Gifts, Grants, and Contracts for September 2009

The following gifts, grants and contracts received by all campuses during the period September 1, 2009 through September 30, 2009 total $77,224,918.

Research

DA-Dept of Agriculture

Agriculture, Dept - Agricultural Research Svc-FED $179,744
  Environmental Effects of Tephritid Fruit Fly Control and Management
  Hu, Ching Yuan College of Tropical Agriculture and Human Resources
  The approach to this project is to address the development and evaluation of currently acceptable or novel non-toxic fruit fly control strategies such as classical biological controls, post-harvest treatments, and microbial control agents.

Agriculture, Dept - Agricultural Research Svc-FED $94,867
  Management and Control of Banana Bunchy Top Virus (BBTV) Through Resistant Cultivars
  Hu, Ching Yuan College of Tropical Agriculture and Human Resources
  The overall objective of this cooperative research project is to minimize the impact of banana bunchy top virus.

Agriculture, Dept - Agricultural Research Svc-FED $4,448
  Funding for Mutual Interest
  Grace, Jack Kenneth JR Department of Plant and Environmental Protection Sciences
  Continuation of student assistant(s) at Manoa ARS facility for on-going research and grant studies.

Agriculture, Dept - Agricultural Research Svc-FED $221,732
  Control of Minor Crop Pests and Diseases
  Hu, Ching Yuan College of Tropical Agriculture and Human Resources
  The approach to this project is to address the development of economical and environmentally friendly pest and disease management strategies for Hawaii's economically important and potentially important crops.

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED $226,546
  Hawaii Floriculture Research Grant - 2009
  Hu, Ching Yuan College of Tropical Agriculture and Human Resources
  Develop and commercialize high yielding disease/insect resistant floral cultivars for Hawaii, address current technical constraints such as quarantine issues that limit the export of Hawaii floral and ornamental crops, develop in-field and post-harvest methodologies to eliminate invasive species.

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED $374,798
  Development of Combined Continuous-Flow Microwave and Pulsed Ohmic Heating Technologies for Rapid and Uniform Heating of Multiphase Foods
  Jun, Soojin Department of Human Nutrition, Food and Animal Sciences
  Design a continuous flow microwave and ohmic combination heating system for particulate foods to be uniformly heat treated, ensuring food safety and quality.

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED $100,000
  Investigating the Application of Peptide Pesticides: Diversifying Molluscicide Targeting Capabilities and Enhancing Biodelivery
  Bingham, John-Paul Department of Molecular Biosciences and Bioengineering
  Development and testing of peptide pesticides against mollusks.

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED $165,340
  Engineering a Signal Transduction Pathway in a Fungus for Industrial Protein Production
  Cho, Yangrae Department of Plant and Environmental Protection Sciences
  This research is about re-engineering a signal transduction pathway in a fungus to utilize it for the production of hydrolytic enzymes. These enzymes will be sued for simple sugar production out of biocellulosics.
Gifts, Grants, and Contracts for September 2009

Research

DA-Dept of Agriculture

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED $197,772
Using Diffuse Reflectance Spectroscopy to Quantify and Predict Soil Carbon Content in Agricultural Soils of Hawaii
Bruland, Gregory Lee Department of Natural Resources and Environmental Management
This project will involve developing new methods to measure and quantify soil carbon. These will include visible/near infrared and mid-infrared diffuse reflectance spectroscopy. Will we scan samples from Hawaii at the National Soils Lab in Lincoln, NE, and also collect and scan new samples from Hawaii.

Agriculture, Dept - FED $80,850
Sequencing of the Oriental Fruit Fly Genome
Patek, Paul Q Department of Microbiology
Sequencing of the oriental fruit fly genome.

Agriculture, Dept - FED $200,478
UHM-Collaborative Effort for Evaluating Regionally Based Feedstock and Co-Products for Aquaculture and Livestock
Hashimoto, Andrew G College of Tropical Agriculture and Human Resources
The main objective of this agreement is to evaluate the usefulness of regionally grown feedstock for aquaculture and livestock.

Agriculture, Dept - FED $348,461
Protecting Papaya from Pests and Diseases
Vincent, Douglas L College of Tropical Agriculture and Human Resources
Develop and evaluate non-toxic, preferably biologically-based, environmentally suitable technologies and processes for pest and disease control on papaya.

Agriculture, Dept - FED $2,000
Support of Agricultural Research - 2009-2
Stahl, Norman Vice Chancellor for Student Affairs-UHH
Support for UH Hilo student assistants to conduct research on PBARC projects

Agriculture, Dept - FED $64,000
Ag Research of Mutual Interest, FY 2010
Stahl, Norman Vice Chancellor for Student Affairs-UHH
Salary support for student assistants working on PBARC research projects

Agriculture, Dept - Ntrl Resources Conservation Svc -FED $48,588
Invasive Weed Management Strategies using Herbicide Ballistic Technology
Leary, James Department of Natural Resources and Environmental Management
This is a new proposal that will demonstrate the utility of Herbicide Ballistic Technology eradicating incipient invasive weed populations from Hawaii’s watersheds.
Gifts, Grants, and Contracts for September 2009

Research

DHHS-Dept of Health and Human Services

Health & Human Svcs, Dept - Natl Inst of Health (NIH) $1,830,516

RCMI Clinical Research Infrastructure Initiative (RCRII)
Hedges, Jerris John A. Burns School of Medicine

Health & Human Svcs, Dept - Natl Inst of Health (NIH) $187,500

Exploratory Studies on the Anti-Breast Cancer Function of Bamboo Extract
Panee, Jun Department of Cell and Molecular Biology
This project aims to investigate the cellular and molecular pathways through which bamboo extract inhibits the initiation and/or promotion of chemically induced breast cancer.

Health & Human Svcs, Dept - Natl Inst of Health (NIH) $1,313,830

Cancer Research Center of Hawaii
Carbone, Michele Cancer Research Center
Assess current informatics systems at CRCH and develop an implementation plan for adopting in the three caBIG® software bundles.

Health & Human Svcs, Dept - Natl Inst of Health (NIH) $232,529

Administrative Supplements for: Physical Activity in Women with Infants
Albright, Cheryl L. Cancer Research Center
The purpose of this administrative supplement is to increase recruitment efforts by targeting women who had gestational diabetes during their last pregnancy. Enrolling more women who had a history of gestational diabetes will allow us to investigate physical activity increases in this high risk populations.

Health & Human Svcs, Dept/NIH - Natl Cancer Institute $1,543,339

Pathogenesis of Mesothelioma (Parent Award, PO1 CA114047). Supplement title: Combinational Immunotherapy for Malignant Mesothelioma
Carbone, Michele Cancer Research Center
Use mechanistic information developed during the studies supported by the PO1: Pathogenesis of Malignant Mesothelioma (MM) to develop novel immunotherapeutic approaches and to test whether immunotherapy can synergize with pharmacological chemotherapy to cure/improve survival of mice injected with MM cells.

Health & Human Svcs, Dept/NIH - Natl Cancer Institute $100,000

Hawaii Minority-Based CCOP
Cho, Jonathan Cancer Research Center
If this supplemental funding is awarded, an additional clinical research associate will be hired to serve the neighbor islands of Hawaii, Maui and Kauai for oncology clinical trial screening and enrollment, trial treatment coordination with clinics and physicians, data management, and community outreach programs.

Health & Human Svcs, Dept/NIH - Natl Cancer Institute $572,236

Collaborative Genetic Study of Ovarian Cancer Risk
Goodman, Marc T Cancer Research Center
The five-year study will examine the association of vitamin D and calcium-related genetic polymorphisms with the risk of epithelial ovarian in Hawaii.
Gifts, Grants, and Contracts for September 2009

Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Cancer Institute
Role of Polyamines in MYCN-Amplified Neuroblastoma
Bachmann, Andre S. Cancer Research Center
Research relates to active R01 which examines the role of polyamines and polyamine inhibitors in the pediatric cancer neuroblastoma and is in direct response to the *Notice of Availability of Recovery Act Funds for Administrative Supplements NOT-OD-056.

Health & Human Svc, Dept/NIH - Natl Cancer Institute
Whole Genome Scan for Modifier Genes in Colorectal Cancer
Le Marchand, Loic Cancer Research Center
The purpose of this supplement is to expand the study population of the parent grant and to conduct a genome-wide scan of colorectal cancer among African Americans.

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources
Research Outcomes Accelerating Discoveries for Medical Applications and Practice
Ostrander, Gary Kent John A. Burns School of Medicine
The RCMI Program aims to further develop research excellence in biomedicine and health by fostering translational research linking basic science and clinical medicine. Research activities include biomedical imaging and bioengineering, bioactive nutrients, tropical infectious diseases detection and prevention and expanded biostatistics and computer core support services.

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources
Translational ARRA Supplement to COBRE: Center for Cardiovascular Research
Shohet, Ralph Victor Department of Medicine
This supplement award supports augmented research core services to the Center for Cardiovascular Research.

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources
Research Outcomes Accelerating Discoveries for Medical Applications and Practice
Ostrander, Gary Kent John A. Burns School of Medicine
The RCMI Program aims to further develop research excellence in biomedicine and health by fostering translational research linking basic science and clinical medicine. Research activities include biomedical imaging and bioengineering, bioactive nutrients, tropical infectious diseases detection and prevention and expanded biostatistics and computer core support services.

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources
IBR COBRE Supplement
Ward, William S Dept Anatomy, Biochemistry, Physiology and Reproductive Biol
Research will be focused on an analysis of the location of transgene insertion sites that will be done using a transposon integration system. Recombination technology will be used to increase the size of inserted genes by using bacterial chromosomes. Funds from the supplement will go to new hiring of two graduate assistants.

Health & Human Svc, Dept/NIH - Natl Ctr on Minority Hlth & Hlth Disprty
Pili ‘Ohana Program: Partnerships to Overcome Obesity Disparities in Hawaii
Kaholokula, Joseph Department of Native Hawaiian Health
This competing continuation proposal seeks funding for a 5-year intervention project on weight loss maintenance among Native Hawaiians and Pacific Peoples based on a community-based participatory research model.
Gifts, Grants, and Contracts for September 2009

Research

DHHS-Dept of Health and Human Services

Health & Human Svcs, Dept/NIH - Natl Human Genome Rsch Inst  
Epidemiology of Putative Causal Variants in the Multiethnic Cohort  
Le Marchand, Loic  
Cancer Research Center  
This project will study 180,000 genetic variants in relation to obesity, diabetes and metabolic biomarkers in the Multiethnic Cohort study. The information generated will be critical to determine the health impact of disease associated variants and will provide valuable insights into disease pathways and mechanisms.

Health & Human Svcs, Dept/NIH - Natl Inst of Diabetes,Digestive,Kidney Dis  
Administrative Supplement for: Multimedia Intervention to Motivate Ethnic Minority Teens to be Designated Donor  
Albright, Cheryl L.  
Cancer Research Center  
The purpose of this administrative supplement is to increase recruitment efforts on the three other islands, in addition to Oahu, in order to increase the proportion of ethnic minority adolescents who live in rural areas and to increase proportion of study sample that is from low-income households.

Health & Human Svcs, Dept/NIH - Natl Inst on Drug Abuse  
The Project Success Model: Evaluation of A Tiered Intervention  
Wills, Thomas  
Cancer Research Center  
The study is a two-level intervention, with one level (universal program) aimed at deterring initiation while second level (indicated program) is aimed at preventing escalation of use. This approach has the goal of reducing adolescent substance use problems.

DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)  
From Science to Conservation: Linking Coral Reefs, Coastal Watersheds and their Human Communities in the Pacific Islands  
Richmond, Robert H  
Pacific Biosciences Research Center  
This project addresses the impacts of watershed discharges on coral reefs in the Pacific Islands and translating science into policy and management approaches to protect these coastal marine resources.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)  
The University of Hawaii Sea Level Center  
Merrifield, Mark A  
Joint Institute for Marine and Atmospheric Research  
The University of Hawaii Sea Level (UHSLC) collects, processes, analyzes, and distributes tide gauge data from around the world in support of climate and oceanographic research.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)  
The NOAA Coral Reef Conservation Grant Program is providing funds to the Hawai‘i Undersea Research Laboratory to administer a competitive coral reef research grants program for Hawai‘i and the Western Pacific.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)  
HURL Annual Funding  
Wiltshire, John C  
Hawaii Undersea Research Laboratory  
This proposal provides FY2008, FY2009 funding for the Hawaii Undersea Research Laboratory.
Gifts, Grants, and Contracts for September 2009

Research

DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $142,025
   Evaluating the Marketing Channel and Food Safety of Fish and Seafood Products in Hawaii
   Leung, Ping Sun  Department of Molecular Biosciences and Bioengineering
   This research intends to describe and assess the marketing channels and food safety of fish and seafood products in Hawaii through surveying the seafood distribution channels and restaurants.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $126,810
   National Weather Service/JIMAR Pacific International Desk
   Schroeder, Thomas A  Joint Institute for Marine and Atmospheric Research
   Training is provided to selected candidate meteorologists from the predominantly island nations within World Meteorology Organization (WMO) Region 5. Goal is to train techniques and technology applicable to their nations and physically transfer appropriate hardware and software to that nation.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $248,117
   Integrating Socioeconomic Assessments to Build Community Resilience in Mitigating Drought
   Anderson, Cheryl  Social Science Research Institute
   The research will investigate socioeconomic factors of risk and vulnerability to drought in order to develop a network and measures for reducing drought and climate change impacts. These will be integrated in drought and disaster mitigation plans.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $681,818
   Hawaii Coral Reef Initiative
   Hamnett, Michael P  Social Science Research Institute
   HCRI proposes a five year plan to sponsor research on the state's biotic reefs, native aquatic habitats directly influencing them, and the effects of human activity through an integrated ecosystem approach.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $90,309
   Evaluation and Improvements of Cloud and Precipitation Physics in the Operational Hurricane WRF Model at NCEP/EMC
   Wang, Yuqing  Joint Institute for Marine and Atmospheric Research
   To improve the cloud microphysics scheme used in the Hurricane Weather Research and Forecast (HWRF) model developed in the Environmental Modeling Center (EMC) at the National Centers for Environmental Prediction (NCEP) of NOAA, with the ultimate goal to improve the prediction of hurricane structure and intensity by

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $228,164
   ADMB Open Source Project
   Sibert, John R  Joint Institute for Marine and Atmospheric Research
   To develop the protocols for maintaining a source code repository and producing binary distributions, and for testing and distributing the AD Model Builder (ADMB) software across multiple platforms, operating systems and compilers for scientific modeling use.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc $10,000
   Monk Seal Recovery Team, Island of Hawaii
   Turner, Jason  Natural Sciences-UHH
   Funding to carry out monk seal response
Gifts, Grants, and Contracts for September 2009

Research

DOC-Dept of Commerce

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
Coral Reef Management Initiative
Schroeder, Thomas A
Joint Institute for Marine and Atmospheric Research
To establish an enhanced coral reef management presence in the Pacific and foster opportunities for cooperative research with the University of Hawaii.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
Pelagic Fisheries Research Program
Weng, Kevin
Department of Oceanography
These funds will cover various topics of project research focusing on Pacific pelagic fish species to be conducted at various locations. Therefore, specific indirect cost rates, locations, certification as and attachments are not addressed here but will be addressed at the time each proposal is submitted.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
Fisheries Oceanography: Protected Species Research Program
Schroeder, Thomas A
Joint Institute for Marine and Atmospheric Research
To conduct research on Pacific islands area protected species populations, their ecology, and relationships to environmental and oceanographic parameters.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
Data Administration of Pelagic Fisheries Data
Schroeder, Thomas A
Joint Institute for Marine and Atmospheric Research
To enable timely and effective monitoring of the Hawaii-based longline fishery using data from the Pacific Islands Regional Office observer program & ancillary data sources, & to continue data administration support for Pacific Islands Fisheries Science Center and Pacific Islands Regional Office scientists and data managers.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
Sustaining Healthy Coastal Ecosystems (JIMAR Coastal Research Program)
Schroeder, Thomas A
Joint Institute for Marine and Atmospheric Research
This project will support multi-disciplinary efforts to assess, monitor, map, restore, and protect coral reef ecosystems of the U.S.-affiliated Pacific Islands.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
Fisheries Oceanography: Ecosystem Observations and Research Program
Schroeder, Thomas A
Joint Institute for Marine and Atmospheric Research
Scientific projects that bridge research investigations to produce ecosystem level analyses and products.

Commerce, Dept/NOAA - Natl Weather Service
National Weather Service, Pacific Region - Fellowship Program
Schroeder, Thomas A
Joint Institute for Marine and Atmospheric Research
Funds will be used to support students and infrastructure within the departments of Meteorology, Oceanography (marine applications) and Geology & Geophysics (hydrology).

Western Pacific Regional Fishery Mgmt Council
Investigating the Relationship Between Deep Water Choruses and Hawaii’s Mesopelagic Boundary Community
Lammers, Marc
Hawaii Institute of Marine Biology
Acoustic recording instruments and vessel-based echosounders will be used to investigate the possibility that elements of the migrating mesopelagic boundary community of organisms produce sounds.
## Gifts, Grants, and Contracts for September 2009

### Research

#### DOD-Department of Defense

<table>
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<tr>
<th>Project Description</th>
<th>Department</th>
<th>Award Amount</th>
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<tbody>
<tr>
<td>Operations and Management of the Maui Supercomputing Center</td>
<td>Defense, Dept - Air Force</td>
<td>$814</td>
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<tr>
<td>Operations and Management of the Maui High Performance Computing Center</td>
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<td>Defense, Dept - Air Force</td>
<td>$1,132,938</td>
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<td>Modeling of Hurricane Surge and Waves for Hawaii</td>
<td>Defense, Dept - Army</td>
<td>$74,961</td>
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</tbody>
</table>
Gifts, Grants, and Contracts for September 2009

Research

DOD-Department of Defense

Defense, Dept - Naval Postgraduate School

Collaborative Studies on Tropical Cyclone Intensification
Li, Tim
Department of Meteorology
To further investigate the fundamental dynamics and thermal dynamics processes associated with the vortical hot towers.

Defense, Dept - Navy

Research Associated with Marsilea Villosa at Lualualei Valley
Ranker, Thomas A
Department of Botany
This is a study of the ecology, population genetics, and conservation management of the rare fern Marsilea villosa.

Defense, Dept - U.S. Army Med Rsch Acqstn Actvty (USAMRAA)

Does a Personalized Health Portal for Diabetes Retinal Imaging Positively Affect Motivational Readiness to Change?
Birkmire-Peters, Deborah
John A. Burns School of Medicine
The proposed research aims to use constructs from the transtheoretical model to assess the impact of exposure to a personalized health technology (i.e., screening retinal images presented to patients via a web portal) on the readiness of type 2 diabetes patients to positively change their behavior.

DOE-Dept of Energy

Energy, Dept - FED

Research in High Energy Physics: Technical Progress Report & FY08 Budget Request
Browder, Thomas E
Department of Physics and Astronomy
Primary purpose of this research is the understanding of the properties of the elementary constituents of matter and the nature of the fundamental forces between them.

Energy, Dept - FED

Understanding Annual Cycle-ENSO Interactions in Climate Change Simulations
Schneider, Niklas
Department of Oceanography
An investigation of interactions of annual cycle and interannual variations (el Nino) of the tropical Indo-Pacific in simulations of future climate with changes of greenhouse gases.

Energy, Dept - FED

Study of Mechanisms of Aerosol Indirect Effects on Glaciated Clouds
Phillips, Vaughan
Department of Meteorology

Energy, Dept - FED

Future Projections of Mean and Variability of the Asian Summer Monsoon and Indian Ocean Climate Systems
Annamalai, H
Department of Meteorology
The primary goal of the proposal is to quantify the future projections of the Asian Summer Monsoon and tropical Indian Ocean Climate systems. Specifically, the proposed research aims to examine the degree to which changes in greenhouse gas and aerosol concentrations influence the time-mean state of the monsoon climate.
Gifts, Grants, and Contracts for September 2009

Research

DOE-Dept of Energy

Energy, Dept - FED
I. Structural and Mechanistic Studies of Doped Alanates; II. Kinetic Enhancement of Thermodynamically Tuned, High Capacity, Reversible Metal Hydrides
Jensen, Craig M Department of Chemistry
Development of High Performance Hydrogen Storage Materials.

Energy, Dept - FED
Supplemental Proposal for Travel to KEK Super-B and SuperBelle
Browder, Thomas E Department of Physics and Astronomy
Bellell/SuperKEKB project is now funded in Japan. Additional funding is needed for the travel associated with Prof

Energy, Dept - FED
Research in High Energy Physics: Technical Progress Report & FY08 Budget Request
Browder, Thomas E Department of Physics and Astronomy
Primary purpose of this research is the understanding of the properties of the elementary constituents of matter and the nature of the fundamental forces between them.

Energy, Dept - FED
Supplement Funds for Travel Support for Visiting Senior Researchers to Collaborate on TeV-Scale Phenomenology
Tata, Xerxes Department of Physics and Astronomy
Invite 3-4 senior researchers with expertise in TeV scale phenomenology as it relates to the LHC & in direct dark matter detection, to collaborate with members of the Hawaii Theory Group.

DOI-Dept of Interior

Interior, Dept - National Park Service
Invasive Coqui Study and Public Outreach in Hawaii Volcanoes National Park and Vicinity
Duffy, David C Department of Botany
Monitor and collect data on coqui frog populations in Hawaii Volcanoes National Park, implement control methods including testing barricades and chemical treatments, and provide technical assistance and public outreach.

Interior, Dept - National Park Service
Developing Rare Plant Monitoring and Recovery Strategies
Morden, Clifford W Department of Botany
Conduct surveys and identify seed sources of endangered, threatened and rare plant species; collect seeds and cuttings and propagate and outplant seedlings; and evaluate propagation and outplanting success.

Interior, Dept - National Park Service
Haleakala Silversword Research to Slow the Invasion of Argentine Ants in Silversword Habitat
Krushelnycky, Paul D Department of Plant and Environmental Protection Sciences
The project will research silversword reproductive ecology and survival, research current and future patterns of invasive Argentine ant spread, and develop methods for slowing ant spread into the park.
Gifts, Grants, and Contracts for September 2009

Research

DOI-Dept of Interior

Interior, Dept - U.S. Fish & Wildlife Service
Project Support for Invasive Species Committees and CGAPS Outreach Efforts
Duffy, David C Department of Botany
Conduct early detection research and strategies for high risk invasive species. Support public awareness of invasive species through public outreach.

Interior, Dept - U.S. Fish & Wildlife Service
Investigation of Wet Tropical Forest Ecosystems in the Pacific Remote Islands Complex
Li, Qingxiao Department of Molecular Biosciences and Bioengineering
Investigate the wet tropical forest and hydrogeology of Palmyra Atoll NWR and other refuges in the Pacific Remote Island Complex.

Interior, Dept - U.S. Fish & Wildlife Service
Plant Extinction Prevention Program
Duffy, David C Department of Botany
Prevent the extinction of 54 plant species on Kauai at high risk for imminent extinction through propagule collection, tissue culture and propagation.

Interior, Dept - U.S. Fish & Wildlife Service
Three Mountain Alliance (TMA) Coordination, Planning and Management
Duffy, David C Department of Botany
Implement conservation projects in the Three Mountains watershed area on the Big Island.

Interior, Dept - U.S. Geological Survey
Hawaiian Forest Bird Research: Publishing Bird Trends
Ziegler-Chong, Sharon Pacific Aquaculture-UHH
Complete data analysis and production of reports on the status and distribution of Hawn forest birds, including population estimates, distribution maps, and trends analysis

Interior, Dept - U.S. Geological Survey
Population Trends, Distribution, and Insect Prey Base of the Hawaiian Hoary Bat
Ziegler-Chong, Sharon Pacific Aquaculture-UHH
Fully gather information needed for the re-evaluation of the conservation status of the Hawaiian hoary bat

Interior, Dept - U.S. Geological Survey
Hawaiian Vegetation Mapping Project: Digital Database
Ziegler-Chong, Sharon Pacific Aquaculture-UHH
Enter plant data from approximately 4,000 additional stations sampled during the HFBS into the plant database

Interior, Dept - U.S. Geological Survey
Survey of Invasive Ants at Hakalau Forest National Wildlife Refuge
Ziegler-Chong, Sharon Pacific Aquaculture-UHH
Systematically surveying the Hakalau refuge for ants
Gifts, Grants, and Contracts for September 2009

Research

DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey $65,540
HCSU Unit Support & General Activities 2009
Ziegler-Chong, Sharon Pacific Aquaculture-UHH
Support research programs of the USGS BRD PIERC related to the ecological, environmental and sociocultural management of natural and cultural areas and other components of DOI agencies

ED-Dept of Education

Education, Dept - FED $63,600
UHH Hawaiian Forest Database: Saipan Island
Ziegler-Chong, Sharon College of Agriculture, Forestry-UHH

Education, Dept - FED $4,500
UHH Analysis Lab/Field Data Avian
Ziegler-Chong, Sharon College of Agriculture, Forestry-UHH

Education, Dept - FED $10,259
Endangered Plant Species in Hawaii Volcano National Park (HVNP)
Ziegler-Chong, Sharon College of Agriculture, Forestry-UHH

Education, Dept - FED $507,431
Project Ho`oku`i
Roberts, Kelly D Center on Disability Studies
Project Ho`oku`i will increase the number of Native Hawaiian high school students, who are able to acquire additional high school credits toward graduation and meet the academic qualifications to enroll in college classes as part of their high school coursework.

Foreign

Daihatsu Motor Company, Ltd. $25,000
Analysis and Recommendation for Daihatsu Hydrazine Fuel Cell Stack Optimization
Rocheleau, Richard E Hawaii Natural Energy Institute
HNEI will test and evaluate letter-sized hydrazine fuel cell stacks supplied by Daihatsu Motor Company Ltd. The purpose of this testing is to provide analysis of stack characterization and provide recommendation of stack optimization.

Hans Rausing Endangered Languages Proj $13,292
Documentation of Archaic Akha, the Register of the Shaman, with a Comparison to Modern Spoken Akha
Thieberger, Nicholas Department of Linguistics
This dissertation project will document and describe the grammar of Akha, a language spoken in Mainland Southeast Asia. Jake Terrell will travel to Chiang Rai, Thailand to record and analyze the Akha language, and then write a descriptive reference grammar based on the data.
Gifts, Grants, and Contracts for September 2009

Research

Foreign

Ministry of Agriculture and Rural Development, Central Project Office - Vietnam $607,793
Vietnam Natural Disaster Risk Management Project 1F
Gaines, James R Vice President for Research
The Pacific Disaster Center will provide consulting services to assist the Department of Dyke Management and Flood and Storm Control (DDMFSC) and Central Project Office (CPO), within the Ministry of Agriculture and Rural Development (MARD), develop and implement an education and training program

Northeast Asian History Foundation $8,000
Chinese Newspaper's Attitude Toward Conflicts over History in East Asia: People's Daily and Beijing Youth Daily
Seo, Jungmin Department of Political Science
Data coding of articles appeared in two Chinese newspapers (People’s Daily and Beijing Youth Daily) to analyze Chinese journalism’s attitude toward the conflicts over historical memories in East Asia.

United Nations Educ, Scientific & Cultural Org (UNESCO) $153,548
The IOC Coordinated Indian Ocean Tsunami Warning System: Upgrade of Sea Level Stations in the Indian Ocean
Merrifield, Mark A Joint Institute for Marine and Atmospheric Research
To install, upgrade, and maintain multiple-use tide gauge stations in the Indian Ocean for tsunami and sea level monitoring.

World Health Organization $25,000
WHO: Disaster Education Project
Qureshi, Kristine School of Nursing and Dental Hygiene
Develop, pilot test and evaluate disaster training programs that address bio-events and are culturally relevant for Asia and the Pacific Rim nations. Present findings at international meetings.

Hawaii- Business and Other

Hawaii Agriculture Research Center $32,000
Proteomics Study of Tropical Plants
Li, Qingxiao Department of Molecular Biosciences and Bioengineering
Identify proteins involved in the resistant interaction of the most tolerant papaya cultivar, Kamiya, to its major root-rot pathogen.

Hawaii BioEnergy, LLC $20,000
NSF Center for Bioenergy Research & Development - Hawaii BioEnergy LLC Membership
Turn, Scott Q Hawaii Natural Energy Institute
Hawaii BioEnergy LLC is paying for a membership in the University of Hawaii site of the NSF supported Center for Bioenergy Research & Development.

Malama O Puna $33,000
Restoration and Protection of Hawai‘i Island’s Coastline through Island-Wide Extermination of the Alien Red Mangrove Rhizophora mangle
Duffy, David C Department of Botany
Restore native coastline on Hawaii Island by removing invasive mangroves. Collect data to determine efficiency and benefits of mangrove eradication.
Gifts, Grants, and Contracts for September 2009

Research

Hawaii- Government Agencies

County of Hawaii

Innovative Practices to Sustain Sweet Potato Production
Miyasaka, Susan C Hawaii County CTAHR Extension and Research Office
The overall objective of this project is to improve the economic and environmental sustainability of sweet potato production along the Hamakua coast of Hawaii by demonstrating the benefits of clean-harvesting fields, crop rotation, and breeding for greater pest and disease resistance.

County of Hawaii - Civil Defense

Mapping Landslide Hazards on Hawaii Island
Nicholson, Peter G. Department of Civil and Environmental Engineering
Data collection and development of a database and digitized maps to indicate potential landslide hazards on the Island of Hawaii.

Defense, Dept - Civil Defense-HI

Tsunami Inundation Map for Hawaii
Cheung, Kwok Fai Department of Ocean and Resources Engineering
Develop tsunami inundation map for Hawaii.

Health, Dept - HI

Hawaii Asthma Friendly Pharmacy Project
Ma, Carolyn College of Pharmacy-UHH
Utilize pharmacies in improving care to asthma patients in Hawaii

Land & Natural Res, Dept - Div of Aquatic Resources-HI

Fish and Habitat Monitoring and Assessment: Year One
Duffy, David C Department of Botany
Monitor and assess marine ecosystems by collecting and compiling data on fish communities, mobile invertebrates, reef benthos, and water temperature and turbidity around Hawaii Island.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI

Research to Improve Estimates of Game Harvests and Hunting Participation in the State of Hawai`i Year 3
Lepczyk, Chris Department of Natural Resources and Environmental Management
The objectives of this study are to: 1) Determine problems and costs associated with improving the accuracy of game harvest estimates and hunter recreation in Hawai`i; 2) Devise strategies that reduce differences between the

Land & Natural Res, Dept - HI

Detection and Control of Invasive Species in Wao Kele o Puna on the Island of Hawaii
Duffy, David C Department of Botany
Survey and control invasive species in the forest reserve of Wao Kele o Puna on the island of Hawaii.

Land & Natural Res, Dept - HI

Kauai Endangered Forest Bird Conservation Research and Management
Duffy, David C Department of Botany
Continue research and field management to restore the endangered Puaiohi and other endangered native forest birds on Kauai.
Gifts, Grants, and Contracts for September 2009

Research

Hawaii- Government Agencies

Land & Natural Res, Dept - HI

Kauai Endangered Seabird Conservation Research and Management
Duffy, David C Department of Botany
Conduct research on the populations of endangered Kauai seabirds and make recommendations for conservation strategies.

Land & Natural Res, Dept - HI

Continuation of Development of a Statewide Rare Plant Tracking Database
Kaneshiro, Kenneth Y Pacific Biosciences Research Center
Second phase of a multi-year effort to establish a statewide technical framework and the necessary technical infrastructure for the management and reporting of rare species data in Hawaii.

Land & Natural Res, Dept - HI

Endangered Maui Forest Bird Population Research and Management
Duffy, David C Department of Botany
Research and manage recovery efforts for endangered Maui forest birds, including the Po'ouli.

Land & Natural Res, Dept - HI

Maui District Endangered Species Research
Duffy, David C Department of Botany
Research and monitor endangered seabirds on Maui, Molokai, and Lanai in conjunction with statewide, multi-agency seabird recovery research, planning, and management.

Land & Natural Res, Dept - HI

Development of a Habitat Conservation Plan for Game Mammal Management in North Kona, Hawaii
Duffy, David C Department of Botany
Conduct research to develop a conservation plan for game mammal management in conservation areas in Hawaii.

Land & Natural Res, Dept - HI

Forest Restoration on Mauna Kea
Duffy, David C Department of Botany
Restore native forest areas on Mauna Kea to mitigate the declining population of endangered native Palila, a finch-billed honeycreeper.

Land & Natural Res, Dept - HI

Natural Area Reserves Management
Duffy, David C Department of Botany
Add education and outreach component to existing Natural Area Reserves ecosystem research and management project.

Land & Natural Res, Dept - HI

Hawaiian Ecosystems Initiative: Koolau Watershed
Duffy, David C Department of Botany
Monitor game check stations and run transects in native forest areas to determine impacts of pigs and axis deer in the Koolau Watershed in Maui.
Gifts, Grants, and Contracts for September 2009

Research

Hawaii- Government Agencies

Public Safety, Dept - HI $106,310
Research and Training in Sex Offender Assessment and Treatment in Corrections
Coyne, Barry J School of Social Work
To coordinate and manage activities regarding research relating to the psychophysiological assessment of sexual offenders.

Transportation, Dept - HI $149,000
Detection Techniques and Quarantine Treatments for High Risk Commodities Identified by the Kahului Airport
Pest Risk Assessment
Hara, Arnold H Department of Plant and Environmental Protection Sciences
The objective of this project is to innovate detection techniques and develop safe and effective quarantine treatments for high risk commodities that are imported or shipped interisland as cargo.

Hawaii- Health Organizations

Kaiser Permanente - HI $17,462
Cardiovascular Research Network
Novotny, Rachel Department of Human Nutrition, Food and Animal Sciences
This project will involve Dr. Novotny serving as Site PI for Hawaii, to develop and participate in collaborative research projects with the other investigators on this NIH funded research project. This will involve participation in conference calls, development of research proposals, and participation in the project annual meeting.

Hawaii- Non-Profit Organizations

Tri-Isle Resource Conservation & Dev Council $76,000
East Maui Watershed Protection
Morden, Clifford W Department of Botany
Conduct applied conservation research and management to protect the native rainforests in East Maui's watershed.

Mainland- Business and Other

Booz, Allen & Hamilton Inc $21,000
Pacific Disaster Center Catastrophic Hurricane Planning
Gaines, James R Vice President for Research
The Pacific Disaster Center will provide technical assistance and support as part of FEMA’s Pacific and Hawaii Catastrophic Hurricane Readiness Response Planning effort.

Concurrent Technologies Corp $115,858
Hawaii Underwater Chemical Munitions Survey Plan
Syrmos, Vassilis L Vice Chancellor for Research and Graduate Education
To survey the Hawaiian Waters for Chemical Munitions.

Fugro EarthData, Inc. $131,705
Integrated Coral Reef Ecosystem Mapping and Monitoring
Friedlander, Alan M Department of Zoology
Organize previously collected data on marine protected areas in Hawaii into a database for web posting. Submit report and journal article on previously collected marine protected area data.
Gifts, Grants, and Contracts for September 2009

Research

Mainland- Business and Other

Jet Propulsion Lab

Precision Tests of Ultracool Dwarf Atmospheric Models
Liu, Michael C Institute for Astronomy
We will test current theoretical models of substellar atmospheres and evolution using brown dwarfs that are companions to main-sequence stars, where here are independent determinations of the ages and metallicities.

MVSystems, Inc

Photoelectrochemical Hydrogen Production
Miller, Eric L Hawaii Natural Energy Institute
An "energy economy" based on clean-burning hydrogen instead of fossil fuels will be an important part of our nation's future. In this research, the Hawaii Natural Energy Institute will be developing low cost photoelectrochemical devices to produce hydrogen directly from water using sunlight as the energy source.

Novartis Pharmaceuticals Corp

Does Finding, Safety and Efficacy of Monthly Subcutaneous Canakinumab Administration for the Treatment of Hyperglycemia in Metformin Monotherapy Treat
Arakaki, Richard F Department of Medicine
This study will investigate the safety and efficacy of monthly subcutaneous injections of Canakinumab for the treatment of hyperglycemia in patients with type 2 diabetes.

SWCA Environmental Consultants

Statewide Noxious Invasive Plant Program (SNIPP)
Duffy, David C Department of Botany
Perform survey of priority invasive and native plant species along Oahu roadways, report the data via GIS database, and conduct control of target invasive species.

Mainland- Health Organizations

American Cancer Society, Inc

Induction of Invasive Breast Cancer by Activated Form of Geminin
ElShamy, Wael Department of Pathology
Investigative ways: Geminin is turned on and turned off during cell division; contributing of two division inducing proteins; Aurora B kinase and topoisomerase llalpha (we discovered interact with Geminin) in its ability of Geminin to induce aneuploidy.

Children's Hospital Boston

The Relationship Between Mitochondrial Dysfunction and Insulin Resistance in HIV-Infected Children Receiving AntiRetroviral Therapy
Gerschenson, Mariana John A. Burns School of Medicine
Perform OXPHOS analysis on pediatric samples, perform data analysis and manuscript preparation.

Women & Infants Hospital of Rhode Island

Prenatal Methamphetamine Exposure and School Aged Outcome (IDEAL II)
Derauf, Donald C Department of Pediatrics
The major goal of this project is to study the effects of prenatal methamphetamine exposure on child outcomes.
Gifts, Grants, and Contracts for September 2009

Research

Mainland- Non-Profit Organizations

Consortium for Ocean Leadership  
Participation in IODP Research Cruise #324  
Garcia, Michael O  
Department of Geology and Geophysics  
Participation in IODP scientific expedition #324.  

Consortium for Ocean Leadership  
IODP Expedition Participation on Expedition 313  
Mottl, Michael J  
Department of Oceanography  
International marine research drilling program involving 20 nations. Mainly to conduct expeditions designed to advance scientific understanding of the Earth with other scientists.

University Corporation for Atmospheric Research  
Chromospheric Data from MOTH and TRACE  
Jefferies, Stuart M  
Institute for Astronomy  
To analyze simultaneous MOTH/MOTH II and TRACE observations and use them as a seismic probe of the chromosphere.

National Aeronautics and Space Administration

National Aeronautics & Space Administration  
The NASA Infrared Telescope Facility: Mission Support and Solar System Observations  
Tokunaga, Alan  
Institute for Astronomy  
We propose to provide NASA with observations and research data aimed at providing support of spacecraft missions and basic research in support of the Planetary Astronomy program.

National Aeronautics & Space Administration  
Aquarius Salinity Calibration, Error Quantification, Signal-to-Noise Analyses, and Resolution Studies Using Historical and Concurrent Data  
Maximenko, Nikolai A  
Department of Oceanography  
The project will use the Aquarius mission to provide the best possible product, to characterize the space-time variability of salinity fronts, to quantify and improve the accuracy and signal-to-noise characteristics of both gridded and along-track products, and to assess the value of Aquarius with respect to existing observations.

National Aeronautics & Space Administration  
Integrating MESSENGER Data to Investigate the Origin of Mercury's Intercrater and Smooth Plains Deposits  
Gillis-Davis, Jeffrey  
Hawaii Institute of Geophysics and Planetology  
The proposed work will investigate the origin of Mercury's Smooth plains and intercrater plains using data from the Mercury Surface, Space Environment, Geochemistry, and ranging (MESSENGER) mission. The main tasks of the proposal include: create a prioritized list of geologic targets, and integrate X-ray, gamma-ray, neutron, and spectral data to map these two units.

National Aeronautics & Space Administration  
APANL: InSAR and Thermal Analyses of Kuril-Kamchatka Volcanoes  
Brooks, Benjamin A  
Hawaii Institute of Geophysics and Planetology  
Relate remotely-sensed volcano deformation to eruptions.
Gifts, Grants, and Contracts for September 2009

Research

National Aeronautics and Space Administration

National Aeronautics & Space Administration 
The Nature of the Faintest Hard X-Ray AGN
Treister, Ezequiel  Institute for Astronomy
Measure and analyze the Compton reflection and other spectral components of 5 AGN using the Suzuka telescope.

National Science Foundation

National Science Foundation 
ARI-MA: Nuclear Materials Detection via Time-Encoded Differential Absorption and/or Differential Fluorescence
Madey, John  M J  Department of Physics and Astronomy
Proposed research is to develop and demonstrate an improved method for detection of fissile nuclear materials using techniques adapted from Laser Radar Systems and High Energy Physics, shifted to Gamma ray energies as required for detection of small, concealed quantities of Uranium and Plutonium.

National Science Foundation 
VOSS: Understanding Distributed Socio-Technical Systems
Suthers, Daniel  D  Department of Information and Computer Sciences
The goal is to understand how people interact in virtual organizations and communities, and improve the design technologies for such organizations. Towards this end, we will refine an analytic framework and software tools and apply them to understand the development of relationships and ideas in an online professional community.

National Science Foundation 
CAREER: Bridging Modern Computational Capabilities and Observations of Solar Magnetic Fields with Expanding Solar Physics Education at the University of Hawaii
Roussev, Ilia I  Institute for Astronomy
Supplemental funding request is to support graduate assistant travel to attend the 2009 SHINE conference in Nova Scotia, Canada.

National Science Foundation 
Decadal Upper Ocean Variability in the North Pacific: Mechanisms, Impact and Prediction
Qiu, Bo  Department of Oceanography
To improve our ability to predict the midlatitude Pacific climate variability and to better understand how the upper ocean dynamic and thermodynamic processes interact.

National Science Foundation 
Center for Microbial Oceanography: Research and Education (C-MORE)
Karl, David M.  Department of Oceanography
To establish a Center for Microbial Oceanography Research & Education (C-MORE) as a vehicle for rapid progress in the fields of microbial ecology any genomics, including research and education.

National Science Foundation 
Mechanisms and Effects of Tropical Indian Ocean Variability
Xie, Shang-Ping  Department of Meteorology
Conduct diagnostic and modeling studies of tropical Indian Ocean climate variability.
Gifts, Grants, and Contracts for September 2009

Research

National Science Foundation

A Study of Multiple Environmental Influences on the Lightning of a Continental Cumulonimbus Cloud Simulated by a Numerical Model
Phillips, Vaughan
Department of Meteorology
Atmospheric research.

National Science Foundation
Phylogeography and Evolution of Indo-Pacific Reef Fishes
Bowen, Brian R
Hawaii Institute of Marine Biology
P.I. and associates will perform DNA sequence comparisons in support of reef exploration.

The Development of Microbial Associations in Major Reef Building Corals of the Pacific Ocean
Rappe, Michael S.
Hawaii Institute of Marine Biology
We propose to monitor the development of a microbial flora during the developmental cycle of major reef building corals in Hawaii and Moorea using molecular biology techniques.

Collaborative Research: Earthquake Triggering by Slow Slip Events Beneath Kilauea's South Flank
Wolfe, Cecily Jo
Hawaii Institute of Geophysics and Planetology
Improvements on predicting earth movement from volcanic activity.

Collaborative Research: Nearby M Dwarf Stars as High-Priority Targets for Exoplanet Searches
Gaidos, Eric J.
Department of Geology and Geophysics
This program will identify nearby low-mass stars that are especially suitable targets for current and future planet searches.

Collaborative Research: Hotspot Rift Interaction & Geochemistry of the North Atlantic Mantle: A U.S.-Norwegian Expedition to Sample the Aegir Ridge "Hole" in the Iceland Hotspot
Apuzen-Ito, Garrett
Department of Geology and Geophysics
This is a U.S.-Norwegian seagoing program to sample an extinct spreading center in the North Atlantic, which was surrounded by volcanic activity of the Iceland hotspot. Onshore petrologic and geochemical analyses as well as a geodynamic modeling will reveal how the mantle convects and generates magma around Iceland and the mantle's geochemical characteristics & evolution.

Collaborative Research: Hawaiian Plume Heterogeneity Revealed by Kilauea's Ongoing Eruption, Prehistoric Lava and Olivine-hosted Melt Inclusions
Garcia, Michael O
Department of Geology and Geophysics
To investigate the petrology of Kilauea Volcano's new summit eruption, which has complicated our original hypothesis and work plan. Additional petrologic and geochemical analyses of tephra from the summit eruption will be done to compare these results with similar analyses of contemporaneous Puu Oo lavas.
Gifts, Grants, and Contracts for September 2009

Research

National Science Foundation

National Science Foundation $117,454
Robust Physiological Signal Extraction using High Precision Hardware and Personalized Signal Processing
Boric-Lubecke, Olga Department of Electrical Engineering
The research scope of this project is to develop data-driven solutions for extracting and interpreting physiological data obtained using robust Doppler radar sensing.

National Science Foundation $10,000
Retrodirective Antenna Arrays for Secure Data Transmission in Covert Terrestrial and Nanosatellite Sensor Networks (17U07UHShiro)
Shiroma, Wayne Akira Department of Electrical Engineering
Develop novel antennas and infrasound techniques for intelligence-gathering scenarios.

National Science Foundation $100,000
Retrodirective Antenna Arrays for Secure Data Transmission in Covert Terrestrial and Nanosatellite Sensor Networks (17U07UHShiro)
Shiroma, Wayne Akira Department of Electrical Engineering
Develop novel antennas and infrasound techniques for intelligence-gathering scenarios.

National Science Foundation $324,060
Collaborative Research: Southern Ocean Current Observations from the U.S. Antarctic Research Vessels, 2010-14
Firing, Eric Joint Institute for Marine and Atmospheric Research
To routinely acquire, process and archive ocean current measurements from hull-mounted shipboard acoustic Doppler current profilers (ADCPs) on board the RVIB Nathaniel B. Palmer and the ARSV Laurence M. Gould, operated by the United States Antarctic Program.

National Science Foundation $50,000
Research Starter Grant: Characterization of Genetic and Biochemical Mechanisms of Iron Acquisition by Pseudomonas mendocina strain ymp
Awaya, Jonathan Biology-UHH
Molecular microbiology in characterizing the iron uptake pathways within P. mendocina

National Science Foundation $141,664
MRI Acquisition: Hawaii-based Undergraduate Leadership in Astronomy [HULA] by Acquiring Instrumentation for an Educational In-Class Telescope
James, David Astronomy-UHH
Acquisition and development of research-grade instruments for installation on the new 36" Hoku Kea telescope on Mauna Kea

National Science Foundation $97,412
EAGER: Composite Adaptive Mirrors
Ftaclas, Christ Institute for Astronomy
Prepare innovative methods to create deformable mirrors that is easily scalable to larger mirrors.
Gifts, Grants, and Contracts for September 2009

Research

National Science Foundation

National Science Foundation
Development of the H4RG-15: A Low Cost, High Performance 4096x4096 pixel Array for Infrared Astronomy and the Building Block for Very Large IR Mosaic Focal Planes
Hodapp, Klaus W Institute for Astronomy
To demonstrate full production of a high performance 4Kx4K infrared array, the H4RG-15, with integrated application specific integrated circuit controller at an affordable 2 cents per pixel.

National Science Foundation
CPATH-2: Collaborative Research: Broadening Studio-Based Learning in Computing Education
Crosby, Martha E Department of Information and Computer Sciences
This collaborative project involves the University of Hawaii, Washington State University and Auburn University along with several other participating programs. This project implements and evaluates how studio-based learning techniques can be used to restructure computing education across the computer science curriculum.

National Science Foundation
Collaborative Research: II-New: Distributed Research Testbed (DiRT)
Casanova, Henri Alain Department of Information and Computer Sciences
Establishment of a distributed computing research testbed over the wide-area.

US Colleges and Universities

Arizona, University of
ASIC Development Testing for the James Webb Space Telescope
Hall, Donald N Institute for Astronomy
To continue the performance of application specific integrated circuit development testing for space telescopes.

Arizona, University of
Vegetation Phenology and Vegetation Index Products from Multiple Missions and Satellite Sensors
Miura, Tomoaki Department of Natural Resources and Environmental Management
Characterize the potential impacts of spectral bandpass differences across multi-sensors (AVHRR, MODIS, and VEGETATION) on the derived phenology and EVI/EVI-2 products, and derive spectral transformation equations accompanied with associated uncertainties. Assemble and stage 1 km daily MODIS data and limited sets of daily 1 km AVHRR and SPOT-4 VEGETATION data for regional-scale analyses (the conterminous USA). Assist in deriving a moderate resolution (500 m or 1 km), regional phenology product using daily 1 km MODIS reflectances with limited sets of daily 1 km AVHRR and SPOT-4 VEGETATION reflectances.

California Berkeley, University of
Collaborative Research with the SuperNova Integral Field Spectrograph (SNIFS) and the University of Hawaii 2.2 Meter Telescope
Aspin, Colin Institute for Astronomy
To continue collaboration with the Nearby Supernova Factory and the University of California in providing telescope time for the SNIFS instrument to conduct supernova studies.

Cornell University
Stardust-NExT Project
Meech, Karen J Institute for Astronomy
To define the rotation period of the comet to assess the observing strategy and to enable the determination of the appropriate strategies for targeting the impact crater on the flyby of comet 9P/Tempe 1.
Gifts, Grants, and Contracts for September 2009

Research

US Colleges and Universities

Maryland, University of  
EPOXI Mission  
Meech, Karen J  
Institute for Astronomy  
To reduce and analyze data obtained (including recovering the comet) and characterizing the nucleus for the EPOXI Mission.  

Mississippi, University of  
Remote Infrasonic Monitoring of Natural Hazards (RIM)  
Garces, Milton A  
Hawaii Institute of Geophysics and Planetology  
Develop infrasound technology to support NOAA monitoring in the US for severe weather, high surf, and tsunamis.  

Pittsburgh, University of  
Expansion and Synergistic Use of the ASTER Urgent Request Protocol (URP) for Natural Disaster Monitoring and Scientific Analysis  
Harris, Andrew J.L.  
Hawaii Institute of Geophysics and Planetology  
To detect and report on volcanic eruptions using satellite data.  

South Dakota State University  
Regional Biomass Feedstock Partnership - Herbaceous Bioenergy Crop Field Trials  
Uehara, Goro  
Department of Tropical Plant and Soil Sciences  
Five varieties of energycane will be studied to assess their growth and development for possible use as bioenergy feedstock crop under a Sun Grant program involving 7 states. Mississippi State University serves as the lead institution for the Department of Energy.  

Washington, University of  
The HOT Profiler: Supporting Activities at the University of Hawaii  
Howe, Bruce M  
Department of Ocean and Resources Engineering  
For the NSF-funded HOT Profiler mooring project, Bruce Howe will assist APL-UW in mooring design, logistics associated with deploying and recovering the mooring system at Station ALOHA north of Oahu, and data analysis, interpretation and publication.  

Subcount:  165  
Subtotal:  $47,917,183

Non-Research

DA-Dept of Agriculture

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED  
Agricultural Development in the American Pacific Year 22  
Hashimoto, Andrew G  
College of Tropical Agriculture and Human Resources  
The Agricultural Development in the American Pacific (ADAP) Project Year 22, funds a number of tasks with the goal of improving agricultural development across the Pacific. Year 22 include the following: Professional Development project, Management and Accountability project, & Food Security and Sufficiency project.  

$326,664
Gifts, Grants, and Contracts for September 2009

Non-Research

DA-Dept of Agriculture

Agriculture, Dept - FED

Digitizing Transactions of the Royal Hawaiian Agricultural Society (1850 -1856) and Planters' Monthly (1882-1894) Hawaiian Planters' Monthly (1895-1909)
Herring, Eileen
Library
Digitize from microfilm two 19th century Hawaii titles and make available on the Web via repository.

Agriculture, Dept - FED

Biotechnology Outreach Program
Wieczorek, Anna M.
Department of Tropical Plant and Soil Sciences
Improved understanding of agricultural biotechnology issues by growers, marketers, legislators and consumers.

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Agcy for Hlthcare Rsch & Qlty

Pacific Institute of Nursing Research Conference
Mark, Debra D
Department of Nursing
To provide funds for a pre-conference workshop as well as travel stipends for nurses from neighbor islands and the Pacific Rim to attend the PIN conference during the years 2009-2012.

Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)

Other Health Professions Programs (Earmarks)
Daub, Katharyn
Nursing-UHH
Develop a dual interdisciplinary grad program of study, specifically, a Family Nurse Practioner (FNP)/Doctor of Nursing Practice (DNP)/ PharmD program

Health & Human Svc, Dept - Sbstnc Abuse & Mntl Hlth Svcs Adm

UH Multi-Campus Suicide Prevention Project
Tanouye, Allyson M
Vice President for Student Affairs
Grant funds will allow for infrastructure and program enhancement across the 10-campus system of the University of Hawaii. Emphasis will be placed on general mental health promotion and risk reduction, suicide prevention, training, protocol and resource development, communication, diversity of students and tailored campus response.

Health & Human Svc, Dept/NIH - Natl Cancer Institute

Cancer Information Service
Vogel, Carl-Wilhelm
Cancer Research Center
The National Cancer Institute's cancer Information Service is a national resource for information and education about cancer, providing the latest and most accurate cancer information to patients and their families, the public, and health professionals. Hawaii's Partnership Program focuses on Native Hawaiians and other medically underserved populations in the US Pacific.
Gifts, Grants, and Contracts for September 2009

Non-Research

**DHHS-Dept of Health and Human Services**

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources

- Improving Animal Resources for Biomedical Research
  - Kondo, Sylvia Y
  - Laboratory Animal Service
  - Request funds to renovate the cage wash area in Biomedical Sciences Building.
  - $138,810

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources

- Master in Clinical Research
  - Harrigan, Rosanne C
  - Department of Complementary and Alternative Medicine
  - Offer Master's program in Clinical Research
  - $296,612

Health & Human Svc, Dept/NIH - Natl Ctr on Minority Hlth & Hlth Disparity

- Endowment for Cardiovascular Science
  - Hedges, Jerris
  - John A. Burns School of Medicine
  - The University of Hawaii (UH) John A. Burns School of Medicine (JABSOM) is submitting this application to establish an endowment focused on cardiovascular research, because cardiovascular disease is the primary cause of excess morbidity and mortality in our minority and medically-underserved citizens.
  - $312,500

Health & Human Svc, Dept/NIH - Natl Inst on Drug Abuse

- Neuroimaging and Mentoring in Drug Abuse Research
  - Chang, Linda
  - Department of Medicine
  - Support of 50% salary for PI to ensure protected time to conduct ongoing research and continue to mentor junior clinician scientists in research on HIV and methamphetamine abuse.
  - $189,468

**DOC-Dept of Commerce**

Commerce, Dept - Economic Dev Administration-FED

- UH-PBCP EDA University Center 2009-2010
  - Morton, John F
  - Vice President for Community Colleges
  - This Economic Development Administration University Center Program award supports the economic development and technical assistance work of the Pacific Business Center Program that will be provided to public and private sector clients located in Hawaii and throughout the American Affiliated Pacific Islands.
  - $220,000

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)

- HIMB-NOAA Fellowship Program
  - Lemus, Judith D
  - Hawaii Institute of Marine Biology
  - To place Hawaii graduate and undergraduate student fellows, particularly underrepresented minorities such as those of Native Hawaiian and Pacific Islander ancestry, in NOAA Pacific Region agency offices for one-year paid internships to acquire "real world" job experiences and skills.
  - $38,000

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)

- Western and Central Pacific and Hawaii Fishery Sustainability: Impacts and Implications of Future Climate Change on Fisheries
  - Okimoto, Darren K
  - Sea Grant College Program
  - UH Sea Grant proposes to generate a case study on the impact of climate change on Pacific Ocean fisheries through a partnership with UH SOEST and NOAA NMFS.
  - $30,000
Gifts, Grants, and Contracts for September 2009

Non-Research

DOI-Dept of Interior

Interior, Dept - FED
Website Development for the Hawaii-Pacific Islands CESU
Duffy, David C Department of Botany
Develop website for the Hawaii Pacific Islands Cooperative Ecosystem Studies Unit $1,000

Interior, Dept - FED
Avian Influenza Morbidity and Mortality Surveillance in the Hawaiian Islands: BIISC, KISC, MISC, OISC
Duffy, David C Department of Botany
Conduct surveillance for dead birds, monitoring for West Nile virus and Avian influenza. $15,000

Interior, Dept - National Park Service
Support for a Coordinator for the Coordinating Group on Alien Pest Species
Duffy, David C Department of Botany
Assist the Coordinating Group on Alien Species with Collaborative projects to reduce invasive aliens species in Hawaii. $5,400

Interior, Dept - National Park Service
Honouliuli Internment Camp
Falgout, Suzanne Chancellor, University of Hawaii at West Oahu
Multidisciplinary UHWO project will research & educate about Honouliuli Internment Camp. Two summer archaeological field schools will teach methods & techniques of historic archaeology. Archival and oral historic research by faculty & students will focus on those interred, their descendants, and others who interacted. $26,148

Interior, Dept - National Park Service
Captive on the U.S. Mainland: Oral Histories of Hawaii-born Nisei
Nishimoto, Warren S Social Science Research Institute
The proposed project will collect and disseminate oral histories with Hawaii-born Japanese Americans who were removed from their places of study, training or employment on the West Coast and incarcerated in various assembly centers and relocation camps during World War II. $14,955

Interior, Dept - U.S. Geological Survey
Biodiversity Research Program
Sakamoto, Clyde M Chancellor, Maui Community College
This cooperative agreement will allow USGS to co-locate at Maui Community College and involve students, faculty and staff to participate in biodiversity research and fieldwork including the modeling of spatial data. $44,971

ED-Dept of Education

Education, Dept - FED
Student Support Services Program
Yoshimoto, Melven M Vice Chancellor for Academic Affairs
Provide services and activities to increase retention and graduation rates of program-eligible students; foster campus climate to support students' success. $403,919
Gifts, Grants, and Contracts for September 2009

Non-Research

ED-Dept of Education

Education, Dept - FED  
Clinical Pharmacy Training Program and Applied Rural Science Program FY 09  
Pezzuto, John  
College of Pharmacy-UHH  
Enhance the clinical pharmacy training and applied rural science programs conducted by UHH  
$951,000

Education, Dept - FED  
Heluhelu Maoli: Building Strong Foundations in Reading and Mathematics  
Lai, Morris K  
Curriculum Research and Development Group  
Heluhelu Maoli is a three-year project designed to provide strategic supports that build foundational concepts and knowledge in K-3 Hawaiian students. The project identifies struggling students, provides interventions for them and assists them before they fall behind, and uses high-quality instruction for all students.  
$1,016,255

Education, Dept - FED  
Kako'o Ikaika: Supporting Adolescent Hawaiian Students to Achieve High Standards  
Lai, Morris K  
Curriculum Research and Development Group  
Kako'o Ikaika is a three-year project designed to help six secondary schools with large numbers of Native Hawaiian students to achieve high standards and graduation rates. The project will help build a school-wide model that provides a multi-tiered system for literacy and behavior supports.  
$823,711

Education, Dept - FED  
Windward Community college Educational Talent Search Program -Windward  
Oliveira, Judy  
Chancellor, Windward Community College  
$226,600

Education, Dept - FED  
Windward Community College Educational Talent Search Program - Honolulu  
Oliveira, Judy  
Chancellor, Windward Community College  
$226,600

Education, Dept - FED  
Student Support Services  
Inouye, Roy Owen  
Chancellor, Windward Community College  
Support services for low income, first generation and disabled students.  
$390,391

Education, Dept - FED  
Maui Community College Student Support Services Program  
Tagomori, Alvin R  
Chancellor, Maui Community College  
A program designed to promote postsecondary education for low-income, first generation MCC students.  
$267,613

Education, Dept - FED  
Sulong-Aral: A Program to Provide College Preparatory Education for Filipino Students  
Pecsok, Michael H  
Chancellor, Leeward Community College  
To increase postsecondary access for Filipino high school students from Oahu communities, raise persistence and completion rate of Filipino students at Leeward Community College, and increase the transfer rate of Filipino community college students into baccalaureate programs at the University of Hawaii at Manoa.  
$238,000
Gifts, Grants, and Contracts for September 2009

Non-Research

ED-Dept of Education

Education, Dept - FED
Kapiolani Community College - TRIO Student Support Services
Furuno, Nora M  Chancellor, Kapiolani Community College
Support services (academic and non-academic) for eligible low income, first generation in college, and students with disabilities enrolled at Kapiolani Community College. At selected participants must demonstrate need for academic support.

Education, Dept - FED
PRIDE Project TRIO-SS
Suda, Jolene  Chancellor, Honolulu Community College
Provide opportunities for academic development, assist students with basic college requirements, and motivate students towards the successful completion of their post secondary education. Increase college retention, graduation rates and help with transition from one leve of higher education to the next. Meet grant objectives.

Education, Dept - FED
Student Support Services Program, fy 09
Johnson, Melissa  Vice Chancellor for Student Affairs-UHH

Education, Dept - FED
Ka Huli Ao Center for Excellence in Native Hawaiian Law
Soifer, Aviam  William Richardson School of Law
To refine program objectives and activities to enable the Center to further it's mission to educate all the people of Hawaii on legal issues of particular significance to the Native Hawaiian community.

Education, Dept - Ofc of Postsecondary Ed-FED
The University of Hawaii at Manoa Educational Talent Search Program (METS)
Goo, Maile S.  Vice Chancellor for Student Affairs
The University of Hawaii at Manoa Education Talent Search program will serve 600 participants from 3 schools in the Leeward district of Oahu. Two-thirds of participants will be low-income families and will be potential first-generation college students. Comprehensive educational support services will be provided to ensure education success.

Education, Dept - Ofc of Postsecondary Ed-FED
Kokua a Puni - Native Hawaiian Student Service Program
Freitas, Antoinette K  Hawai‘inulakea School of Hawaiian Knowledge
Supplemental award for technology innovation activities related to three Kokua a Puni development grant activities

Federal Agencies

Housing & Urban Development, Dept - FED
Waikalua Loko Fishpond Project
Dykstra, Douglas  Chancellor, Hawaii Community College
Windward Community College in partnership with the Pacific American Foundation, proposes the acquisition of the Waikalua Loko Fishpond. Following the acquisition of the property, clearance of the land will make way for educational and cultural programming designed to enhance stewardship and preservation of the fishpond.
Gifts, Grants, and Contracts for September 2009

Non-Research

Federal Agencies

Justice, Dept - FED $500,000
  Hawaii Innocence Project
  Soifer, Aviam William Richardson School of Law
  Provide legal assistance, free of charge, to prisoners who have a credible claim of actual innocence of the crime(s) for which they are imprisoned.

Smithsonian Institution $139,039
  Submillimeter Array Post Doctoral Fellowship
  McLaren, Robert A Institute for Astronomy
  The Smithsonian Institution Astrophysical Observatory continues funding of the Submillimeter Array Post Doctoral Fellowship. The fellows will carry out research with the Submillimeter Array telescope located at Mauna Kea and will contribute to research activities and facilitate interaction with other scientists within the Institute for Astronomy.

Veterans Affairs, Dept - FED $312,384
  VA Nursing Academy: Enhancing Academic Partnerships Program
  Ishida, Dianne N Department of Nursing
  The VA Pacific Islands Health Care System and the University of Hawaii at Manoa School of Nursing and Dental Hygiene propose to plan, develop, implement, and evaluate an academic partnership to build sustained capacity for nursing practice and education in Hawaii and the Pacific Islands.

Foreign

High Energy Accelerator Research Orgn (KEK) $36,873
  JFY 2009 US Japan Program for Cooperation in High energy Physics for the High Luminosity R&D
  Varner, Gary S Department of Physics and Astronomy
  Complete integration of the STURM II chip into a test bench that consists of sub-nanosecond timing solid-state sensors, fast Field Programmable Gate arrays, giga-bit fiber optic links and XMC PCI express data acquisition card in compact PCI crate with CPU.

Nagoya University $26,500
  xTOP Readout Purchase
  Varner, Gary S Department of Physics and Astronomy
  Fabrication, assembly, test and delivery of 4 Hamamatsu SL-10 PMT Readout Modules and FINESSE cards
  Task includes calibration and testing, documentation, and extensive engineering application support.

Hawaii- Business and Other

Alu Like, Inc $110,544
  Fishery Observer: Preparatory Course (FOTP 8)
  Hunter, Cynthia L. Biology Program
  Organize and conduct a course in fisheries observer preparation and training in September and December, 2009.

Alu Like, Inc $130,000
  Ulukau 60 Titles
  Donaghy, Joseph Ka Haka'Ula O Ke'Elikolani-UHH
  Identify, secure copyright license approval, digitize and place 60 titles on Ulukau
Gifts, Grants, and Contracts for September 2009

Non-Research

Hawaii- Business and Other

Hawaiian Electric Co, Inc $27,500
Data Acquisition System Troubleshooting, Repair, Monitoring, and Maintenance of Photovoltaic Systems* for HECO SunPower for Schools Program
Miller, Eric L Hawaii Natural Energy Institute
The Hawaii Natural Energy Institute (HNEI) at the University of Hawaii at Manoa (UH) will perform consulting work for the Hawaiian Electric Company (HECO), providing recommendations for repairing, maintaining and operation data acquisition systems at HECO-specified photovoltaic installation sites in the "SunPower for Schools" program.

Hawaiian Electric Co, Inc $473,972
Oahu Electrical System Analysis
Rocheleau, Richard E Hawaii Natural Energy Institute
Collect data and perform preliminary analysis of the suitability of this data for future model (MAPS and PSLF models) development of the Oahu Electric Company (HECO) grid. These models will provide valuable insights.

Hawaii- Government Agencies

Commerce & Consumer Affairs, Dept - HI $35,005
Automotive Service Excellence (ASE) Motor Vehicle Certification Program
Silliman, Mark D Chancellor, Honolulu Community College
Plan, coordinate, and deliver Automotive Service Excellence (ASE) training and administer ASE examination.

County of Maui $86,872
Maui County Coastal Processes Extension Project, Year 13
Norcross, Zoe M Sea Grant College Program
The main goals of the project are to preserve coastal resources, to reduce the damage to property and risks to human health and safety caused by coastal hazards, and to enhance shoreline processes education in Maui County.

Health, Dept - Child & Adolescent Mntl Hlth Div-HI $241,264
Clinical Therapy and Assessment, Department of Health
Nakamura, Brad J Department of Psychology
To provide psychological treatment and assessment of children struggling with emotional and/or behavioral difficulties. This project trains graduate student clinicians and offers children and families needed psychological services.

Health, Dept - HI $4,900
School Based Influenza Vaccination Program Memorandum of Agreement
Qureshi, Kristine School of Nursing and Dental Hygiene
School Based Influenza Vaccination Program.

Health, Dept - HI $115,000
Sexual Violence Prevention Project
Quemuel, Christine A Vice Chancellor for Student Affairs
The UHM Women's Center will pilot the development of a model for permanent campuses infrastructure to address sexual violence prevention and victim services at Hawaii Community College and Honolulu Community College, followed by implementation at all other UH campuses in following years.
Gifts, Grants, and Contracts for September 2009

Non-Research

Hawaii- Government Agencies

Human Services, Dept - HI
Vocational Rehabilitation Needs Assessment
Izutsu, Satoru
John A. Burns School of Medicine
Conduct assessment of VR service outcomes, conduct assessment of consumer satisfaction with VR services, conduct assessment of long-term VR service impact, produce a grant project consistent with Rehab Act priorities, provide technical assistance, provide website, determine VR needs of persons with mental emotional disabilities, provide services for SRC. $419,552

Land & Natural Res, Dept - HI
Kipuka 21 Nature Trail Development and Management
Duffy, David C
Department of Botany
Development and manage a public access trail in Kipuka 21 on the Big Island. $40,000

Land & Natural Res, Dept - HI
Impact of Cruise Ship Visitors on Recreation Patterns in the State of Hawaii
Hunter, Cynthia L.
Waikiki Aquarium
Determine impact of tourist cruise participants on coral reef health in Hawaii. $2,997

Land & Natural Res, Dept - HI
Maintenance of Research and Services by the Hawaii Cooperative Fishery Research Unit
Birkeland, Charles
Department of Zoology
Hawaii Cooperative Fishery Research Unit will administer and advise graduate student research, teach graduate courses, and do research on topics of importance to the State of Hawaii. $20,000

Public Safety, Dept - HI
Sex Offender Program Officer
Matsuoka, Jon K
School of Social Work
To provide a clinical director who is experienced in the administration of sex abuse education and treatment services in a correctional institution. $174,852

Hawaii- Health Organizations

Elam Sports, Inc
University of Hawaii at Manoa Advanced Athletic Training Graduate Assistantship Program - Elam Sport Oahu (2009-2011)
Kimura, Iris F
Kinesiology and Leisure Science Department
‘Advanced education and research internship experience: A Board of Certification Athletic Trainer will participate in clinical and research experiences in order to enhance the educational and research application of athletic training/sport medicine practice. $1,465

Elam Sports, Inc
University of Hawaii at Manoa Advanced Athletic Training Graduate Assistantship Program - Elam Sport Oahu (2009-2011)
Kimura, Iris F
Kinesiology and Leisure Science Department
‘Advanced education and research internship experience: A Board of Certification Athletic Trainer will participate in clinical and research experiences in order to enhance the educational and research application of athletic training/sport medicine practice. $1,409
Gifts, Grants, and Contracts for September 2009

Non-Research

Hawaii- Health Organizations

University Clinical, Ed & Research Assoc. (UCERA) $40,595
Reimbursement Agreement - FY 2010 Agreement No. SF10-UCERA-INTL
Izutsu, Satoru John A. Burns School of Medicine
Agreement to provide physician and physician related services for FY2010

University Clinical, Ed & Research Assoc. (UCERA) $882,259
Reimbursement Agreement - FY2010 Agreement No., SF10-UCERA-GERI
Masaki, Kamal H Department of Geriatric Medicine
Agreement to provide physician and physician related services for FY2010.

University Clinical, Ed & Research Assoc. (UCERA) $1,006,090
Reimbursement Agreement - FY2010 Agreement No., SF10-UCERA-SURG
Takanishi, Danny M Jr. Department of Surgery
Agreement to provide physician and physician related services for FY2010

University Clinical, Ed & Research Assoc. (UCERA) $104,586
Reimbursement Agreement - FY2010 Agreement No., SF10-UCERA-MED
Tam, Elizabeth K Department of Medicine
Agreement to provide physician and physician related services for FY2010

University Clinical, Ed & Research Assoc. (UCERA) $3,091,696
Reimbursement Agreement - SF2010 Agreement No., SF10-UCERA-OBGYN
Millar, Lynnae K Department of Obstetrics, Gynecology, and Women's Health
Agreement to provide physician and physician related services for FY2010

University Clinical, Ed & Research Assoc. (UCERA) $29,474
Reimbursement Agreement - FY2010 Agreement No., SF10-UCERA-PEDS
Rudoy, Raul C Department of Pediatrics
Agreement to provide physician and physician-related services for FY2010

Hawaii- Non-Profit Organizations

Lanai Culture & Heritage Center $19,428
An Oral History of the Community of Lanai City, Lanai
Nishimoto, Warren S Social Science Research Institute
This project proposes to conduct, preserve, and disseminate life history interviews with twenty (20) longtime residents of Lanai City, Lanai, who have witnessed and participated in the many developments in the island’s history.

University of Hawaii Foundation $109,000
English Language Training Capacity at Hanoi University, Vietnam Fund
Bui, Tung X Shidler College of Business
Strengthen English language pedagogy & capacity in Vietnam.
Gifts, Grants, and Contracts for September 2009

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation

Maunalua Bay Coastal and Watershed Coordinator
Lerner, Darren T
Sea Grant College Program
Continuation of work by Sea Grant, Malama Maunalua, and its partners, in restoring a healthy, sustainable, and resilient ecosystem in the bay and the watersheds that support it.

University of Hawaii Foundation

Community-Based Coral Reef Awareness & Management in West Hawaii
Grau, E Gordon
Sea Grant College Program
In partnership with the Harold K.L. Castle Foundation & the Managing Better Together cadre, UH Sea Grant will advance coastal & ocean literacy in West Hawaii by providing formal & informal learning opportunities at schools, community meetings & events, public presentations, & other educational forums on Hawaii Island.

University of Hawaii Foundation

Support of a Marine Science Learning Center at Moku o Lo'e
Rivera, Malia Ana J
Hawaii Institute of Marine Biology
Support to develop a marine science learning center at Moku o Lo'e (Hawaii Institute of Marine Biology).

University of Hawaii Foundation

P-3 Evaluation/External Evaluator
Johnsrud, Linda K
Vice President for Academic Planning and Policy
To perform evaluation services to support grant deliverables with the goal of every child reading at grade level by grade 3. The data will be used to identify strategies to be replicated in other communities to achieve grant deliverables.

University of Hawaii Foundation

Rama Watumull Distinguished Indian Scholar
Shankar, Subramanian
Center for South Asian Studies
To sponsor the Rama Watumull Distinguished Indian Scholar personnel and travel expenses. Travel amount is for scholar to use to attend a conference while in Hawaii.

University of Hawaii Foundation

Promising Practices
Johnsrud, Linda K
Vice President for Academic Planning and Policy
To pay for P-20 Administrative salary & fringe charges and for consultant services to develop a recognition program framework that recognizes and promotes effective strategies for teaching and learning needed to reach the goal of every child reading on grade level by the third grade.

University of Hawaii Foundation

Basic Institutional Needs
Sohn, Ho-Min
Center for Korean Studies
Pay for student salaries.

University of Hawaii Foundation

International Longevity Center
Hayashida, Cullen
Chancellor, Kapiolani Community College
Expand gerontology program by creating an entry level paraprofessional training.
Gifts, Grants, and Contracts for September 2009

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation
Confucius Institute Support
Lau, Frederick C.  Center for Chinese Studies
Provides salaries, stipends, and fringe benefits for Confucius Institute support personnel, and misc. office expenses and express mail payments for CI office operations.

University of Hawaii Foundation
Arts & Humanities Faculty Support
Lee, Hye-Ryoon  College of Arts and Humanities
To support the salaries and fringe benefits costs of faculty in the College of Arts and Humanities.

Mainland- Business and Other

Boeing Laser Technical Services
NFIRE Lasercom
Kuhn, Jeffrey R.  Institute for Astronomy
Provide electrical and computer cables to Maui facility. Provide access to 2 technicians to Maui facility.

Phenomix Corporation
A Randomized, Double-Blind, Placebo- and Sitagliptin-Controlled, Multi-Center Study to Evaluate Safety and Efficacy of Dutogliptin in Type 2 Diabetes
Arakaki, Richard F  Department of Medicine
This study will investigate the safety and efficacy of the drug Dutogliptin in participants with Type 2 Diabetes who have moderate and severe renal impairment, including subjects on hemodialysis.

Space Telescope Science Institute
Directly Detecting and Analyzing the First Self-Luminous Exoplanets around Sunlike Stars: A High-Contrast Survey of Close, Young Stars
Liu, Michael C  Institute for Astronomy
Directly measuring colors, spectra, and luminosities with provide direct constraints on the temperatures and compositions of these objects, as well as clearly testing model predications.

Space Telescope Science Institute
Hubble Postdoctoral Fellowship - Adam L. Kraus - Star Formation and the Architecture of Outer Planetary Systems
Liu, Michael C  Institute for Astronomy--Director
I will pursue two revolutionary new programs that address a proper motion survey of the internal kinematics of star-forming regions and an imaging survey that exploits new interferometric techniques.

Mainland- Non-Profit Organizations

American Society for Engineering Education
SMART Defense Scholarship for Thomas Ryan Swindle
Barnes, Joshua E  Institute for Astronomy
The Smithsonian Institution Astrophysical Observatory continues funding of the Submillimeter Array Post Doctoral Fellowship. The fellos will carry out research with the Submillimeter Array telescope located at Mauna Kea and will contribute to research activities and facilitate interaction with other scientists within the Institute for Astronomy.
**Gifts, Grants, and Contracts for September 2009**

**Non-Research**

**Mainland- Non-Profit Organizations**

Community Colleges for International Development, Inc.  
CCID - Egypt Grant  
Goodman, James  
Chancellor, Leeward Community College

LCC will receive funding to support a cohort size of 8 students from Egypt to attend LCC, take English courses in the English Language Institute if needed and take credit courses to achieve certificates in the area of studies chosen by the student. Three students will take digital media courses, three will take business and two TV Pro.

Monsanto Fund  
Curriculum Development for Highly Qualified Teacher Courses  
Irwin, Sally  
Chancellor, Maui Community College

This proposal seeks funding to promote curriculum in two crucial areas of science education in an effort to improve the retention and level of scientific knowledge achieved in Maui County School Students.

National Academies  
Ford Foundation Diversity Fellowship for AY 2009-10  
Garrod, Peter V  
Graduate and Professional Education

Cost of education awards to support award recipients.

**National Aeronautics and Space Administration**

Connecting and Constraining Data-Driven Solar Atmosphere Models Through Observations: Studying EUV Emission in Realistic Flare-CME Environments - C. Dawns  
Roussev, Ilia I  
Institute for Astronomy

This project aims to include the important physics of Extreme Ultraviolet emission into a global 3D model of the solar atmosphere. This improved model will be used to best constrain observable properties of the corona as well as initiation mechanisms and subsequent evolution of solar flares and Coronal Mass Ejections.

**National Science Foundation**

IMUA 2: NSF Hawaii EPSCoR  
Gaines, James R  
Vice President for Research

Extend critical support personnel. Expand STEM activities in K-12 and at Kapiolani CC.

IMUA III: Pacific High Island Evolutionary Biogeography: Impacts of Invasive Species, Anthropogenic Activity and Climate Change on Hawaiian Focal Species  
Gaines, James R  
Vice President for Research

This capacity building proposal will enhance our science and technology capabilities for understanding and predicting how invasive species, anthropogenic activities and climate change impact the biodiversity, ecosystem function and current or potential human use of Hawaiian focal species and includes education, outreach and workforce components.
Gifts, Grants, and Contracts for September 2009

Non-Research

**National Science Foundation**

- **Collaborative Research: PACMAN -- Cyberinfrastructure for Discovering Climate Change Impacts on Water Resources Across Alaska and the Hawaiian Islands**
  - Gaines, James R
  - Vice President for Research
  - The 3-year project seeks to develop and demonstrate the capability of a Pacific Area Climate Monitoring and Analysis Network (PACMAN) designed to yield a more reliable understanding of the impacts of climate change on fresh water resources in Hawaii and Alaska.
  - $3,000,000

- **EAGER Collaborative Research: The Basalt-Hosted Biosphere Observatory at North Pond, Advanced Instrumentation for Transformative Science**
  - Cowen, James P
  - Department of Oceanography
  - Fabricating a third seafloor cork instrument sled (3rd of 3).
  - $147,686

- **2009 Shipboard Scientific Support Equipment**
  - Shor, Alexander N
  - School of Ocean and Earth Science and Technology
  - Requisition to augment shipboard scientific equipment of R/V Kilo Moana.
  - $861,092

- **Hawaii-Vancouver Education, Assessment, and Articulation Planning Visit: Vancouver, Canada, July-August 2009**
  - Taylor, Stephen V
  - Chancellor, Kauai Community College
  - Kauai Community College requests $6600 for a planning visit to the University of British Columbia, Vancouver, where participants from University of Hawaii at Manoa, Kauai Community College, and University of British Columbia will collaborate on environmental and global change education.
  - $6,600

- **MRI: Acquisition of a Versatile Single Cell Labeling and High Resolution Multi-Channel Imaging System**
  - Martindale, Mark Q.
  - Pacific Biosciences Research Center
  - Acquisition of major research instrumentation to enhance and develop the following systems: (1) microinjection (fluorescent dissecting microscope, hydraulic micromanipulator system, Eppendorf FemtoJet injection system); (2) ballistic delivery (Gene Gun); and (3) multi-channel high resolution imaging (confocal microscope).
  - $470,751

- **FSML: Improvements at the Kewalo Marine Laboratory**
  - Martindale, Mark Q.
  - Pacific Biosciences Research Center
  - Improving infrastructure at Kewalo Marine Laboratory.
  - $174,206

**US Colleges and Universities**

- **California San Francisco, University of**
  - **HIV Care Services Training & Educational Services**
  - Goshima, Cyril K
  - Department of Psychiatry
  - Provide HIV/AIDS Care Services Training and Educational Services to health care providers in Hawaii and South Pacific.
  - $334,568

Subcount: 93  
Subtotal: $29,307,735
Gifts, Grants, and Contracts for September 2009

Count: 258

Total: $77,224,918
Funds Received from UH Foundation for 09/01/2009 - 09/30/2009

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation  
"English Language Training Capacity at Hanoi University, Vietnam Fund"  
Bui, Tung  
Shidler College of Business  
Strengthen English language pedagogy & capacity in Vietnam.  

University of Hawaii Foundation  
"Community-Based Coral Reef Awareness & Management in West Hawaii"  
Grau, E  Gordon  
Sea Grant College Program  
In partnership with the Harold K.L. Castle Foundation & the Managing Better Together cadre, UH Sea Grant will advance coastal & ocean literacy in West Hawaii by providing formal & informal learning opportunities at schools.  

University of Hawaii Foundation  
"International Longevity Center"  
Hayashida, Cullen  
Chancellor, Kapiolani Community College  
Expand gerontology program by creating an entry level paraprofessional training.  

University of Hawaii Foundation  
"Promising Practices"  
Johnsrud, Linda  K  
Vice President for Academic Planning and Policy  
To pay for P-20 Administrative salary & fringe charges and for consultant services to develop a recognition program framework that recognizes and promotes effective strategies for teaching and learning needed to reach the goal of every child reading on grade level by the third grade.  

University of Hawaii Foundation  
"P-3 Evaluation/External Evaluator"  
Johnsrud, Linda  K  
Vice President for Academic Planning and Policy  
To perform evaluation services to support grant deliverables with the goal of every child reading at grade level by grade.  

University of Hawaii Foundation  
"Confucius Institute Support"  
Lau, Frederick C.  
Center for Chinese Studies  
Provides salaries, stipends, and fringe benefits for Confucius Institute support personnel, and misc. office expenses.  

University of Hawaii Foundation  
"Arts & Humanities Faculty Support"  
Lee, Hye-Ryeon  
College of Arts and Humanities  
To support the salaries and fringe benefits costs of faculty in the College of Arts and Humanities.  

University of Hawaii Foundation  
"Maunalua Bay Coastal and Watershed Coordinator"  
Lerner, Darren T  
Sea Grant College Program  
Continuation of work by Sea Grant, Malama Maunalua, and its partners, in restoring a healthy, sustainable, and resilient...
## Funds Received from UH Foundation for 09/01/2009 - 09/30/2009

### Non-Research

**Hawaii- Non-Profit Organizations**

<table>
<thead>
<tr>
<th>Institution</th>
<th>Amount</th>
<th>Project Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Hawaii Foundation</td>
<td>$401,068</td>
<td>Support to develop a marine science learning center at Moku o Lo'e (Hawaii Institute of Marine Biology)</td>
</tr>
<tr>
<td>Shankar, Subramanian</td>
<td>$33,000</td>
<td>To sponsor the Rama Watumull Distinguished Indian Scholar personnel and travel expenses. Travel amount is for scholar to use to attend a conference while in Hawaii.</td>
</tr>
<tr>
<td>Sohn, Ho-Min</td>
<td>$15,000</td>
<td>Pay for student salaries.</td>
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</table>

**Total:** $1,059,928

**Count:** 11
Extramural Research Awards
for the Month of
September 2009
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>15</td>
<td>$2,309,624</td>
<td>4.82%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>17</td>
<td>$12,444,641</td>
<td>25.97%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>19</td>
<td>$11,525,918</td>
<td>24.05%</td>
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<tr>
<td>DOD-Department of Defense</td>
<td>11</td>
<td>$1,965,855</td>
<td>4.10%</td>
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<tr>
<td>DOE-Dept of Energy</td>
<td>8</td>
<td>$853,631</td>
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<td>DOI-Dept of Interior</td>
<td>12</td>
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<td>ED-Dept of Education</td>
<td>4</td>
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<tr>
<td>Foreign</td>
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<td>$832,633</td>
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<tr>
<td>Hawaii- Business and Other</td>
<td>3</td>
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<tr>
<td>Hawaii- Government Agencies</td>
<td>18</td>
<td>$1,401,842</td>
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<tr>
<td>Hawaii- Health Organizations</td>
<td>1</td>
<td>$17,462</td>
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<tr>
<td>Hawaii- Non-Profit Organizations</td>
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<td>$76,000</td>
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<tr>
<td>Mainland- Business and Other</td>
<td>7</td>
<td>$878,450</td>
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<tr>
<td>Mainland- Health Organizations</td>
<td>3</td>
<td>$1,134,393</td>
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</tr>
<tr>
<td>Mainland- Non-Profit Organizations</td>
<td>3</td>
<td>$169,066</td>
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<tr>
<td>National Aeronautics and Space Administration</td>
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<td>$958,937</td>
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<tr>
<td>National Science Foundation</td>
<td>23</td>
<td>$11,126,613</td>
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<tr>
<td>US Colleges and Universities</td>
<td>9</td>
<td>$904,939</td>
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<tr>
<td><strong>Total:</strong></td>
<td><strong>165</strong></td>
<td><strong>$47,917,183</strong></td>
<td><strong>100%</strong></td>
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Extramural Non-Research Awards
for the Month of
September 2009
Distribution by Sponsors

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<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
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<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>3</td>
<td>$386,607</td>
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<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>8</td>
<td>$1,575,845</td>
<td>5.38%</td>
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<tr>
<td>DOC-Dept of Commerce</td>
<td>3</td>
<td>$288,000</td>
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<tr>
<td>DOI-Dept of Interior</td>
<td>6</td>
<td>$107,474</td>
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</tr>
<tr>
<td>ED-Dept of Education</td>
<td>15</td>
<td>$7,342,085</td>
<td>25.05%</td>
</tr>
<tr>
<td>Federal Agencies</td>
<td>4</td>
<td>$1,750,741</td>
<td>5.97%</td>
</tr>
<tr>
<td>Foreign</td>
<td>2</td>
<td>$63,373</td>
<td>0.22%</td>
</tr>
<tr>
<td>Hawaii- Business and Other</td>
<td>4</td>
<td>$742,016</td>
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</tr>
<tr>
<td>Hawaii- Government Agencies</td>
<td>10</td>
<td>$1,140,442</td>
<td>3.89%</td>
</tr>
<tr>
<td>Hawaii- Health Organizations</td>
<td>8</td>
<td>$5,157,574</td>
<td>17.60%</td>
</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
<td>12</td>
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<td>3.68%</td>
</tr>
<tr>
<td>Mainland- Business and Other</td>
<td>4</td>
<td>$339,163</td>
<td>1.16%</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
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<td>$60,156</td>
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<tr>
<td>National Aeronautics and Space Administration</td>
<td>1</td>
<td>$30,000</td>
<td>0.10%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>8</td>
<td>$8,910,335</td>
<td>30.40%</td>
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<tr>
<td>US Colleges and Universities</td>
<td>1</td>
<td>$334,568</td>
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<tr>
<td><strong>Total:</strong></td>
<td><strong>93</strong></td>
<td><strong>$29,307,735</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>


Extramural Research Awards
Year to Date: 07/01/09 - 09/30/09
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>35</td>
<td>$5,338,412</td>
<td>5.10%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>53</td>
<td>$27,938,915</td>
<td>26.68%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>57</td>
<td>$22,879,323</td>
<td>21.85%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>22</td>
<td>$4,157,248</td>
<td>3.97%</td>
</tr>
<tr>
<td>DOE-Dept of Energy</td>
<td>10</td>
<td>$1,114,550</td>
<td>1.06%</td>
</tr>
<tr>
<td>DOI-Dept of Interior</td>
<td>29</td>
<td>$1,594,868</td>
<td>1.52%</td>
</tr>
<tr>
<td>ED-Dept of Education</td>
<td>5</td>
<td>$672,198</td>
<td>0.64%</td>
</tr>
<tr>
<td>Federal Agencies</td>
<td></td>
<td>-$164</td>
<td>0.00%</td>
</tr>
<tr>
<td>Foreign</td>
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<td>$1,019,141</td>
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</tr>
<tr>
<td>Hawaii- Business and Other</td>
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</tr>
<tr>
<td>Hawaii- Government Agencies</td>
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<td>$4,586,718</td>
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</tr>
<tr>
<td>Hawaii- Health Organizations</td>
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<td>$324,962</td>
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</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
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<tr>
<td>Mainland- Business and Other</td>
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<tr>
<td>Mainland- Health Organizations</td>
<td>5</td>
<td>$1,232,203</td>
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</tr>
<tr>
<td>Mainland- Non-Profit Organizations</td>
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<td>0.65%</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>32</td>
<td>$3,179,091</td>
<td>3.04%</td>
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<tr>
<td>National Science Foundation</td>
<td>60</td>
<td>$24,831,451</td>
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<tr>
<td>US Colleges and Universities</td>
<td>23</td>
<td>$2,386,504</td>
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</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>425</strong></td>
<td><strong>$104,723,729</strong></td>
<td><strong>100%</strong></td>
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</table>

Note: YTD amounts include adjustments.
## Extramural Non-Research Awards

### Year to Date: 07/01/09 - 09/30/09

### Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>8</td>
<td>$2,157,382</td>
<td>2.65%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>29</td>
<td>$8,666,856</td>
<td>10.64%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
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<tr>
<td>DOI-Dept of Interior</td>
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<tr>
<td>ED-Dept of Education</td>
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<tr>
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<tr>
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<tr>
<td>Hawaii- Dept of Education</td>
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<tr>
<td>Hawaii- Government Agencies</td>
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<tr>
<td>Hawaii- Health Organizations</td>
<td>18</td>
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<td>9.35%</td>
</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
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<tr>
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<tr>
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<td>0.04%</td>
</tr>
<tr>
<td>National Science Foundation</td>
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</tr>
<tr>
<td>US Colleges and Universities</td>
<td>7</td>
<td>$596,005</td>
<td>0.73%</td>
</tr>
</tbody>
</table>

**Total:** 284  $81,417,431  100%

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Note: YTD amounts include adjustments.