue Bank, the Mount Sinai Tumor Registry, a pathology tissue bank,

and a specimen bank used in specific studies. The Cancer Resource will consist of several components and will facilitate research ranging from basic science, translational research, and large-scale molecular epidemiologic studies.

N/A Aaronson (PI) 12/11/2003-12/10/2004
Becton Dickinson and Company \$107,143
Collaborative Research Project

The overall aim of this study is to identify and optimize cellular environments for isolation and expansion of human tumor cells in vitro by using robotic screening methods in a systematic and comprehensive way.

Pending

T32 CA78207 Aaronson (PI) 05/01/2004-04/30/2009
NIH/NCI
Training Program in Cancer Biology

R01 CA85214 Aaronson (PI) 07/01/2004-06/30/2009
NIH/NCI
Cellular Senescence in Aging and Cancer

P01 CA80058 Aaronson (PI) 02/01/2005-1/31/2010
NIH/NCI
P53 Regulators and Effectors

BIBLIOGRAPHY

Stuart A. Aaronson

1. Aaronson, S. A., Natori, Y., and Tarver, H.: Effect of estrogen on uterine ATP levels. Proc. Soc. Exp. Biol. Med. 120: pp. 9-13, 1965.
2. Aaronson, S. A., Korner, A., and Munro, A. J.: Inhibition of soluble ribonucleic acid of stimulatory effect of liver template ribonucleic acid. Biochem. J. 101: pp. 448-453, 1966.
3. Aaronson, S. A. and Todaro, G. J.: SV40 T antigen induction and transformation in human fibroblast cell strains. Virology 36: pp. 254-261, 1968.
4. Aaronson, S. A. and Todaro, G. J.: Development of 3T3-like lines from BALB/c mouse embryo cultures: transformation susceptibility to SV40. J. Cell Physiol. 72: pp. 141-148, 1968.
5. Todaro, G. J. and Aaronson, S. A.: Human cell strains susceptible to focus formation by human adenovirus type 12. Proc. Natl. Acad. Sci. USA 61: pp. 1272-1278, 1968.
6. Aaronson, S. A. and Todaro, G. J.: Basis for the acquisition of malignant potential by mouse cells cultivated *in vitro*. Science 162: pp. 1024-1026, 1968.
7. Todaro, G. J. and Aaronson, S. A.: Properties of clonal lines of murine sarcoma virus transformed BALB/3T3 cells. Virology 38: pp. 174-179, 1969.
8. Aaronson, S. A. and Todaro, G. J.: Human diploid cell transformation by DNA extracted from the tumor virus, SV40. Science 166: pp. 390-391, 1969.
9. Aaronson, S. A., Hartley, J. A., and Todaro, G. J.: Mouse leukemia virus "spontaneous" release by mouse embryo cells after long-term *in vitro* cultivation. Proc. Natl. Acad. Sci. USA 65: pp. 87-94, 1969.
10. Jainchill, J. L., Aaronson, S. A., and Todaro, G. J.: Murine sarcoma and leukemia viruses: assay using clonal lines of contact-inhibited mouse cells. J. Virol. 4: pp. 549-553, 1969.
11. Pollock, E. J., Aaronson, S. A., and Todaro, G. J.: X-irradiation of BALB/3T3: sarcoma forming ability and virus induction. Int. J. Radiat. Biol. 17: pp. 97-100, 1970.
12. Aaronson, S. A. and Todaro, G. J.: Transformation and virus growth by murine sarcoma viruses and human cells. Nature 225: pp. 458-459, 1970.
13. Aaronson, S. A. and Todaro, G. J.: Infectious SV40 and SV40 DNA: rapid fluorescent focus assay. Proc. Soc. Exp. Biol. Med. 134: pp. 103-106, 1970.

14. Todaro, G. J., Zeve, V., and Aaronson, S. A.: Virus in cell cultures derived from human tumor patients. Nature 226: pp. 1047-1048, 1970.
15. Aaronson, S. A., Todaro, G. J., and Freeman, A. E.: Human sarcoma cells in culture: identification by colony-forming ability on monolayers of normal cells. Exp. Cell Res. 61: pp. 1-5, 1970.
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