

# Flight Attendant Medical Research Institute (FAMRI)

B Kress

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The Flight Attendant Medical Research Institute (FAMRI) was established with a \$300 million settlement resulting from a class action lawsuit brought by Stanley and Susan Rosenblatt in October 1991, in Dade County Circuit Court (Miami) against the tobacco industry. Its mission is to sponsor scientific and medical research for the early detection, prevention, treatment and cure of diseases and medical conditions caused from exposure to second hand tobacco smoke. Upon opening its doors in 2001, FAMRI continues to achieve its goals by making qualified distributions to combat

the diseases caused by second hand tobacco smoke through a peer-reviewed, competitive process. As FAMRI begins its third grant cycle, it has committed to fund a Center of Excellence at the University of California, San Francisco, the work of 67 scientific projects and awards to 13 Distinguished Professors for a total in excess of \$30 million. Tables 1 and 2 list the FAMRI grantees from 2002 and 2003.

B Kress

Executive Director, FAMRI

**Table 1** Flight Attendant Medical Research Institute: Competitive Grants and Distinguished Professor Awards 2002

Institution	Principal Investigator	Grant amount	Title
<b>COMPETITIVE GRANTS</b>			
<b>Harvard Medical School</b> Brigham and Women's Hospital	Francine Laden, Sc.D.	\$325,500	Second hand tobacco smoke and health in a blue collar population
<b>Dana-Farber Cancer Institute</b> Department of Adult Oncology	Matthew L. Meyerson, M.D., Ph.D.	\$217,000	LOH and gene expression profiles in lung carcinoma
Department of Nutrition	Wael K. Al-Delaimy, M.D., sPh.D.	\$325,500	Risk of coronary heart diseases among women exposed to second hand smoke
Department of Environmental Health School of Public Health	Lester Kobzik, M.D. David P. Miller, Sc.D.	\$217,000 \$162,750	Smoke and susceptibility to respiratory infection The molecular epidemiology of second hand tobacco smoke associated with lung cancer
<b>Johns Hopkins University</b> Department of Oncology	Rhoda M. Alani, M.D.	\$325,500	Inhibitors of histone acetyltransferases as novel therapies for HPV-associated malignancies
	David M. Loebl, M.D., Ph.D.	\$325,500	The role of WT1 in the pathogenesis of breast cancer
	Roberto Pili, M.D., Ph.D.	\$217,000	Modulation of tumor response to retinoids
	David N. Watkins, MBBS, Ph.D.	\$325,500	Hedgehog signaling and growth in lung cancer cells
Division of Endocrinology & Metabolism School of Public Health	Ruth M. Belin, M.D.	\$69,440	Second hand tobacco smoke and thyroid disease
Department of Otolaryngology	Shyam Biswal, Ph.D.	\$325,500	Lung cancer susceptibility and chemoprevention
Department of Urology	Joseph A. Califano, M.D.	\$217,000	Chromosomal instability in head and neck cancer
<b>Roswell Park Cancer Institute</b> Department of Cancer Prevention, Epidemiology and Biostatistics	Ronald Rodriguez, M.D., Ph.D.	\$217,000	Adenoviral bladder cancer gene therapy
Department of Immunology	Andrew Hyland, Ph.D.	\$325,500	Economic, behavioral, and disease impact of clean air
<b>Northwestern University</b> Department of Medicine	John L. Pauly, Ph.D.	\$217,000	Functional studies of human lung macrophages
<b>State University of New York at Buffalo</b> Department of Pulmonary, Critical Care and Sleep Medicine	Ronald B. Gartenhaus, M.D.	\$325,500	Transformed follicular lymphoma: smoke related?
<b>State University of New York at Stony Brook</b> Department of Biomedical Engineering	Archana Mishra, M.D.	\$325,000	Impact of second hand tobacco smoke on respiratory health of non-smoking adults
	Danny Bluestein, Ph.D.	\$217,000	Second hand tobacco smoke platelet activation and cardiovascular risk
<b>The University of California-San Francisco</b> Division of Clinical Pharmacology	Neal Benowitz, M.D.	\$8,079,100	FAMRI Center of Excellence
<b>The University of California-Davis</b> Department of Dermatology	Sergei A. Grando, M.D, Ph.D.	\$217,000	Precocious skin aging due to second hand tobacco smoke
Department of Pediatrics	Jesse P. Joad, M.D.	\$171,288	Second hand tobacco smoke worsens RSV bronchiolitis by cysteinyl leukotriene
<b>The University of Miami School of Medicine</b> Department of Otolaryngology	Elizabeth Franzmann, M.D.	\$325,500	Markers and mechanisms for head and neck cancer
Department of Epidemiology and Public Health	David J. Lee, Ph.D.	\$217,000	Influence of second hand tobacco smoke in youth
<b>The University of Florida College of Medicine</b> Shands Cancer Center	Xingming Deng, M.D., Ph.D.	\$217,000	The role of Bcl2 in nicotine-induced survival signaling and chemoresistance in human lung cancer cells
	Lei Xiao, Ph.D.	\$217,000	PKC-epsilon expression on the outcome of chemotherapy
<b>The University of South Florida</b> H. Lee Moffitt Cancer Center	Scott J. Antonia M.D, Ph.D.	\$217,000	Development of a tumor vaccine for lung cancer

**Table 1** (continued)

Institution	Principal Investigator	Grant amount	Title
<b>Fox Chase Cancer Center</b>			
Department of Surgical Oncology/Pathology	Paul Cairns, Ph.D.	\$325,500	Early detection of cancer by hypermethylation
<b>Pacific Institute for Research &amp; Evaluation</b>	David T. Levy, Ph.D.	\$217,000	The use of simulation models to predict and understand public health problems
<b>University of Maryland School Of Medicine</b>			
Department of Surgery/ Otolaryngology	Daqing Li, M.D.	\$325,500	MNR-targeted chemosensitization for oral cancer
<b>Veterans Medical Research Foundation</b>			
Department of Anesthesiology	Randolph H. Hastings, M.D., Ph.D.	\$217,000	Nucleolar expression of PTHrP and outcome in non-small cell lung cancer
<b>DISTINGUISHED PROFESSOR AWARDS</b>			
<b>The University of California San Diego</b>			
Department of Family and Preventive Medicine	David M. Burns, M.D.	\$600,000	Study of second hand tobacco smoke in the workplace
<b>Henry Ford Health System</b>			
Center for Health Promotion and Disease Prevention	Ronald M. Davis, M.D.	\$600,000	Investigate smoking policies among a national sample of airports in the United States, linking passive smoking and disease and factors that affect the adoption (or non-adoption) of clean indoor air policies
<b>Massachusetts General Hospital</b>			
Tobacco Research and Treatment Center	Nancy A. Rigotti, M.D.	\$600,000	Scientific study of tobacco use among young adults
<b>Boston University</b>			
School of Public Health	Michael B. Siegel, M.D., MPH	\$600,000	Study of effects of second hand smoke on workers and the public
<b>The University of Minnesota</b>	Stephen S. Hecht, Ph.D.	\$600,000	Biomarkers of tobacco-specific carcinogen cancer center uptake
<b>The University of California-San Francisco</b>			
Center for Tobacco Control, Research and Education	Stanton A. Glantz, Ph.D.	\$600,000	Scientific impact of second hand smoke
<b>The University of Alabama</b>			
Center for the Study of Tobacco and Society	Alan Blum, M.D.	\$600,000	Book documenting flight attendant exposure to second hand smoke in airline cabins
<b>Dade Community Foundation</b>	James Repace, MSc.	\$600,000	Scientific study regarding second hand tobacco smoke in the hospitality industry

**Table 2** Flight Attendant Medical Research Institute: Competitive Grants And Distinguished Professor Awards 2003

Institution	Principal Investigator	Grant amount	Title
<b>COMPETITIVE GRANTS</b>			
<b>Harvard Medical School</b>			
Brigham and Women's Hospital	Edward S. Peters, DMD, Sc.D.	\$325,500	Second hand tobacco smoke and head and neck cancer
Massachusetts General Hospital	Jonathan P. Winickoff, M.D., MPH	\$325,500	Changing pediatric practice to address second hand tobacco exposure
	Daniel L. Hamilos, M.D.	\$216,968	Pathogenesis of chronic sinusitis in relationship to tobacco smoke exposure
<b>Johns Hopkins University</b>			
Division of Pulmonary and Critical Care Medicine	Maureen R. Horton, M.D.	\$325,500	Matrix induced epithelial activation in bronchitis
Department of Oncology	Douglas W. M.D.	\$217,000	Regulation of non-small cell lung cancer by notch
	Ben Ho Park, M.D., Ph.D.	\$325,500	Estrogen receptor signaling in normal and cancerous breast epithelial cells
Department of Otolaryngology	Barry Trink, Ph.D.	\$217,000	Cloning of a putative oncogene on 20q11
Department of Pathology	Chien-Fu Hung, Ph.D.	\$325,000	Development of novel human immunology assays for human HPV vaccine trials
Radiology Department	Venu Raman, Ph.D.	\$217,000	Deciphering genetic alterations caused by second hand tobacco smoke exposure in the pathogenesis of breast cancer
<b>Sidney Kimmel Comprehensive Cancer Center</b>	Betsy J. Barnes, Ph.D.	\$325,500	Role of IRF-5 as a tumor suppressor in non-small cell lung cancer
	Ephraim J. Fuchs, M.D.	\$217,000	Tumor vaccine after nonmyeloablative allogeneic stem cell transplantation for kidney cancer
	Saeed R. Khan, Ph.D.	\$325,500	Novel drug development for breast cancer
<b>Roswell Park Cancer Institute</b>			
Department of Cancer Prevention, Epidemiology & Biostatistics	Martin C. Mahoney, M.D., Ph.D.	\$343,591	Airway resistance and cytogenetic abnormalities associated with second hand tobacco smoke exposure
Department of Health Behavior	Anthony Brown	\$800,000	Tobacco Institute and Council for Tobacco Research Collection Development
<b>Stanford University</b>			
Department of Statistics	Paul Switzer, Ph.D.	\$676,292	Quantifying human exposure to second hand tobacco smoke
<b>Boston University School of Medicine</b>			
Division of Pulmonary, Allergy and Critical Care Medicine	Robert E. Walter, M.D., MPH	\$325,500	Biomarkers of chronic obstructive pulmonary disease
<b>Columbia University</b>			
Department of Medicine	Robert F. Foronij, M.D.	\$320,409	The effect of PLTP induction in smokers
<b>The Trustees of Dartmouth College</b>			
Department of Radiology and Cardiology	Justin D. Pearlman, M.D.	\$1,000,000	Advanced Cardiovascular Imaging Center

**Table 2** (continued)

Institution	Principal Investigator	Grant amount	Title
<b>The University of California-San Francisco</b> Department of Medicine	Kirsten E. Fleischmann, M.D., MPH	\$217,000	Passive smoking and outcomes in congestive heart failure
Paul and Lydia Kalmanovitz Library	Karen A. Butter, MLS	\$1,000,000	FAMRI-Guildford Digital Library of Documents
Division of Cardiology	Teresa De Marco, M.D.	\$217,000	The effect of second hand tobacco smoke on exercise capacity and clinical outcomes in pulmonary arterial hypertension
Clinical Pharmacy Dept.	Lisa A. Bero, Ph.D.	\$325,500	Development of smoking restrictions on airlines
<b>The University of California - Irvine</b> Department of Hematology/ Oncology	Andreea A. Nanci, M.D.	\$150,000	Apoptosis or necrosis: how dendritic cells cope with death
Department of Otolaryngology	Brian J.F. Wong, M.D., Ph.D.	\$216,884	Optical diagnosis of early laryngeal cancer
Department of Pediatrics	Jesse P. Joad, M.D.	\$171,288	Second hand tobacco smoke worsens RSV bronchiolitis by cysteinyl leukotriene
<b>The University of California-Los Angeles</b> Harbor-UCLA Research and Education Institute	Ramin Mirhashemi, M.D.	\$216,500	Genetic predisposition to second hand tobacco smoke in cervical diseases
<b>Mayo Clinic</b> Cardiovascular Diseases	Thomas P. Abraham, M.D.	\$217,000	Peripheral vascular hemodynamics and abnormalities associated with second hand tobacco smoke exposure
<b>The University of Miami School of Medicine</b> Department of Epidemiology and Public Health	David J. Lee, Ph.D.	\$108,276	Serum cotinine and middle ear disease
Vascular Biology Institute	Edgar A. Jaimes, M.D.	\$325,500	Mechanisms of endothelial dysfunction in smokers
<b>The University of Florida College of Medicine</b> Department of Medicine	Jan S. Moreb, M.D.	\$217,000	Role of ALDHs in the pathogenesis and biology of lung cancer
Department of Otolaryngology	Lori Kornberg, Ph.D.	\$215,484	Adenoviral gene transfer and in vitro studies
Shands Cancer Center	Satya Narayan, Ph.D.	\$216,963	Mechanisms of second hand tobacco smoke-induced breast carcinogenesis
<b>Carl T. Hayden Medical Research Foundation</b> Pulmonary and Critical Care Medicine	Richard A. Robbins, M.D.	\$453,529	Noninvasive assessment of the lower respiratory tract in response to second hand tobacco smoke exposure
<b>University of Pittsburgh</b> Department of Otolaryngology	Robert L. Ferris, M.D., Ph.D.	\$325,500	Apoptosis of effector T cells in cancer
<b>University of Alabama at Birmingham</b> Department of Maternal and Child Health	Hamisu M. Salihu, Ph.D.	\$325,500	Effect of second hand tobacco smoke on fetal body and brain size
<b>University of Texas Southwestern</b> Moncrief Radiation Oncology Center	Debabrata Saha, Ph.D.	\$150,000	COX-2 regulation in response to combined therapy
<b>Vanderbilt University Medical Center</b> Department of Medicine, Allergy, Pulmonary and Critical Care	Pierre P. Massion, M.D.	\$217,000	Identification of new molecular targets in lung cancer
<b>DISTINGUISHED PROFESSOR AWARDS</b> <b>The University of Colorado</b>	Thomas L. Petty, M.D.	\$600,000	Promote knowledge about new technologies and approaches to the early diagnosis of lung cancer and related disorders
<b>Johns Hopkins University</b> School of Public Health	Jonathan M. Samet, M.D.	\$600,000	Reducing the risks of second hand smoke: a global approach
<b>Harvard Medical School</b> Department of Social Medicine	Allan M. Brandt, M.D.	\$600,000	History and policy studies in tobacco control
<b>Mayo Clinic</b> Nicotine Dependence Center	Richard D. Hurt, M.D.	\$600,000	Health assessment of flight attendants previously exposed to second hand smoke
<b>George Washington University</b> Law School	John F. Banzhaf III, J.D.	\$600,000	Legal action and education against tobacco smoke pollution

To learn more about FAMRI and upcoming grant announcements go to: [www.FAMRI.org](http://www.FAMRI.org)

