GRANT, S.G.

Publications

Journal Articles


T-cell-defined human tumor antigen of human carcinomas. *Cancer Immunology Immunotherapy* 60: 919-929 (published online 3-16-11).

**Brief Reports**


**Conference Proceedings**


Book Chapters and Reviews


Books Edited


Technical Reports


**Invited Speaker**

Workshop on Molecular Genetics of the X Chromosome and X Chromosome Inactivation, 1982 meeting of the *American Society of Human Genetics*, Detroit, Michigan


*Workshop on Immunoregulatory Genes*, National Cancer Institute, Bethesda, Maryland, 1987

*International Conference on Complications of Treatment of Children and Adolescents for Cancer*, Roswell Park Cancer Institute, Buffalo, New York, 1990


*Northern California Chapter, Society of Toxicology Biomarkers Symposium*, University of California, Davis, California, 1991

*Pittsburgh Experimental Mammalian Embryology Minisymposium*, Magee-Womens Research Institute, Pittsburgh, Pennsylvania, 1994


*International Symposium on Womens’ Health*, University of Toronto, Toronto, Canada, 1996


Annual Meeting of the *Society of Toxicology*, Philadelphia, Pennsylvania, 2000

*International Symposium on Environmental Health Sciences in the 21st Century* and the 2001 meeting of the *Environmental Mutagen Society of India*, Jawaharlal Nehru University, New Delhi, India, 2001
Abstracts


the Satellite Symposium on Basic Mechanisms of Mutation at the Fifth International Conference on Environmental Mutagens, York University, Toronto, Ontario, Canada.


1996 meeting of the *Environmental Mutagen Society*, Victoria, British Columbia, Canada.


the 2000 *Department of Defense Breast Cancer Research Program Era of Hope Meeting*, Atlanta, Georgia.


229. Grant, S.G. (2009) Similar effects of both active and passive tobacco smoke exposure on somatic mutation in blood and bone marrow. Presented at the Fall meeting of the Society of Toxicology, Allegheny-Erie Chapter, University of Pittsburgh, Pittsburgh, Pennsylvania.


239. Grant, S.G. Increased DNA damage and cancer risk associated with active and passive tobacco smoke exposure beginning in the womb. Accepted for presentation at the 2012 HPD Research Day, Nova Southeastern University, Fort Lauderdale, Florida.

240. Latimer, J.J., Myers, N.T., and Grant, S.G. The context for ancestry in the breast cancer stem cell paradigm. Accepted for presentation at the 2012 HPD Research Day, Nova Southeastern University, Fort Lauderdale, Florida.

Acknowledgements


**Grants and Contracts**

1990 Construction of transgenic mice.
   Lawrence Livermore National Laboratory Exploratory Research and Development Program
   $ 100,000 total, $ 50,000 to SGG

1991 Development of transgenic mouse technology.
   Lawrence Livermore National Laboratory Directed Research and Development Program
   $ 300,000 total, $ 100,000 to SGG

1992 Flow cytometric isolation of differentiated cell-types from embryoid bodies.
   University of California Program For Analytical Cytology
   $ 30,000

1996 Gene inactivation and apoptotic capacity in breast cancer cell lines.
   American Cancer Society Institutional Grant to the University of Pittsburgh Cancer Institute
   $ 12,000

Elevated levels of bone marrow somatic mutation in patients with sickle cell hemoglobinopathy.
   University of Pittsburgh Central Research Development Fund
   $ 11,075
Lifestyle factors affecting fetal somatic mutation.
National Institutes of Health (1 RO1 HD33016-01A1)
$1,680,786 (SGG co-investigator)

Genetic instability as the basis for cancer predisposition and premature aging in Down syndrome.
University of Pittsburgh Medical Center Competitive Medical Research Fund
$17,997

1997 Evaluation of specific hazardous air pollutants for developmental toxicity using QSAR.
Environmental Protection Agency (PR-RT-98-00005)
$95,000 (SGG co-investigator)

American Cancer Society (RPG-98-055-01-CCE)
$336,614

Quantification of fetal erythroid cells in maternal circulation.
National Institutes of Health (1 RO3 3AD36422-01)
$100,000

Combinatorial approaches for novel anticancer agents.
National Institutes of Health (1 PO1 CA78039-01)
$3,249,685 (SGG co-investigator)

1999 DNA repair and somatic mutation in breast cancer.
Pennsylvania Department of Health Breast Cancer Check-Off Awards
$25,000 (SGG co-investigator)

2000 Elevated levels of somatic mutation as a biomarker of environmental effects contributing to breast carcinogenesis.
U.S. Army Medical Research and Material Command (DAMD17-00-1-0409)
$272,004

Cumulative genotoxicity of chemotherapeutic cocktails.
Pennsylvania Department of Health Breast Cancer Check-Off Awards
$28,000

Toward individualized monoclonal antibody radioisotope-targeted therapy for metastatic breast cancer.
Pennsylvania Department of Health Breast Cancer Check-Off Awards
$28,000 (SGG co-investigator)

Mutational analysis of genetic instability in cell lines established from BRCA1 and 2 carriers.
U.S. Army Medical Research and Material Command (DAMD17-00-1-0651)
$50,000

2001 Increased illegitimate V(D)J recombination as a possible marker for breast cancer predisposition.
U.S. Army Medical Research and Material Command (DAMD17-00-1-0605)
$50,000

2004 Genetic basis of DNA repair deficiency in sporadic breast cancer.
The Susan G. Komen Breast Cancer Foundation (BCTR0403329)
$250,000

Genetic analysis of DNA repair deficiency in novel non-tumor adjacent and tumor cell lines suggests a new paradigm of breast cancer etiology.
2005  A new paradigm for African American breast cancer involving stem cell differentiation in a novel culture system.
U.S. Army Medical Research and Material Command (BC045808)
$ 114,000 (SGG co-investigator)

2007  Quantitative proteomics of nuclear matrix proteins in novel human DCIS model systems.
U.S. Army Medical Research and Material Command (BC063999)
$ 800,000 (SGG co-investigator)

CME course development: Translational potential of current breast cancer research.
Pittsburgh Race for the Cure
$ 5,000

2008  Hypersensitivity to tobacco smoke mutagens among BRCA carriers.
Reduce Smoking and Exposure to Tobacco (ReSET) Center, University of Pittsburgh
$ 12,000

Biomarkers of invasive and metastatic potential in breast carcinoma in situ.
Friends for an Earlier Breast Cancer Test
$ 40,000

2009  The impact of environmental xenoestrogens on African American breast cancer.
The Pittsburgh Foundation
$ 150,000 (SGG co-investigator)

Red blood cell content of inorganic and organic compounds in children with autism and controls.
The Teresa and H. John Heinz III Foundation/The Richard King Mellon Foundation
$ 700,000 (SGG co-investigator)

2010  Novel drugs targeting breast cancer stem cells
UPCI Hillman Fund
$100,000 (SGG co-investigator)

2011  Stem cells and DNA repair in childhood leukemia
Children’s Leukemia Research Association of South Florida
$10,000 (SGG co-investigator)

The role of DNA repair, genomic instability and stem cells in leukemia relapse
National Children’s Leukemia Research Association
$30,000 (SGG co-investigator)

Also participating faculty on the following training grants:

Postdoctoral Fellowship Program in Radiation Sciences.
U.S. Department of Energy (DE PSO1-96EH89678-02)

Graduate Training Grant in Breast Cancer Biology and Therapy.
U.S. Army Medical Research and Material Command (DAMD17-99-1-9352)

Predoctoral Training Program in Computational Toxicology.
U.S. National Institute of Environmental Health Sciences

Cancer Education and Career Development Program
U.S. National Cancer Institute (R25)