

## Gifts, Grants, and Contracts for January 2010

The following gifts, grants and contracts received by all campuses during the period January 1, 2010 through January 31, 2010 total \$24,492,565. The unofficial year-to-date total is: \$294,763,787.

### Research

#### DA-Dept of Agriculture

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED	\$43,679
<u>Pilot and Feasibility Feeding Studies for Long-Term Consumption of Anti-Diabetic Vegetable Momordica Charantia (Bitter Melon)</u>	
Nerurkar, Pratibha V	Department of Molecular Biosciences and Bioengineering
The project investigates the anti-obesity effects of Auyurvedic medicine, Momordica charantia, commonly known as bitter melon.	
Agriculture, Dept - FED	\$83,411
<u>Environmental Effects of Tephritid Fruit Fly Control and Eradication</u>	
Hu, Ching Yuan	College of Tropical Agriculture and Human Resources
The approach of this project is to address the development and evaluation of currently acceptable or novel new non-toxic fruit fly control strategies such as classical biological controls, post-harvest treatment, microbial control agents.	
Agriculture, Dept - FED	\$150,000
<u>Cooperative Synthesis of Cellulosomes by an Engineered Yeast Consortium to Improve Lignocellulose Bioconversion</u>	
Su, Wei-Wen Winston	Department of Molecular Biosciences and Bioengineering
Develop yeasts that express synthetic cellulosomes to improve bioconversion of lignocellulose.	

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

Health & Human Svc, Dept - Ctrs for Disease Cntrl & Prvntn (CDC)	\$199,992
<u>Evaluation of genital self-sampling for HPV detection in males</u>	
Hernandez, Brenda Y	Cancer Research Center
Six-hundred males in Hawaii aged 14-59 will be randomized into one of four groups, each using a different method of genital sampling. For each method, specimens will be collected by the study participant and the clinician. The primary objective is to evaluate the acceptability, feasibility, and validity of self-sampling methods.	
Health & Human Svc, Dept/NIH - Natl Heart, Lung, & Blood Inst	\$355,567
<u>Anti-inflammatory Cytokines in Atherosclerosis</u>	
Boisvert, William	John A. Burns School of Medicine
The aims of this grant are to understand how anti-inflammatory cytokines such as IL4 and IL10 affect the atherogenic process. Both systemic as well as local effects of the cytokines will be assessed using in vitro and in vivo animal models.	
Health & Human Svc, Dept/NIH - Natl Heart, Lung, & Blood Inst	\$742,796
<u>University of Hawaii Research Scientist Award in Molecular Cardiology</u>	
Shohet, Ralph Victor	Department of Medicine
Phase II (years 3-7) will establish a research and education program with the recruited scientist as principal investigator.	
Health & Human Svc, Dept/NIH - Natl Inst of Allergy & Infectious Dis	\$646,995
<u>Global HIV Drug Therapies and Mitochondrial Complications and Mechanisms</u>	
Gerschenson, Mariana	John A. Burns School of Medicine
39 million people are living with HIV and when they are treated with drugs like d4T or ZDV this can cause side-effects like fat loss that we are trying to understand and prevent.	

# Gifts, Grants, and Contracts for January 2010

## Research

### DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Inst of Child Hlth & Human Dev \$728,984

National Children's Study University of Hawaii Study Center - Honolulu County

Millar, Lynnae K

Department of Obstetrics, Gynecology, and Women's Health

Our objective is to be part of the National Children's Study (NCS) and contribute to the planned cohort study examining the effects of environmental influences on the health and development of approximately 100,000 children.

### DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$1,965,000

Sea Grant College Program Institutional Program

Grau, E Gordon

Sea Grant College Program

To promote an innovative and effectively managed program of research, education, and outreach directed to the improved understanding, management, and wise use of marine resources of the state, region, and nation.

### DOD-Department of Defense

Defense, Dept - Air Force \$23,000

Operations and Management of the Maui High Performance Computing Center

Lassner, David K

Information Technology Services

Cost reimbursement award term contract for research development, operations and management of the Maui High Performance Computing Center.

Defense, Dept - Air Force \$40,000

Operations and Management of the Maui High Performance Computing Center

Lassner, David K

Information Technology Services

Cost reimbursement award term contract for research development, operations and management of the Maui High Performance Computing Center.

Defense, Dept - Air Force Space & Missile Syst Ctr \$158,340

LEONIDAS: Low-Earth Orbit Nanosat-Integrated Defense Autonomous Systems

Flynn, Luke Paul

Hawaii Institute of Geophysics and Planetology

The LEONIDAS project will design, build, test, launch, and operate small spacecraft in low-Earth orbit.

Defense, Dept - Dep Under Secy of Defense \$1,970,000

Managing Partner of Pacific Disaster Center

Gaines, James R

Vice President for Research

This Cooperative Agreement provides for the transfer of Federal funds for the evolvement of the Pacific Disaster Center into a public-private partnership benefiting from shared responsibilities and assistance from the Department of Defense and the Managing Partner (recipient) with its internal management, administration, and development of concepts as proposed by the Recipient on August 17, 2009 in response to Funding Announcement HQ0034-09-RFCA-3001 and accepted by the Government.

Defense, Dept - Navy \$149,996

Response of Marine Vehicles Advancing in a Seaway and in the Surf Zone

Cheung, Kwok Fai

Department of Ocean and Resources Engineering

Develop a hydroelasticity model for marine vehicles advancing in a seaway and a CFD toolbox to model dynamic response of marine vehicles in the surf zone.

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#### DOD-Department of Defense

Defense, Dept - Navy	\$77,310
<u>Analysis and High-Resolution Modeling of Tropical Cyclogenesis during the TCS-08 and TPARC Field Campaign</u>	
Li, Tim	Department of Meteorology
To assimilate the in-situ observations using NAVDAS and 4DVar, and to investigate 3D moisture, temperature and wind structure and evolution characteristics prior to and during TC formation, and to conduct COAMPS high-resolution cyclogenesis forecasts using the data assimilation product.	
Defense, Dept - Office of Naval Research	\$150,000
<u>Multiple Approaches for Testing Novel Coatings in the Laboratory and in Pearl Harbor, Hawaii. Investigations at the Microbial and Macrofouler Levels</u>	
Hadfield, Michael G	Pacific Biosciences Research Center
Testing of fouling organisms on experimental marine coatings.	
Defense, Dept - Office of Naval Research	\$135,000
<u>Quasi-Ceramic Silicone Conversion Coating for Corrosion Protection of Aluminum Alloys</u>	
Hihara, Lloyd H	Department of Mechanical Engineering
Quasi-ceramic silicone coatings will be synthesized and examined for corrosion protection of aluminum alloys.	
Defense, Dept - Office of Naval Research	\$10,709
<u>Passive Acoustic Tracking of Minke Whales</u>	
Nosal, Eva-Marie	Department of Ocean and Resources Engineering
This project will develop and apply methods to track minke whales using acoustic data recorded at the Pacific Missile Range Facility.	
Defense, Dept - Office of Naval Research	\$103,232
<u>Utilizing Pro-bono Commercial Assets for Marine Mammal Surveys in High Naval Activity Area in Hawaiian Waters</u>	
Au, Whitlow W L	Hawaii Institute of Marine Biology
Attach hydrophone listening devices to at least one Young Brother's inter-island barge to survey for whales and dolphins in waters between Oahu-Hawaii and Oahu-Kauai.	
Defense, Dept - Office of Naval Research	\$50,000
<u>Enhanced Tactical Fuel Design: Fundamental Combustion Studies of Boron Nanoparticle Multi-component Fuel (University of Hawaii Component)</u>	
Masutani, Stephen M	Hawaii Natural Energy Institute
Investigation of the combustion characteristics of a slurry comprising a mixture of a liquid fuel and coated boron nanoparticles to enhance energy content.	
Defense, Dept - Office of Naval Research	\$26,850
<u>Enhanced Tactical Fuel Design: Fundamental Combustion Studies of Boron Nanoparticle Multi-component Fuel (University of Hawaii Component)</u>	
Masutani, Stephen M	Hawaii Natural Energy Institute
Investigation of the combustion characteristics of a slurry comprising a mixture of a liquid fuel and coated boron nanoparticles to enhance energy content.	

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### Research

#### DOD-Department of Defense

Defense, Dept - Office of Naval Research \$120,000

Long-Range Lightning Detection over the Western Pacific Ocean

Businger, Steven Department of Meteorology

The goals of this proposal are: (I) to expand PacNet long-range lightning detection coverage to the Western Pacific Ocean, (ii) to calibrate the extended network (Cummins 2006), (iii) establish relationships between lightning rates and rainfall rates, (iv) investigate the morphology of lightning in storms systems, and (v) assimilate the data into numerical models.

Defense, Dept - Office of Naval Research \$59,957

Long-Range Lightning Detection over the Western Pacific Ocean

Businger, Steven Department of Meteorology

The goals of this proposal are: (I) to expand PacNet long-range lightning detection coverage to the Western Pacific Ocean, (ii) to calibrate the extended network (Cummins 2006), (iii) establish relationships between lightning rates and rainfall rates, (iv) investigate the morphology of lightning in storms systems, and (v) assimilate the data into numerical models.

Defense, Dept - Office of Naval Research \$3,914

Collaborative Proposal to Extend ONR YIP Research with BRC Efforts

Powell, Brian Department of Oceanography

ONR Basic Research Challenge to extend my current research into the factors that control the predictability in ocean modeling. Focus will be on the collaboration of my research with other scientists.

Defense, Dept - Office of Naval Research \$150,000

Radar Remote Sensing of the Mesoscale Flow Through Straits of the Philippines Archipelago

Flament, Pierre J Department of Oceanography

Deployment of high frequency radars to measure surface currents in the straits of the Philippines as part of a large coordinated ONR experiment.

Defense, Dept - Office of Naval Research \$74,567

Origins of the Kuroshio and Mindanao Currents

Qiu, Bo Department of Oceanography

This proposed research is to investigate the 3-dimensional structure and temporal variability of the westward-flowing North Equatorial Current (NEC) and its bifurcation into the Kuroshio and Mindanao Currents in the Philippine Sea.

Defense, Dept - Office of Naval Research \$35,557

Understanding Predictability of the Ocean

Powell, Brian Department of Oceanography

ONR Young Investigator Program: Research into the factors that control the predictability in ocean modeling. Focus will be on the model parameterizations and the influence of specific observations.

#### DOI-Dept of Interior

Interior, Dept - National Park Service \$20,000

Hawaiian Soldiering: Indigenous Traditions of Warriorhood

Tengan, Ty P Kawika Ethnic Studies Department

Archival and oral history research will focus on Native Hawaiian service in the United States military between 1900

- present, especially during World War II, and the experienced of Native Hawaiian civilians with the military and

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## Research

### DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey \$372,014

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

Interior, Dept - U.S. Geological Survey \$91,250

Northwestern Hawaiian Islands Climate Change: Predicting Risks of Island Extinctions Due to Sea Level Rise

Ziegler-Chong, Sharon Pacific Aquaculture-UHH

Use sea level rise models for the Northwestern Hawaiian Islands to evaluate the impacts to US Pacific Island wildlife and develop multidimensional decision tools

### ED-Dept of Education

Education, Dept - Institute of Education Sciences-FED \$399,975

Hawaii Model Demonstration Project on Tiered Approaches to Improve the Writing Proficiency, Application, and Transfer Skills of 9th Grade Students

Stodden, Robert A Center on Disability Studies

The purpose of the Hawaii project is to rigorously conduct a Model Demonstration of tiered approach toward improving writing proficiency, application, and transfer skills of ninth grade students who have writing difficulties, including those at risk for and with learning disabilities.

## Foreign

Korea Ocean Research & Development Inst (KORDI) \$125,000

IMI-120 Sonar Surveys for KORDI in the Lau Basin, South Pacific Ocean

Rognstad, Mark R Hawaii Institute of Geophysics and Planetology

HMRG will conduct surveys in the Lau Basin, near Fiji, using the IMI-120 side-scan sonar and bathymetric mapping system in support of research for the Korea Ocean Research and Development Institute. Surveys are to take place in January-February 2010 on the German research vessel Sonne, from New Zealand to Fiji.

Society for Testing English Proficiency \$96,200

Research Proposal: Upper-Level Eiken Examinations: Linking, Validating, and Predicting TOEFL iBT Scores

Brown, James Dean Department of Second Language Studies

This project will administer four levels of Eiken tests (currently separate tests) to international-student volunteers at UHM in order to: Create one scoring scale across the Eiken levels; examine the relationship between this new scale and TOEFL scores (required for UHM admission); and investigate the validity.

U.S. - Israel Binational Science Fdn \$8,050

Collaborative Research: Phylogeny of the Octocorals (phylum Cnidaria), Family Xenidae: Application of Molecular and Morphology Based Approaches

Toonen, Robert J Hawaii Institute of Marine Biology

We propose to collaborate using DNA and traditional taxonomic methods to resolve the systematics of this enigmatic but important coral group and produce a field guide for them.

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## Research

### Hawaii- Business and Other

East West Center	\$15,836
<u>National Transfers Account</u>	
Lee, Sang-Hyop	Department of Economics
Evaluate National Transfer Accounts (NTA) that have been constructed for Taiwan, update and maintain National Transfer Account database, and develop tools for constructing reports using the NTA database.	
Pukoa Scientific LLC	\$35,000
<u>Enhanced Advanced Intelligent Reconnaissance System</u>	
Sanyal, Amit	Department of Mechanical Engineering
The technical objectives of the proposed research are: (1) to incorporate measurements from sensors placed on an unmanned aerial vehicle to generate estimates of motion; (2) to demonstrate the accuracy of these estimates numerically and analytically; to demonstrate that the estimator is robust to (3) initialization errors and measurement errors and (4) loss of global positioning system signals	
Research Corporation, University of Hawaii	\$39,994
<u>A Proposal to the Papahānaumokuākea Marine National Monument for an Investigation of the Commonest Crustose Coralline Algae (CCA) in the Hawaiian Islands</u>	
Abbott, Isabella A	Department of Botany
The purpose of this work is to collect, identify and present in a booklet, the most common Hawaiian calcified red algae (seaweeds) that can be used to indicate chemical and/or physical changes in the ocean due to disturbance and/or climate changes.	

### Hawaii- Government Agencies

Health, Dept - HI	\$224,985
<u>State Prevention Framework State Incentive Grant Evaluation</u>	
Yuen, Sylvia H L	Center on the Family
Conduct evaluation of key processes and outcomes of the Hawaii State Prevention Framework State Incentive Grant Project (SPF-SIG) at the state, community, and program levels.	
Land & Natural Res, Dept - Div of Aquatic Resources-HI	\$30,000
<u>Fish and Habitat Monitoring and Assessment</u>	
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 islands.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$88,676
<u>Detection and Control of Invasive Species on the Island of Kauai</u>	
Duffy, David C	Department of Botany
Control and eradicate invasive species on Kauai, with an emphasis on early detection and rapid response.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$173,160
<u>Detection and Control of Invasive Species in Maui County</u>	
Duffy, David C	Department of Botany
Implement a county-wide strategy for early detection and control of invasive species in Maui county.	

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#### Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$15,000
<u>Coordinate and Normalize Statewide Plant Extinction Prevention Program Data</u>	
Kaneshiro, Kenneth Y	Pacific Biosciences Research Center
Expansion of the existing Plant Extinction Plant Program information systems is the primary data set of focus.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$30,275
<u>Forestry and Watershed Planner</u>	
Morden, Clifford W	Department of Botany
Conduct research and development for forest and watershed management plans for Maui and Kauai, working closely with planners on those islands.	
Land & Natural Res, Dept - HI	\$90,000
<u>Detection and Control of Invasive Species on Oahu</u>	
Duffy, David C	Department of Botany
Implement invasive species control strategies on Oahu.	
Land & Natural Res, Dept - HI	\$22,500
<u>Lanaihale Forest and Watershed Project (ARRA)</u>	
Duffy, David C	Department of Botany
Conduct integrated pest management strategy on Lanaihale to protect native habitats from invasive plants.	
Land & Natural Res, Dept - HI	\$80,000
<u>Coordination and Planning of the Kauai Seabird Habitat Conservation Plan on Kaua'i, Hawai'i</u>	
Duffy, David C	Department of Botany
Complete a programmatic seabird habitat conservation plan and National Environmental Policy Act analysis for the incidental take of endangered seabirds due to light attraction.	
Land & Natural Res, Dept - HI	\$81,965
<u>Maui District Endangered Species Research</u>	
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	\$60,000
<u>Plant Restoration and Enhancement, Rare Plant Facilities EPRE 10 (Pahole)</u>	
Sugii, Nellie C	Lyon Aboretum
Conservation of rare plants on Oahu, by using genetic management, propagation, seed storage and species restoration to increase and stabilize populations.	
Land & Natural Res, Dept - HI	\$75,000
<u>Landowner Assistance Program for Endangered Species Protection</u>	
Duffy, David C	Department of Botany
Provide conservation expertise to landowners on all aspects of assistance programs for endangered species protection, and assist in development of plans and agreements.	

## Gifts, Grants, and Contracts for January 2010

### Research

#### Hawaii- Health Organizations

Kaiser Permanente - HI		\$65,904
<u>Hawaii Family DASH</u>		
Nigg, Claudio R	Office of Public Health Studies	
This is a subcontract for the physical activity intervention and assessment portion and the data analysis for a project addressing childhood obesity through the physician and at home.		
Kaiser Permanente - HI		\$56,055
<u>Hawaii Family DASH</u>		
Nigg, Claudio R	Office of Public Health Studies	
This is a subcontract for the physical activity intervention and assessment portion and the data analysis for a project addressing childhood obesity through the physician and at home.		
Kaiser Permanente - HI		\$1,471
<u>Hawaii Family DASH</u>		
Nigg, Claudio R	Office of Public Health Studies	
This is a subcontract for the physical activity intervention and assessment portion and the data analysis for a project addressing childhood obesity through the physician and at home.		
Kuakini Medical Center		\$76,465
<u>Epidemiology of Aging and Dementia Autopsy Research (ARRA - Competitive Revision)</u>		
Uyehara-Lock, Jane H	Department of Pathology	
To provide pathology services and analysis of autopsy results as part of the on-going Honolulu Asia Aging Study. This award is a subcontract from Kuakini Medical Center to the University of Hawaii.		
Queen's Medical Center		\$15,000
<u>Memorandum of Understanding Between the QMC and UHM SONDH</u>		
Mark, Debra D	Department of Nursing	
The purpose of the Cooperative Research Partnership between The Queen's Medical Center, Queen Emma Nursing Institute (QMC-QENI) and the University of Hawaii's School of Nursing and Dental Hygiene (UHM-SONDH) is to support collaborative development of nursing science and translational research in clinical practice and health policy.		

#### Hawaii- Non-Profit Organizations

HCF-Straub (George F) Trust Estate		\$50,000
<u>The Anti-Apoptotic Role of Pre-B Cell Colony-Enhancing Factor (PBEF/Visfatin) in the Fetal Membranes</u>		
Wright, Claire E	Department of Obstetrics, Gynecology, and Women's Health	
Preterm premature rupture of the fetal membranes is a leading cause of preterm birth. Pre-B cell colony-enhancing factor protects cells from death, however the mechanism is unknown. IN this proposal we aim to study its ability to protect cells of the fetal membranes and demonstrate how it does this.		
Hawaii Crop Improvement Association		\$43,780
<u>Biology of Maize Chlorotic Mottle Virus in Hawaii: Identification of Insect Vectors, Transmission Mode, Vector Seasonability and Alternative Host Plants</u>		
Bressan, Alberto	Department of Art and Art History	
This proposal addresses key questions that will facilitate the development of accurate management practices against the MCMV and its vectors and quantify the risk of viral infections in corn fields.		



## Gifts, Grants, and Contracts for January 2010

### Research

#### Hawaii- Non-Profit Organizations

Learning Disabilities Assn of Hawaii (LDAH)	\$30,000
<u>LDAH Preschool Screening Project</u>	
Johnson, Jean Lee	Center on Disability Studies
Analyze data provided by the LDAH Project "Ekolu Eha Ike Pono" to assess short-term outcomes and project outcomes, which shall include the following measurement indicators.	
Tri-Isle Resource Conservation & Dev Council	\$150,000
<u>Maui Invasive Species Committee Coqui Frog Project: FY 10</u>	
Duffy, David C	Department of Botany
Develop and implement long-term detection and control strategy for coqui frogs on Maui.	
University of Hawaii Foundation	\$5,000
<u>Fairmont Orchid Reef Monitoring</u>	
Adolf, Jason	Natural Sciences-UHH
Monitor nutrient levels in anchialine ponds and adjacent coastal areas in order to better understand the impact of nutrients delivered by groundwater on the coastal ecosystem.	
University of Hawaii Foundation	\$7,027
<u>Magnetic Levitation System Development</u>	
Berkelman, Peter John	Department of Mechanical Engineering
To continue support for research related to Magnetic Levitation.	
University of Hawaii Foundation	\$16,590
<u>Therapeutic LOX Inhibitors</u>	
Csiszar, Katalin	Department of Complementary and Alternative Medicine
Testing and development of LOX inhibitors for therapeutic use.	
World Turtle Trust	\$58,200
<u>Hawaii Island Hawksbill Turtle Recovery Project</u>	
Duffy, David C	Department of Botany
Manage and protect the endangered Hawksbill sea turtle by projecting and restoring its nesting habitat on the Big Island.	

#### Mainland- Business and Other

Adama Materials, Inc.	\$80,000
<u>Development of High-Performance Nanomaterials, Nanoresins, Nanoprepregs, and Nanocomposites</u>	
Nejhad, Mehrdad G	Department of Mechanical Engineering
In this project, we will development high-performance nanomaterials, nanoresins, nanoprepregs, and nanocomposites	
Adama Materials, Inc.	\$30,000
<u>Development of High-Performance Nanoforests Prepreg-based Nanocomposites for Structural Applications</u>	
Nejhad, Mehrdad G	Department of Mechanical Engineering
We will develop high-performance nanoforests prepreg-based nanocomposites for structural applications	

## Gifts, Grants, and Contracts for January 2010

### Research

#### Mainland- Business and Other

Booz, Allen & Hamilton Inc	\$5,150
<u>caBIG<sub>2</sub> Enterprise Phase</u>	
Wilkens, Lynne R	Cancer Research Center
The applicant will participate in projects of the Vocabulary and Common Data Elements Workspace of NCI's caBIG <sub>2</sub> project, an informatics initiative aimed at standard infrastructure for data sharing. Specific tasks will include review of software applications for compatibility and development and dissemination of information on common data element standards.	
Cellana LLC	\$526,568
<u>Biochemical Characterization of Marine Microalgae for Optimal Biomass and Lipid Production</u>	
Bidigare, Robert R	Hawaii Institute of Marine Biology
Isolation and identification of novel microalgae aimed at enhancing lipid content	
Cellana LLC	\$2,438,628
<u>High Throughput Screening (HTS) of Algal Strains for Optimal Biomass and Lipid Production</u>	
Brown, Susan L.	Department of Oceanography
High Throughput Screening of preselected algal strains for commercial lipid production	
Cellana LLC	\$67,274
<u>Biochemical Characterization of Marine Microalgae for Optimal Biomass and Lipid Production</u>	
Bidigare, Robert R	Hawaii Institute of Marine Biology
Isolation and identification of novel microalgae aimed at enhancing lipid content	
Cellana LLC	\$72,412
<u>High Throughput Screening (HTS) of Algal Strains for Optimal Biomass and Lipid Production</u>	
Brown, Susan L.	Department of Oceanography
High Throughput Screening of preselected algal strains for commercial lipid production	
First Solar, Incorporated	\$45,000
<u>First Solar Advanced Technologies Project</u>	
Miller, Eric L	Hawaii Natural Energy Institute
The Hawaii Natural Energy Institute at the University of Hawaii at Manoa will provide professional services to support First Solar Advanced Technologies in the performance of its efforts to execute research into copper-indium-gallium-diselenide deposition and resulting photovoltaic devices.	
GlaxoSmithKline	\$30,476
<u>A Randomized, Open-Label, Active-Controlled, Parallel-Group, Multicenter Study to Determine the Safety and Efficacy of Albiglutide</u>	
Arakaki, Richard F	Department of Medicine
This is a 60-64 week study that will evaluate the safety and efficacy of a weekly subcutaneous injected dose of Albiglutide in patients with Type 2 Diabetes Mellitus taking insulin glargine as compared to patients on before meal	

## Gifts, Grants, and Contracts for January 2010

### Research

#### Mainland- Business and Other

Lockheed Martin Corporation Space Systems	\$292
<u>Automated Marine Mammal Detection and Classification on Navy Ranges</u>	
Au, Whitlow W L	Hawaii Institute of Marine Biology
Create software to automate dolphin identification on the PMRF hydrophone range.	
Sound and Sea Technology, Inc.	\$30,800
<u>OTEC Site Assessment and Survey for Sound and Sea, Inc.</u>	
Ericksen, Todd L.	Hawaii Institute of Geophysics and Planetology
Conduct oceanographic and seafloor surveys of potential sites for Ocean Thermal Energy Conversion (OTEC) deployment for US Navy, as subcontracts to Sound and Sea, Inc.	
Sound and Sea Technology, Inc.	\$448,156
<u>OTEC Site Assessment and Survey for Sound and Sea, Inc.</u>	
Ericksen, Todd L.	Hawaii Institute of Geophysics and Planetology
Conduct oceanographic and seafloor surveys of potential sites for Ocean Thermal Energy Conversion (OTEC) deployment for US Navy, as subcontracts to Sound and Sea, Inc.	
Space Telescope Science Institute	\$41,344
<u>Near Infrared Observations of a Sample of Z~6.5-6.7 Galaxies</u>	
Hu, Esther M	Institute for Astronomy
The most distant galaxies are optical Lyman alpha emitters. Accurate estimate of their star formation rates requires measuring the rest-frame ultraviolet continuum at infrared wavelengths. We will use NICMOS infrared images of 9 Lyman alpha galaxies to investigate morphologies and star formation in the highest redshift galaxies known.	
Vaisala Inc.	\$40,000
<u>Vaisala Data Implementation and Integration</u>	
Businger, Steven	Department of Meteorology
This contract between UH and Vaisala provides funding for a post-doctoral stipend for Dr. Antti Pessi for one year at 50% time. During this year Antti will provide assistance to Vaisala's (the Company) Development Center for Meteorology (DCM) in data implementation and integration.	
Woods Hole Oceanographic Institution	\$3,460
<u>Shoreline Evolution and Coastal Resiliency at Two Military Installations: Modeling of Hurricane Surge, Wave, and Overwash</u>	
Cheung, Kwok Fai	Department of Ocean and Resources Engineering
Perform hurricane surge, wave, and overwash modeling in support of a study on shoreline evolution and coastal resiliency at Eglin Air Force Base, Florida and Camp Lejeune, North Carolina.	

#### Mainland- Health Organizations

Nebraska Medical Center, University of	\$129,260
<u>Battlefield Airway Management for Wounded Warriors</u>	
Berg, Benjamin W	John A. Burns School of Medicine
Provide subject matter expertise and management counseling.	

# Gifts, Grants, and Contracts for January 2010

## Research

### Mainland- Non-Profit Organizations

Mesothelioma Applied Research Foundation, Inc. \$50,000

Studies of Tumor Necrosis Factor Alpha as a New Target for Human Malignant Mesothelioma Preventive and Therapeutic Strategy

Yang, Haining Cancer Research Center

Tumor necrosis factor alpha (TNF-alpha) plays a critical role in the mechanisms of asbestos-induced malignant mesothelioma (MM). We propose to further study the function of TNF-alpha in MM development and in tumor progression, which will lead to the development of novel preventive and therapeutic strategies.

### Miscellaneous

Smithsonian Tropical Research Institute - Center for Tropical Forest Science \$11,750

Seed Rain and Seedling Recruitment in Hawaii

Ostertag, Rebecca Natural Sciences-UHH

Measure seed rain and re-census seedling subplots to measure establishment, growth, and survival of seedlings.

### National Aeronautics and Space Administration

National Aeronautics & Space Administration \$50,000

ANITA: Antarctic Impulsive Transient Antenna

Gorham, Peter W Department of Physics and Astronomy

To fly a long duration balloon mission to address the question of the nature and origin of the highest energy cosmic rays, and the ultimate limits of energy in the universe.

National Aeronautics & Space Administration \$120,000

A NEO Search Program Using the Pan-STARRS PS1 Telescope

Jedicke, Robert Institute for Astronomy

Support of the PS1 Telescope operation and MOPS project on Haleakala for the NASA Near Earth Object Search Program.

National Aeronautics & Space Administration \$2,500,000

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 \$73,194

Characterization of Hg: Cd: Te Avalanche Photo Diode Arrays: a Path to an Infrared Photon Counting Array

Hall, Donald N Institute for Astronomy

The objective of this proposed research is to completely bypass the voltage read noise in conventional charge integrating arrays by demonstrating noiseless infrared photon counting detector arrays limited only by natural background. We propose to demonstrate this for the near infrared utilizing existing, space qualified components.

National Aeronautics & Space Administration \$77,317

Detecting Dark Energy from WMAP and Pan-STARRS1

Szapudi, Istvan Institute for Astronomy

We propose to detect the Integrated Sachs-Wolf (ISW) effect in the WMAP (Wilkinson Microwave Anisotropy Probe) CMB (Cosmic Microwave Background) maps using the one year Pan-STARRS1 (PS1) photometric LRG (Sloan Luminous Red Galaxy) sample.

## Gifts, Grants, and Contracts for January 2010

### Research

#### National Aeronautics and Space Administration

- National Aeronautics & Space Administration \$75,000  
Lunar Analog Field Demonstration 2010  
Schowengerdt, Franklin Natural Sciences-UHH  
Provide logistics and support for the ISRU (In-Situ Resource Utilization) field test
- National Aeronautics & Space Administration \$77,515  
Using the Ion Microprobe to Determine the Abundances and Isotopic Composition of Solar Wind Elements in the Genesis Collectors  
Huss, Gary Robert Hawaii Institute of Geophysics and Planetology  
I propose to study the solar wind collected by NASA's Genesis Mission by using the Cameca ims 1280 ion microprobe to measure the solar wind profiles in the Genesis collectors.
- National Aeronautics & Space Administration \$41,000  
Nature of Oxygen Isotopic Exchange in Refractory Inclusions  
Krot, Alexander N Hawaii Institute of Geophysics and Planetology  
Studies isotopic composition of materials.
- National Aeronautics & Space Administration \$240,000  
Measurement and Analysis of Aerosol Physio-chemistry and Optical Properties in Support of ARCTAS  
Clarke, Antony D Department of Oceanography  
To support NASA's mission objectives on board the proposed aircraft P-3b, primarily airborne instrumentation.

#### National Science Foundation

- National Science Foundation \$6,316  
Doctoral Dissertation Research: Simulation in Sentence Production  
Schafer, Amy J Department of Linguistics  
This research examines whether, in addition to the speaker's intended message, nonlinguistic factors (e.g., motor activities) may influence the speech outcome.
- National Science Foundation \$203,569  
REVSYS: A Revision of New World Ampullariidae: An Emerging Model System in Evolutionary Biology and Systematics Training  
Cowie, Robert H Pacific Biosciences Research Center  
To produce a revision of the taxonomy and systematics of the New World members of the freshwater snail family Ampullariidae, while training undergraduates, graduate students and a postdoctoral researcher in all aspects of systematics research.
- National Science Foundation \$283,146  
Molecular Functions of Protein Disulfide Isomerases in Redox-Metabolism and Protein Folding Pathways in Plants  
Christopher, David A Department of Molecular Biosciences and Bioengineering  
This research will identify how the protein disulfide isomerase enzyme family controls leaf aging and seed development in plants. These processes are critical for agricultural productivity. Graduate and numerous undergraduate students will be trained in modern methods of molecular biology.

# Gifts, Grants, and Contracts for January 2010

## Research

### National Science Foundation

National Science Foundation \$48,491

Collaborative Research: Hawaiian Plume Heterogeneity Revealed by Kilauea's Ongoing Eruption, Prehistoric Lavas 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.

National Science Foundation \$140,322

Study of Processes Leading to Tropical Cyclone Structure and Intensity Changes

Wang, Yuqing Department of Meteorology

Comprehensive study on processes that can lead to considerable tropical cyclone structure and intensity changes with idealized numerical experiments and diagnostic analysis.

National Science Foundation \$92,535

Collaborative Research: The Internal Tide and Mixing in Monterey and Ascension Canyons

Carter, Glenn S Department of Oceanography

A collaborative proposal between UH and APL/UW to model and conduct intensive observations in Monterey Canyon, CA and nearby Ascension Canyon. The focus is on how internal tides propagate in canyons and are steered and focused by the topography.

National Science Foundation \$170,760

The Ergodic Theory of Nonamenable Group Actions

Bowen, Lewis P Department of Mathematics

This project consists of research intended to advance the ergodic theory of nonamenable group actions by utilizing a new entropy theory developed by the Principal Investigator.

### US Colleges and Universities

Alabama Huntsville, University of \$50,000

Incremental Learning Methods for Energy Estimates of Production Facilities and Natural Events

Wright, Robert Hawaii Institute of Geophysics and Planetology

Using infrared satellite data to detect and monitor the heat signatures of gas flares, oil refineries, and natural heat sources (volcanoes, wildfires).

California Davis, University of \$12,000

Phytotoxicity to Ornamental Horticulture Plants from BYI-8330 (Spirotetramat)

Hara, Arnold H Department of Plant and Environmental Protection Sciences

The overall objective of this project is to test a systemic insecticide, spirotetramat for phytotoxicity to tropical plants.

California Davis, University of \$83,294

Asian American Network for Cancer Awareness Research & Training: Hawaii AANCART

Agbayani, Amy Student Equity, Excellence, and Diversity

Address cancer outcome disparities in the Filipino American people of Hawaii through promoting cancer awareness, conducting research to address these disparities, and training researchers and workers to address these disparities.

## Gifts, Grants, and Contracts for January 2010

### Research

#### US Colleges and Universities

California Institute of Technology	\$50,835
<u>NEOWISE Part II - Pan-STARRS MOPS Consulting Proposal: Consulting Support for MOPS Software Integration into WSDS</u>	
Jedicke, Robert	Institute for Astronomy
The MOPS software engineer and manager will each provide consulting services on MOPS operations to the Infrared Processing and Analysis Center and Johns Hopkins University development teams.	
California Institute of Technology	\$18,626
<u>WISE (Wide-field Infrared Survey Explorer) Solar System Object Identification (SSOID)</u>	
Tholen, David J	Institute for Astronomy
This project is intended to support the WISE spacecraft mission by providing a capability to identify known solar system objects in the WISE data stream.	
California San Francisco, University of	\$141,450
<u>Peripheral Reservoir of HIV DNA in Monocytes Pivotal to Cognition in HIV</u>	
Shikuma, Cecilia M	Department of Medicine
To provide the laboratory work and logistical support for this research project.	
Columbia University	\$77,563
<u>Patagonia Glaciation, Geochemical Tracers of Atlantic Meridional Overturing Circulation, and Iron Fertilization of the Glacial South Atlantic Ocean</u>	
Pahnke, Katharina	Department of Geology and Geophysics
To conduct Nd and Sr isotope ratios and REE measurements in South Atlantic sediments to test for factors accounting for Nd isotopic variations in published records of past changes in Atlantic Meridional Overturing Circulation.	
Columbia University	\$57,298
<u>GEOTRACES Intercalibration of <sup>230</sup>Th, <sup>231</sup>Pa, <sup>10</sup>Be, REE, Nd Isotopes and Selected Man-Made Radionuclides</u>	
Pahnke, Katharina	Department of Geology and Geophysics
To measure rare earth elements and Nd isotopes under the GEOTRACES program in an intercalibrated global study to improve the knowledge of the distribution, sources, sinks and internal cycling of trace elements and isotopes in the ocean.	
Oregon, University of	\$35,000
<u>University-Based Detector Research &amp; Development for the Int'l Linear Collider: Pixel-based Sampling CMOS Vertex Detector for the ILC</u>	
Varner, Gary S	Department of Physics and Astronomy
Continue development of the LCAP pixel development activities. Test prototypes in a beam test at the fermilab MTBF. Fabricate LCAP2, prototype two of the ILC Detector Sensor.	
Scripps Institution of Oceanography (UC San Diego)	\$196,388
<u>Current Measurements on Global Ocean Repeat Hydrography Cruises, 2009-2014</u>	
Firing, Eric	Joint Institute for Marine and Atmospheric Research
1) To provide high-quality processed shipboard ADCP (SADCP) and lowered ADCP (LADCP) measurements on all cruises of the 2009-2014 phase of the CLIVAR Repeat Hydrography program, 2) to assist ODF personnel in acquiring a basic LADCP operational capability so as to facilitate this part of the CLIVAR measurements.	

## Gifts, Grants, and Contracts for January 2010

### Research

#### US Colleges and Universities

Stanford University \$56,000

Institute for Astronomy Support for the SDO/HMI Investigation

Kuhn, Jeffrey R. Institute for Astronomy

As part of a team headed by Stanford University, the Institute for Astronomy will work on the Helioseismic and Magnetic Imager data analysis methodology and coding to produce high level data needed for photometry and astrometry research.

Virginia Polytechnic Inst and State Univ \$228,784

Sustainable Management of Agroecological Resources for Tribal Societies (SMARTS)

Idol, Travis W Department of Natural Resources and Environmental Management

This proposal will address conservation agricultural practices among tribal populations in India and Nepal. The goal is to improve the livelihood of these subsistence farmers, modify slash-and-burn practices and introduce innovative soil and water conservation measures.

**Subcount: 108**

**Subtotal: \$20,262,201**

### Non-Research

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

Health & Human Svc, Dept/NIH - Natl Inst on Drug Abuse \$12,565

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.

#### DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$21,702

Spatially Predictive Modeling of Potential Habitat for Two NOAA Species of Concern

Hunter, Cynthia L. Biology Program

Conduct surveys and construct models for habitat suitability of two NOAA Species of Concern

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$44,000

Dean John A. Knauss Marine Policy Fellowship - Lisa Adams

Okimoto, Darren K Sea Grant College Program

Provide educational experience in the policies and processes of the legislative and executive branches of the federal government to graduate students in aquatic-related fields.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$25,000

Pacific Climate Impacts Resource Guide

Okimoto, Darren K Sea Grant College Program

This project will strive to develop several sections of an educational resource guide and build the network of expertise and stakeholders that will ensure the relevance of the information presented for implementation by the concerned public and decision-makers.



## Gifts, Grants, and Contracts for January 2010

### Non-Research

#### Foreign

Commonwealth of Northern Mariana Islands	\$20,000
<u>Pacific Regional Comprehensive Cancer Control Implementation Program (Subcontract From CNMI DPH)</u>	
Buenconsejo-Lum, Lee	Department of Family Medicine and Community Health
Implement the Pacific Regional Comprehensive Cancer Control Program in conjunction with the USAPI jurisdictions; develop a shared cancer resource for use by the jurisdictions; conduct relevant training for health providers; build capacity and policies relevant to cancer control.	
International Union of Nutritional Sciences	\$3,833
<u>Financial Duties for the International Union of Nutritional Sciences (IUNS)</u>	
Kolonel, Laurence N	Cancer Research Center
Send annual dues notices to approximately 80 countries that are Adhering Bodies (ABs) of IUNS; Receive & deposit dues from ABs and sent receipts; Communicate as needed with ABs regarding overdue dues; Disperse funds as directed by Treasurer (Dr. S. Murphy); Maintain accurate financial records for IUNS & provide a final report of expenditures.	

#### Hawaii- Business and Other

Alu Like, Inc	\$160,154
<u>Fisheries Observer Preparatory Training Program (FOTP 9)</u>	
Hunter, Cynthia L.	Marine Option Program
Conduct Fisheries Observer Preparatory Training courses for students provided by Alu Like, Inc.	
Hawaii Council for the Humanities	\$7,500
<u>Brecht in/and Asia</u>	
Wessendorf, Markus W	Department of Theatre and Dance
Series of public lectures by Richard Schechner, Ong Keng Sen, and Haiping Yan as part of a conference by the International Brecht Society on "Brecht in/and Asia?" at the University of Hawaii from May 19-23, 2010.	
Papa Ola Lokahi	\$13,116
<u>Imi Hale - Native Hawaiian Cancer Network</u>	
Novotny, Rachel	Department of Human Nutrition, Food and Animal Sciences
Dr. Novotny will help identify and recruit individuals interested in cancer disparities research and provide technical assistance to individuals in collecting, analysing, and interpreting data. She will mentor individuals to write manuscripts, and participate in conferences to report on Imi Hale activities and accomplishments.	
Sea Engineering, Inc	\$16,619
<u>Ocean Engineering Internship</u>	
Cheung, Kwok Fai	Department of Ocean and Resources Engineering
Establish an Ocean Engineering Internship with Sea Engineering Inc., Waimanalo, Hawaii	

#### Hawaii- Government Agencies

Health, Dept - Adult Mental Health-HI	\$161,950
<u>Child Clinical and Admin Services - CAMHD</u>	
Guerrero, Anthony P	Department of Psychiatry
Provide psychiatric services to the Department of Health, Child, and Adolescent Mental Health Division as outlined	

## Gifts, Grants, and Contracts for January 2010

### Non-Research

#### Hawaii- Government Agencies

Health, Dept - Child & Adolescent Mntl Hlth Div-HI	\$291,762
<u>Child Residency Training CAMHD Log No. 09-005</u>	
Guerrero, Anthony P	Department of Psychiatry
Provide training and administrative support services to psychiatric residents and fellows for the Department of Health, Child and Adolescent Mental Health Division, as outlined in the scope of the contract.	
Health, Dept - Executive Office on Aging-HI	\$38,000
<u>HAP-EE Evaluation Year 4</u>	
Braun, Kathryn L	Department of Public Health Sciences and Epidemiology
To evaluate the EOA's Healthy Aging Program, as outlined in the federal grant proposal.	
Health, Dept - HI	\$3,300
<u>State of Hawaii Department of Health Family Health Services Division Maternal &amp; Child Health Grant Women's Health Section-Family Planning Program</u>	
Cohen, Denise	Chancellor, Maui Community College
To provide subsidized family planning services for women and men, as well as additional training for staff with regards to family planning.	
Health, Dept - HI	\$82,259
<u>HIV Prevention Evaluation Services</u>	
Katz, Alan Roy	Office of Public Health Studies
Support the development of the evaluation for the HIV prevention services STD/AIDS Branch.	
Health, Dept - HI	\$410,055
<u>Adult Clinical and Admin Services ASO Log No. 06-139</u>	
Matsu, Courtenay	Department of Psychiatry
Provide psychiatric services and consultation to the Department of Health, Adult Mental Health division as outlined in the scope of services in the contract.	
Health, Dept - HI	\$148,246
<u>Child Residency Training ASO Log No. 02-002</u>	
Guerrero, Anthony P	Department of Psychiatry
Provide training and administrative support service to psychiatric residents and fellows for the Department of Health, Child and Adolescent Mental Health Division as outlined in the scope of services in the contract.	
Human Services, Dept - HI	\$126,585
<u>DHS Task Order 5: Hawai'i Child Welfare Continuous Quality Improvement Project</u>	
Stein, Lee	Chancellor, Maui Community College
Maui Community college assists the Hawai'i Department of Human Services with enhancing the skills of casework staff and the development and implementation of a comprehensive quality assurance system for child welfare services. Funded by federal reimbursements earned under Title IV-E of the Social Security Act.	

## Gifts, Grants, and Contracts for January 2010

### Non-Research

#### Hawaii- Health Organizations

Queen's Medical Center \$25,000  
Native Hawaiian Preparatory Pathway to Nurse Training  
Boyd, Jamie A. Chancellor, Windward Community College  
Provide career-focused, culturally-based education in a CNA to LPN to RN Pathway.

#### Hawaii- Non-Profit Organizations

Catholic Charities Hawaii \$75,200  
Try Wait! Abstinence Program Evaluation  
Nagatoshi, Charles School of Social Work  
To conduct the data collection and analysis of the Try Wait Abstinence Program.

Hawaii Community Foundation (HCF) \$225,000  
HEALTHY Quit Smoking Program  
Lee, Meta Tjan Department of Pediatrics  
This grant will provide funding to implement smoking cessation services at Kapiolani Medical Center for Women and Children. Adult smokers will be offered participation into the cessation program during their child's health care visit or hospitalization. Enrolled smokers will be given individualized counseling, follow-up data will be collected via telephone interviews.

Hawaii Island Land Trust \$38,882  
Land Conservation Plan (LCP) for Hawaii Island Land Trust  
Minerbi, Luciano Department of Urban and Regional Planning  
Provide a road map for Hawaii Island Land Trust for land conservation and acquisition efforts for the next ten years.

University of Hawaii Foundation \$35,000  
CEE Department Support  
Liu, Clark C. K. Department of Civil and Environmental Engineering  
Provide support to Civil and Environmental Engineering Department activities.

University of Hawaii Foundation \$30,095  
White Snake Project Support  
Carroll, W Dennis Department of Theatre and Dance  
To support the operational costs associated with the production of White Snake.

University of Hawaii Foundation \$218,638  
Dai Ho Chun Distinguished Chair in Arts & Sciences  
Dubanoski, Richard A Office of Community and Alumni Relations  
Dr. Grandin will support interdisciplinary collaboration and teach in the departments of history and American studies. He will teach cross-listed courses at the undergraduate level and a graduate course, as well. Grandin will also be available to give public lectures on a variety of topics of acute contemporary interest.

## Gifts, Grants, and Contracts for January 2010

### Non-Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation		\$33,058
<u>Hartford Center of Excellence</u>		
Masaki, Kamal H	Department of Geriatric Medicine	
To attract additional outstanding faculty to academic careers in Geriatric Medicine and to facilitate in their career development.		
University of Hawaii Foundation		\$192,840
<u>Kellogg P-3 Expenditures</u>		
Johnsrud, Linda K	Vice President for Academic Planning and Policy	
To pay for P-20 salary, fringe, and program costs.		
University of Hawaii Foundation		\$10,000
<u>Sen Soshitsu Students'/Staff Support</u>		
Huey, Robert N	Center for Japanese Studies	
To cover salary and fringe benefits - costs for students and staff support at the Center for Japanese Studies.		
University of Hawaii Foundation		\$20,000
<u>Basic Institutional Needs</u>		
Sohn, Ho-Min	Center for Korean Studies	
Pay for student hourly wages.		
University of Hawaii Foundation		\$26,538
<u>Sam &amp; Mary Castle P-3 Dir Salary</u>		
Johnsrud, Linda K	Vice President for Academic Planning and Policy	
To pay for P-3 Initiative Director's salary and fringe charges.		

#### Mainland- Business and Other

Eli Lilly & Company		\$48,955
<u>12R-MC-BIAC "A Phase 2 Study of LY2605541 Compared with Insulin Glargine in the Treatment of Type 2 Diabetes Mellitus"</u>		
Arakaki, Richard F	Department of Medicine	
This study will compare 2 different dosing algorithms of LY2605541 with insuline glargine in patients with Type 2 diabetes mellitus. The treatment duration will be up to 12 weeks with a follow-up period of 4 weeks. This study will test the hypothesis that LY2605541 injected once daily will result in lower FBG levels than insuline glargine.		
Eli Lilly & Company		\$91,240
<u>Protocol H9X-MC-GBDA AWARD-1: Assessment of Weekly Administration of LY2189265 in Diabetes-1</u>		
Arakaki, Richard F	Department of Medicine	
This is a multicenter, randomized, open-label comparator to assess the safety and efficacy of once weekly of LY2189265 1.5 mg in patients with type 2 diabetes mellitus who are taking maximally tolerated doses of metformin		

# Gifts, Grants, and Contracts for January 2010

## Non-Research

### Mainland- Business and Other

Keystone Alternate Assessment Design	\$1,240,755
<u>Hawaii State Alternate Assessment</u>	
Stodden, Robert A	Center on Disability Studies
CDS will support the development and implementation of the Hawaii Alternate Assessment by participating on weekly calls, coordinate Advisory group meetings, maintain database for Advisory group, print and distribute various resources, coordinate pilot testing and conduct various activities to facilitate assessment development.	
Novo Nordisk, Inc	\$57,007
<u>NN5401-3590: A Trial Comparing Efficacy and Safety of NN5401 with Insulin Glargine in Insulin Naive Subjects with Type 2 Diabetes</u>	
Arakaki, Richard F	Department of Medicine
This is a 26-week study evaluating the efficacy and safety of SIAC (NN5401) + Metformin compared with Insulin Glargine + Metformin in insulin naive subjects diagnosed with Type 2 Diabetes	
Phenomix Corporation	\$22,555
<u>PHX1149-PROT402: A Phase 3, Randomized, Double-Blind, Active-Controlled, Multi-Center Extension Study to Evaluate Safety and Efficacy of Dutogliptin</u>	
Arakaki, Richard F	Department of Medicine
All subjects who complete CHS 17006 the dutogliptin phase 3 core study (PHX1149-PROT402) will be eligible to participate in this extension protocol. This 52-week extension study will allow for the collection of long-term safety data and long-term effects on HbA1c and fasting and plasma glucose.	

### Mainland- Health Organizations

American Heart Association	\$24,772
<u>Effects of Non-Esterified Free Fatty Acids on Albumin Mediated Cholesterol Efflux</u>	
Ha, Chung-Eun	Department of Native Hawaiian Health
Human serum albumin is the principal free fatty acid transporter in serum. We propose to examine the effects of these free fatty acids on albumin mediated cholesterol efflux since previous studies have shown that cholesterol also binds to albumin. Our study would provide research data on how elevated free fatty acids affect albumin mediated cholesterol efflux rate.	

### Mainland- Non-Profit Organizations

Las Cumbres Observatory Global Telescope Network Inc	\$53,100
<u>IfA Hawaiian EPO Program</u>	
Kuhn, Jeffrey R.	Institute for Astronomy
Development and implementation of the Hawaiian Education and Public Outreach Program by the UH Institute for Astronomy and the Las Cumbres Observatory Global Telescope Network, Inc.	
Monsanto Fund	\$1,000
<u>Monsanto Hawaii Science Education Fund</u>	
Colmenares, Leticia U	Chancellor, Windward Community College
To purchase equipment for hands-on activities in General Chemistry courses.	

## Gifts, Grants, and Contracts for January 2010

### Non-Research

#### National Aeronautics and Space Administration

National Aeronautics & Space Administration \$108,073

Tour Through the Solar System: Using NASA Data Sets for Inspiring High School Level Science and Mathematics Education Through Problem-Based Learning

Gillis-Davis, Jeffrey Hawaii Institute of Geophysics and Planetology

We will develop a high school curriculum that is comprised of (1) modular lesson plans, (2) teacher tutorials, and (3) hands-on laboratory experiments based on the latest NASA mission materials that we work with. This planetary exploration themed curriculum coherent we be aligned with national and Hawaii education science standards.

#### National Science Foundation

National Science Foundation \$14,888

Supporting Students Attending the User Modeling, Adaptation and Personalization 2010 Conference

Chin, David N Department of Information and Computer Sciences

Travel funds for PhD students from mostly USA universities to present their research at the User Modeling, Adaptation and Personalization Conference in Waikoloa, Hawaii June 20-24, 2010.

#### US Colleges and Universities

Gallaudet University \$51,122

Gallaudet University Regional Center-Pacific (GURC) 2009-2010

Pagotto, Louise Chancellor, Kapiolani Community College

Provide outreach to Hawai'i & the Pacific including training & technical assistance to deaf students, their families, & professionals who serve deaf individuals.

<b>Subcount:</b>	<b>41</b>	<b>Subtotal:</b>	<b>\$4,230,364</b>
<b>Count:</b>	<b><u>149</u></b>	<b>Total:</b>	<b><u>\$24,492,565</u></b>

## Funds Received from UH Foundation for 01/01/2010 - 01/31/2010

### Non-Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$30,095
"White Snake Project Support"	
Carroll, W Dennis	Department of Theatre and Dance
To support the operational costs associated with the production of White Snake.	
University of Hawaii Foundation	\$218,638
"Dai Ho Chun Distinguished Chair in Arts & Sciences"	
Dubanoski, Richard A	Office of Community and Alumni Relations
Dr. Grandin will support interdisciplinary collaboration and teach in the departments of history and American studies.	
He will teach cross-listed courses at the undergraduate level and a graduate course, as well. Grandin will also be	
University of Hawaii Foundation	\$10,000
"Sen Soshitsu Students'/Staff Support"	
Huey, Robert N	Center for Japanese Studies
To cover salary and fringe benefits - costs for students and staff support at the Center for Japanese Studies.	
University of Hawaii Foundation	\$192,840
"Kellogg P-3 Expenditures"	
Johnsrud, Linda K	Vice President for Academic Planning and Policy
To pay for P-20 salary, fringe, and program costs.	
University of Hawaii Foundation	\$26,538
"Sam & Mary Castle P-3 Dir Salary"	
Johnsrud, Linda K	Vice President for Academic Planning and Policy
To pay for P-3 Initiative Director's salary and fringe charges.	
University of Hawaii Foundation	\$35,000
"CEE Department Support"	
Liu, Clark C. K.	Department of Civil and Environmental Engineering
Provide support to Civil and Environmental Engineering Department activities.	
University of Hawaii Foundation	\$33,058
"Hartford Center of Excellence"	
Masaki, Kamal H	Department of Geriatric Medicine
To attract additional outstanding faculty to academic careers in Geriatric Medicine and to facilitate in their career development.	
University of Hawaii Foundation	\$20,000
"Basic Institutional Needs"	
Sohn, Ho-Min	Center for Korean Studies
Pay for student hourly wages.	

## Funds Received from UH Foundation for 01/01/2010 - 01/31/2010

### Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$5,000  
"Fairmont Orchid Reef Monitoring"

Adolf, Jason Natural Sciences-UHH

Monitor nutrient levels in anchialine ponds and adjacent coastal areas in order to better understand the impact of nutrients delivered by groundwater on the coastal ecosystem.

University of Hawaii Foundation \$7,027

"Magnetic Levitation System Development"

Berkelman, Peter John Department of Mechanical Engineering

To continue support for research related to Magnetic Levitation.

University of Hawaii Foundation \$16,590

"Therapeutic LOX Inhibitors"

Csiszar, Katalin Department of Complementary and Alternative Medicine

Testing and development of LOX inhibitors for therapeutic use.

**Count: 11**

**Total: \$594,786**



**Extramural Research Awards  
for the Month of  
January 2010  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	3	\$277,090	1.37%
DHHS-Dept of Health and Human Services	5	\$2,674,334	13.20%
DOC-Dept of Commerce	1	\$1,965,000	9.70%
DOD-Department of Defense	18	\$3,338,432	16.48%
DOI-Dept of Interior	3	\$483,264	2.39%
ED-Dept of Education	1	\$399,975	1.97%
Foreign	3	\$229,250	1.13%
Hawaii- Business and Other	3	\$90,830	0.45%
Hawaii- Government Agencies	12	\$971,561	4.79%
Hawaii- Health Organizations	5	\$214,895	1.06%
Hawaii- Non-Profit Organizations	8	\$360,597	1.78%
Mainland- Business and Other	15	\$3,859,560	19.05%
Mainland- Health Organizations	1	\$129,260	0.64%
Mainland- Non-Profit Organizations	1	\$50,000	0.25%
Miscellaneous	1	\$11,750	0.06%
National Aeronautics and Space Administration	9	\$3,254,026	16.06%
National Science Foundation	7	\$945,139	4.66%
US Colleges and Universities	12	\$1,007,238	4.97%
<b>Total:</b>	<b><u>108</u></b>	<b><u>\$20,262,201</u></b>	<b><u>100%</u></b>

**Extramural Non-Research Awards  
for the Month of  
January 2010  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DHHS-Dept of Health and Human Services	1	\$12,565	0.30%
DOC-Dept of Commerce	3	\$90,702	2.14%
Foreign	2	\$23,833	0.56%
Hawaii- Business and Other	4	\$197,389	4.67%
Hawaii- Government Agencies	8	\$1,262,157	29.84%
Hawaii- Health Organizations	1	\$25,000	0.59%
Hawaii- Non-Profit Organizations	11	\$905,251	21.40%
Mainland- Business and Other	5	\$1,460,512	34.52%
Mainland- Health Organizations	1	\$24,772	0.59%
Mainland- Non-Profit Organizations	2	\$54,100	1.28%
National Aeronautics and Space Administration	1	\$108,073	2.55%
National Science Foundation	1	\$14,888	0.35%
US Colleges and Universities	1	\$51,122	1.21%
<b>Total:</b>	<b><u>41</u></b>	<b><u>\$4,230,364</u></b>	<b><u>100%</u></b>

**Extramural Research Awards  
Year to Date: 07/01/09 - 01/31/10  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	43	\$6,308,296	3.50%
DHHS-Dept of Health and Human Services	72	\$37,106,359	20.60%
DOC-Dept of Commerce	66	\$25,140,691	13.95%
DOD-Department of Defense	58	\$31,134,735	17.28%
DOE-Dept of Energy	14	\$4,777,133	2.65%
DOI-Dept of Interior	45	\$3,869,193	2.15%
ED-Dept of Education	6	\$1,072,173	0.60%
Federal Agencies	4	\$772,152	0.43%
Foreign	16	\$1,668,137	0.93%
Hawaii- Business and Other	20	\$1,040,311	0.58%
Hawaii- Dept of Education	1	\$45,662	0.03%
Hawaii- Government Agencies	77	\$10,609,555	5.89%
Hawaii- Health Organizations	8	\$376,456	0.21%
Hawaii- Non-Profit Organizations	35	\$2,097,277	1.16%
Mainland- Business and Other	48	\$6,264,948	3.48%
Mainland- Health Organizations	14	\$2,122,183	1.18%
Mainland- Non-Profit Organizations	22	\$1,748,498	0.97%
Miscellaneous	1	\$11,750	0.01%
National Aeronautics and Space Administration	47	\$7,375,779	4.09%
National Science Foundation	77	\$29,668,212	16.47%
US Colleges and Universities	65	\$6,954,252	3.86%
<b>Total:</b>	<b><u>739</u></b>	<b><u>\$180,163,752</u></b>	<b><u>100%</u></b>

Note: YTD amounts include adjustments.

**Extramural Non-Research Awards**  
**Year to Date: 07/01/09 - 01/31/10**  
**Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	13	\$3,351,972	2.92%
DHHS-Dept of Health and Human Services	35	\$10,577,279	9.23%
DOC-Dept of Commerce	17	\$1,372,492	1.20%
DOD-Department of Defense	1	\$126,193	0.11%
DOI-Dept of Interior	11	\$366,553	0.32%
ED-Dept of Education	60	\$31,884,858	27.82%
Federal Agencies	13	\$8,586,478	7.49%
Foreign	14	\$772,563	0.67%
Hawaii- Business and Other	32	\$3,539,811	3.09%
Hawaii- Dept of Education	7	\$431,611	0.38%
Hawaii- Government Agencies	82	\$13,062,128	11.40%
Hawaii- Health Organizations	27	\$9,951,652	8.68%
Hawaii- Non-Profit Organizations	68	\$5,084,072	4.44%
Mainland- Business and Other	13	\$2,041,109	1.78%
Mainland- Health Organizations	1	\$24,772	0.02%
Mainland- Non-Profit Organizations	18	\$1,805,959	1.58%
National Aeronautics and Space Administration	5	\$2,897,048	2.53%
National Science Foundation	30	\$17,146,399	14.96%
US Colleges and Universities	28	\$1,577,086	1.38%
<b>Total:</b>	<b><u>475</u></b>	<b><u>\$114,600,035</u></b>	<b><u>100%</u></b>

Note: YTD amounts include adjustments.