

Gifts, Grants, and Contracts for July 2011

The following gifts, grants and contracts received by all campuses during the period July 1, 2011 through July 31, 2011 total \$32,008,169. The unofficial FY 2012 year-to-date total is: \$31,679,060.

Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Administration on Aging	\$129,852
<u>Ha Kupuna: National Resources Center for Native Hawaiian Elders</u>	
Mokuau, Noreen K	School of Social Work
We request funds to continue our work on Ha Kupuna: National Resource Center for Native Hawaiian Elders in order to develop and disseminate knowledge of Native Hawaiian elders.	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$259,365
<u>Gene Regulatory Network Evolution and the Origin of Biological Novelities</u>	
Martindale, Mark Q.	Pacific Biosciences Research Center
The project will unravel the gene regulating network that gave rise to mesodermal tissues in animal evolution.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$565,702
<u>Inflammation and Innate Immunity Genes and Colorectal Cancer Risk</u>	
Le Marchand, Loic	UH Cancer Center
Conduct a family-based case-control association study of genetic variation in 38 genes in inflammation and innate immunity pathways and environmental exposures.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$284,811
<u>Regulation of Tumor Promotion by RasGRP1</u>	
Lorenzo, Patricia S.	UH Cancer Center
Investigate the mechanisms of RasGRP1 participation in skin carcinogenesis and the cooperation with oncogenic Ras.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$467,992
<u>Characterizing Mitochondrial DNA Susceptibility to Breast, Colorectal and Prostate Cancers</u>	
Cheng, Iona	UH Cancer Center
This project proposes to comprehensively characterize the genetic diversity of the mitochondrial genome among a diverse sample of subjects in the Multiethnic Cohort Study and will investigate whether inherited differences in mitochondrial DNA influence the risk fo breast, prostate or colorectal cancer.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$221,160
<u>Testing Alternative Stage Models of Smoking Cessation: An Intervention Study</u>	
Herzog, Thaddeus	UH Cancer Center
An intervention study is proposed in which participants receive stage-matched interventions for smoking cessation. The 3-study conditions will use three different staging systems to determine the stage of each smoker. Stage 1 - stages for change. Stage 2 - an alternative developed by the PI. Stage 3 is a control condition.	
Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources	\$4,218,486
<u>RCMI Multidisciplinary and Translational Research Infrastructure Expansion Hawaii (RMATRIX)</u>	
Hedges, Jerris	John A. Burns School of Medicine
Through the RCTR award, we propose to establish the RMATRIX as the integrated "home" for clinical and translational research infrastructure in the State of Hawai'i. By partnering with NCRR programs we seek to reorganize and expand the existing RCMI clinical and translational research infrastructure at UHM.	
Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources	\$2,214,706
<u>COBRE: Center for Cardiovascular Research</u>	
Shohet, Ralph Victor	Department of Medicine
This supplement is to expand the educational initiatives of the parent grant through the development of online training modules.	

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Research

- Health & Human Svc, Dept/NIH - Natl Ctr on Minority Hlth & Hlth Disprty \$47,641
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.
- Health & Human Svc, Dept/NIH - Natl Human Genome Rsch Inst \$3,000
Epidemiology of Putative Causal Variants in the Multiethnic Cohort
Le Marchand, Loic UH Cancer Center
This project will characterize in the five MEC ethnic/racial populations, the associations of putative causal variants discovered for various chronic diseases in large ongoing genomic studies.
- Health & Human Svc, Dept/NIH - Natl Inst of Allergy & Infectious Dis \$44,507
Global HIV Drug Therapies and Mitochondrial Complications and Mechanisms
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.
- Health & Human Svc, Dept/NIH - Natl Inst of Allergy & Infectious Dis \$371,250
Selenoprotein K Modulates Calcium-Dependent Signaling in Immune Cells
Hoffmann, Peter Department of Cell and Molecular Biology
The goals of this project is to determine the functional role of selenoprotein K in immune responses.
- Health & Human Svc, Dept/NIH - Natl Inst of Diabetes, Digestive, Kidney Dis \$43,875
Mechanism of Selenoprotein Synthesis
Berry, Marla J Department of Cell and Molecular Biology
Selenium is present in crucial antioxidant and redox enzymes that function in all aspects of life, from early development through diseases associated with aging, and most biological processes in between. We are investigating how cells incorporate selenium into proteins for the optimum health of the organism.
- Health & Human Svc, Dept/NIH - Natl Inst of Neurological Disorders & Stroke \$322,747
HIV-1 Specific Immune Responses in Thai Individuals with HIV Dementia
Kim, Silvia R Department of Medicine
To test a possible mechanism behind the reason why HIV-1 infected individuals with a strong HIV-1 specific T cell response tend not to develop neurological symptoms of HIV dementia.
- Health & Human Svc, Dept/NIH - Natl Inst on Drug Abuse \$671,832
RGR-Based Motion Tracking for Real-Time Adaptive MR Imaging and Spectroscopy
Ernst, Thomas M. Department of Medicine
This Bioengineering Research Partnership aims to develop (1) an optical head tracking system and (2) real-time adaptive Magnetic Resonance imaging and spectroscopy techniques for use with the tracking system. The tracking system will allow accurate measurement of subject motion and enable successful MR acquisitions without motion artifacts in the data.

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Research

DOC-Dept of Commerce

- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$46,010
Remote Versus Local Forcing of Intraseasonal Variability in the IAS Region: Consequences for Prediction
Xie, Shang-Ping Joint Institute for Marine and Atmospheric Research
To use regional and global models to assess the remote versus local control of intraseasonal variability in the Intra-Americas Sea (IAS) region.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$167,948
Multi-Model Ensemble Forecast of MJO
Wang, Bin Joint Institute for Marine and Atmospheric Research
To develop Multi-coupled Model Ensemble (MME) methodology and real time MME prediction schemes for improvement of the prediction of the Madden-Julian Oscillation (JMO) and the associated western United States precipitation extreme events during the boreal winter.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$76,000
Improved Extended-Range Prediction through a Bayesian Approach: Exploiting the Enhanced Predictability Offered by the Madden-Julian Oscillation
Xie, Shang-Ping Joint Institute for Marine and Atmospheric Research
1) To extend knowledge on the geographical areas & lead times for which the Madden-Julian Oscillation (MJO) may offer enhanced predictability, & 2) to transition that knowledge to enhanced operational National Centers for Environmental Prediction (NCEP)/Climate prediction Center (CPC) forecast products.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$10,000
Third International Conference on Acoustic Communications by Animals
Au, Whitlow W L Joint Institute for Marine and Atmospheric Research
The project will support the Third International Conference on Acoustic Communication by Animals, August 2-5, 2011 in Ithaca, New York.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$32,000
Coral Habitat and the Use of Coral by Recruit Reef Fishes: Evaluation of Watershed Reclamation at Pelekane Bay, West Hawaii
Jokiel, Paul L Hawaii Institute of Marine Biology
The proposed project will provide important supplementary information on in-water responses of coral habitat and the recruit life-stage of a key coral-associated finfish resource that are necessary to fully evaluate a remediation project.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$62,008
Pathogenesis, Associated Morbidity and Potential Control of Acropora Growth Anomalies in Vatia, American Samoa
Aeby, Greta S Hawaii Institute of Marine Biology
We will examine the effect of growth anomalies ("tumors") on the plate coral, Acropora sp. in Vatia, American Samoa. Growth, mortality and reproduction will be compared between healthy and tumored coral colonies. Disease progression will be recorded and a novel method for containing disease (surgical removal) explored.

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DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$141,111
<u>Sea Grant College Program Institutional Program</u>	
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.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$8,466
<u>FY 2010 Aquaculture Research Management Proposal</u>	
Grau, E Gordon	Sea Grant College Program
To implement a 3-year Pacific Islands Coastal Storm Program in partnership with the National Oceanic and Atmospheric Coastal Storms Program that will enhance community resilience to storm-related hazards and climate change impacts in the Pacific region.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$139,700
<u>Fisheries Oceanography: Ecosystems Observations and Research Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To support an array of discrete scientific projects that bridge research investigations to produce ecosystem-level analyses and products.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$126,500
<u>Pacific Islands Monitoring and Sampling Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To develop a Pacific Islands Monitoring & Sampling Program in the U.S. jurisdictions in the Pacific Islands Region (initially Guam, the Commonwealth of the Northern Mariana Islands (CNMI), and American Samoa). Work includes collection of samples, sample processing & Data management & archiving on bottomfish.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$207,360
<u>Fisheries Oceanography: Marine Turtle Research Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To conduct critical research on sea turtle biology and ecology, and foundation activities including training of Pacific islanders and information exchange, fishery observer training, fishery interaction data collection, collection of field data (e.g. growth rates, survival, movements), and long-term monitoring for population trends.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$195,449
<u>Sustaining Healthy Coastal Ecosystem (JIMAR Coastal Research Program)</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To conduct marine debris mitigation work in the Northwestern Hawaiian Islands (NWHI).	
Western Pacific Regional Fishery Mgmt Council	\$89,666
<u>Insular Fisheries of the Western Pacific Region</u>	
Kahng, Sam	Department of Oceanography
Process and analyze commercial and recreational fishing data provided by the State of Hawaii DLNR. Summarize trends across time,spatial patterns, and apply quantitative modeling to assess status of fish stocks.	

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Research

DOD-Department of Defense

Defense, Dept - Air Force	\$475,000
<u>Operations and Management of the Maui Supercomputing Center</u>	
Lassner, David K	Information Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.	
Defense, Dept - Air Force	\$1,488,279
<u>Operations and Management of the Maui High Performance Computing Center</u>	
Lassner, David K	Information Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercoming Center.	
Defense, Dept - Air Force Ofc of Scientific Rsch	\$120,790
<u>Tournament Games with Externalities</u>	
Juarez, Ruben	Department of Economics
The proposal intends to analyze theoretical models of coalition formation, for instance across different cultural characteristics like gender, race, place of origin or language.	
Defense, Dept - U.S. Army Med Rsch Acqstn Actvty (USAMRAA)	\$300,000
<u>Analysis of the Therapeutic Potential of Stem Cells to Facilitate Recovery from Cardiac Disease and Damage</u>	
Allsopp, Richard	Dept Anatomy, Biochemistry, Physiology and Reproductive Biol
Cardiac disease is the leading cause of death for all US citizens. Stem cells hold great potential as a method to treat a variety of human diseases. The goals of this study is to develop a stem cell-based method of therapy to treat accelerate recovery from cardiac damage.	

DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey	\$44,317
<u>FY 2011 Annual Application under Section 104 of the Water Resources Research Act of 1984, as Amended</u>	
Ray, Chittaranjan	Water Resources Research Center
This project consists of 6 proposals covering a range of areas related to water resources research and education as applied to the State of Hawaii.	

Foreign

APEC Climate Center (APCC)	\$225,000
<u>Capacity Building for an APCC Operational ISO MME System</u>	
Wang, Bin	Department of Meteorology
Activity will be devoted to capacity building for developing an APCC operational intra-seasonal oscillation multi-model ensemble system.	
Pusan National University	\$43,518
<u>Studies on Predictability of the Intreaseasonal Variability in the East Asian Monsoon System</u>	
Wang, Bin	International Pacific Research Center
Research activity will be devoted to development of two prediction systems for the Changmaidindices.	

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Foreign

Tsinghua Center for Astrophysics, University of (country: China) \$362,700
Tsinghua Center for Astrophysics Share of collaborative Research with SNIFS and the University of Hawaii 2.2 Meter Telescope
Aspin, Colin Institute for Astronomy
To continue collaboration with the Nearby Supernova Factory in Providing telescope time for the SNIFS instrument and recognize the involvement of a new partner, Tsinghua Center for Astrophysics.

Hawaii- Business and Other

Referentia Systems, Inc \$71,556
F6 Information Resource Sharing Technology (FIRST)
Host-Madsen, Anders Department of Electrical Engineering
The project will make software for a cluster of satellites to operate as network. UH's part is to make software for the communications part.

Referentia Systems, Inc \$50,568
Cluster Routing for a CubeSat Network
Shiroma, Wayne Akira Department of Electrical Engineering
Develop antenna cross link system for a cluster of small satellites.

Hawaii- Government Agencies

Health, Dept - HI \$250,000
Striving for Independence Through Peer Mentoring: Ho'oikaika
Izutsu, Satoru John A. Burns School of Medicine
Project goals and objectives to: 1) increase quality, availability, effectiveness of community-based and educational programs designed to improve health and quality of life and 2) to improve access to comprehensive, high quality health care services by developing an effective, culturally competent system of peer mentoring services for adults with TBI and their families.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI \$190,000
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 - Div of Forestry & Wildlife-HI \$80,000
Statewide Wildlife Conservation Program Coordination and Implementation
Duffy, David C Department of Botany
Contribute research coordination and implementation for various projects within a statewide wildlife conservation program.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI \$64,324
Pu`u Wa`awa`a Planning and Management
Morden, Clifford W Department of Botany
Implement and Manage ongoing and proposed research projects within the Pu`u Wa`awa`a ahupua`a on the island

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Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$20,000
<u>Research to Improve Estimates of Game Harvests and Hunting Participation in the State of Hawai'i Year 4</u>	
Lepczyk, Christopher A	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 - Div of Forestry & Wildlife-HI	\$65,000
<u>Natural Area Reserve Management: Natural Area Reserves Project Coordinator</u>	
Duffy, David C	Department of Botany
Research and manage endangered species in their protective habitats in the state's natural area reserves with a focus on the native ecosystem and species diversity.	
Land & Natural Res, Dept - HI	\$30,039
<u>Recreation Impacts to Reefs at Hawaii Coral Program Priority Site (Year 2)</u>	
Szuster, Brian W	Department of Geography
Implement Recreation impacts to Reefs local action strategy in furtherance of the Hawaii Coral Strategy at Priority site in collaboration with managers and stakeholders.	

Hawaii- Non-Profit Organizations

Chun Foundation	\$10,000
<u>A Novel Scalar to Improve Pediatric Drug Prediction</u>	
Collier, Abby Cherise	Dept of Trop Med, Medical Microbiology and Pharmacology
This work aims to develop a scalar that can be used when defining pediatric drug disposition. The outcome will be better prediction of doses for existing and novel drugs in pediatric patients, reducing toxicity.	
Consuelo Zobel Alger Foundation	\$281,154
<u>Consuelo Research Faculty Project</u>	
Morelli, Paula T	School of Social Work
To provide a faculty member to undertake research in child welfare.	
Hawaii Community Foundation (HCF)	\$50,000
<u>Multifunctional Oleosomes as Nanocarriers for Cancer Therapy</u>	
Su, Wei-Wen Winston	Department of Molecular Biosciences and Bioengineering
Develop synthetic oleosomes with multiple functionalities and examine their efficacy as nanoscale carriers for cancer therapy.	
Oceanic Institute - Ctr for Tropical & Subtrpcl Aquaculture (CTSA)	\$50,000
<u>Regional Biosecurity: Operational Biosecurity and Diagnostic Surveillance</u>	
Tamaru, Clyde S	Sea Grant College Program
Deelop laboratory wit PCR capacity to detect viral pathogens. Two target fish disease are Koi Herpes Virus) KHVD) and Rickettsia Like Organism (RLO).	

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Hawaii- Non-Profit Organizations

Parents and Children Together (PACT)	\$10,000
<u>Mikiala Project</u>	
Yuen, Jo Ann W	Center on Disability Studies
Evaluation of implementation of developmental screening project in Kalihi Valley.	
University of Hawaii Foundation	\$8,000
<u>Cell and Molecular Biology Program</u>	
Humphreys, Tom D II	Pacific Biosciences Research Center
Study of development and regeneration of neural structures of <i>Ptychodera Flava</i> .	
University of Hawaii Foundation	\$255,959
<u>UH Cancer Center: Research on Erionite Exposure (UHF Account #125-9610-4)</u>	
Carbone, Michele	UH Cancer Center
To include but not limited to use in connection with further research on the potential health threats associated with erionite exposure in the United States. (Request for ORS agreement with UHF).	
University of Hawaii Foundation	\$50,000
<u>Inhibition of TRPM7-mediated Mg²⁺ Transport by Waixenicin A as an Anti-Cancer Strategy</u>	
Fleig, Andrea	UH Cancer Center
The scope of this proposed work is to carry out in vivo pharmacology experiments in which a novel natural compound, waixenicin A, is administered to mice and evaluated for anti-tumor activity in experimentally induced colon cancer.	
University of Hawaii Foundation	\$172,889
<u>UH Cancer Center: Research on New Mesothelioma Treatment Agents (UHF Account #125-9620-4)</u>	
Carbone, Michele	UH Cancer Center
To include but not limited to use in connection with further research on the development of new mesothelioma treatment agents. (Request for ORS agreement with UHF).	
University of Hawaii Foundation	\$50,000
<u>Pediatric Oncology Research</u>	
Wada, Randal K	UH Cancer Center
This project will analyze regulatory regions of genes important to neuroblastoma, a common childhood cancer.	

Mainland- Business and Other

Boeing Company	\$5,000
<u>Innovative Research and Optical Systems Support (IROSS) Program - Instrument and Systems Development for AEOS Telescope</u>	
Kuhn, Jeffrey R.	Institute for Astronomy
The IfA will maintain the HiVIS instrument on AEOS and provide reduced data products from this instrument as required for the client. Routine hardware and software instrument upgrades will be completed.	

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Research

Mainland- Business and Other

CH2M Hill, Inc		\$107,531
<u>Evapotranspiration in Hawaii</u>		
Giambelluca, Thomas W	Department of Geography	
We will develop an estimate of the spatial distribution of evapotranspiration (ET) for Hawaii and examine the amount and causes of seasonal and interannual variability of ET. Estimates will be derived from available satellite imagery of clouds and land surface characteristics, and tested using ground-based observations.		
Cellana LLC		\$182,219
<u>Large Scale Production of Fuel Oils and Animal Feed from Microalgae</u>		
Bidigare, Robert R	Hawaii Institute of Marine Biology	
Develop and apply standard operating procedures (SOPs) for harmonization and deployment throughout consortium laboratories to measure a range of key biochemical metrics of performance, up to the level of molecular characterization.		
Chevron Products Company, Hawaii Refinery		\$266,242
<u>Partnership to Develop Measures of Effluent Toxicity Using Tripneustes gratilla Fertilization Assays</u>		
Thomas, Florence	Hawaii Institute of Marine Biology	
To develop fertilization assays that are reliable for effects of effluent on Tripneustes gratilla		
Geoscience Consultants		\$85,525
<u>Characterization of Shear-Driven Upwelling Beneath Western North America: Implications for Volcanic Hazard</u>		
Conrad, Clinton P	Department of Geology and Geophysics	
We plan to develop three-dimensional numerical models of the link between mantle shear and upwelling mantle flow that can induce melting and volcanism. These models will be used to understand the spatial and temporal patterns of volcanism in western North America.		
Jet Propulsion Lab		\$55,200
<u>Cassini Solstice Mission</u>		
Owen, Tobias	Institute for Astronomy	
To study seasonal and other long-term temporal changes on Saturn and its moons, from northern winter solstice to northern summer solstice. The mission extension will allow for continued observations of Saturn's rings and the magnetic bubble around the planet known as the magnetosphere.		
Jet Propulsion Lab		\$5,000
<u>A Deep PACS Survey of AKARI - Deep Field South: Revealing the Connection between AGN and Star Formation</u>		
Goto, Tomotsugu	Institute for Astronomy	
To understand when and how massive galaxies are formed by tracing extreme luminosities resulting		
Malin Space Science Systems		\$4,000
<u>University of Hawai'i Participation in: MAHLI - MARS HandLens Imager for the Mars Science Laboratory</u>		
Rowland, Scott K	Hawaii Institute of Geophysics and Planetology	
This is the University of Hawai'i portion of a multi-institution proposal. The project will build, test, and operate on Mars, a camera for producing close-up images of rocks. These close-up images will allow the team to identify the rock types, and from this, be able to understand some of the geologic processes that have taken place on Mars.		

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Mainland- Business and Other

Millipore Corporation	\$8,000
<u>Research Agreement with Millipore Corporation on Developing a Prototype Instrument</u>	
Su, Wei-Wen Winston	Department of Molecular Biosciences and Bioengineering
Develop a prototype instrument for the Millipore Corporation to their specifications based on technology developed	
Space Telescope Science Institute	\$2,261
<u>TRGB Distances from Archived Data</u>	
Tully, R Brent	Institute for Astronomy
Accurate distances to nearby galaxies can be determined from the observed luminosities of the brightest red giant stars. Data is available in the HST archive to make measurements in 300 galaxies. Newly developed analysis tools will be applied that assure consistency in the measurement of distances for the 300 galaxies.	
Space Telescope Science Institute	\$5,929
<u>Resolving Disks and Jets in a New, Benchmark Low-Mass Binary</u>	
Rayner, John T	Institute for Astronomy
We propose to obtain high resolution imaging of a recently discovered TW Hydrae Association wide, very low-mass binary TWA30A and B. Both sources show spectroscopic and photometric evidence of accretion disks and outflows.	
Space Telescope Science Institute	\$19,500
<u>Ionizing Emission from the Faint Galaxies Responsible for Reionization</u>	
Kewley, Lisa J	Institute for Astronomy
We have identified a large sample of intrinsically faint galaxies that are highly magnified by foreground massive clusters. We propose a single deep near-UV image of a sub-sample of 13 of these galaxies lying behind the well-studied cluster Abell 1689.	
Space Telescope Science Institute	\$36,691
<u>Determining the Rotational Phase of Comet 9P/Tempel 1 in Support of the StardustNExT Mission</u>	
Meech, Karen J	Institute for Astronomy
Analyze the rotation of comet 9P/Tempel 1.	

Mainland- Health Organizations

American Heart Association	\$48,428
<u>Mathematical Modeling of the HIF-1 Pathway in the Heart</u>	
Shohet, Ralph Victor	Department of Medicine
Development of a mathematical model of the activity of Hypoxia Inducible Factor Type 1 in the heart. Experimental data will be used to generate necessary data for equations associated with Hypoxia in the heart tissue.	
American Heart Association	\$49,544
<u>Gene Regulation in Type II Diabetes Endothelium, A Role for Galectin-3?</u>	
Shohet, Ralph Victor	Department of Medicine
The role of galectin-3 in the endothelial dysfunction preceding diabetes will be studied by comparing the gene expression of normal mice versus mice lacking the galectin-3 gene following a high fat diet. Complementary studies to test the effect of galectin-3 loss will be performed on endothelial cells in culture.	

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Mainland- Non-Profit Organizations

Geneva Foundation \$158,447

Development, Deployment, and Cost Effectiveness of a Self Administered Stereo Non Mydriatic Automated Retinal Camera (SNARC) Containing Automated Retinal Lesion (ARL) Detection Using Adaptive Optics

Bursell, Sven-Erik John A. Burns School of Medicine

Development of a beta production unit retinal imaging camera that is portable, inexpensive, and can image through small pupils at low light levels that can be tested clinically.

Seattle Institute for Biomedical and Clinical Research \$21,000

Renewal of Diabetes Prevention Program Outcomes Study - Phase 2

Arakaki, Richard F Department of Medicine

Maintain outcome measures and retention of the Diabetes Prevention Program cohort in Hawaii. Intervention of lifestyle modification and metformin treatment are continued during the course of this proposal in people at risk and who have developed diabetes. In addition, more extensive outcome measures will be obtained in participants who have developed diabetes.

UT-Battelle, LLC \$187,110

Pacific Rim Corrosion Assessment and Mitigation Program (PacRimCAMP)

Hihara, Lloyd H Department of Mechanical Engineering

Conduct research in correlation studies for atmospheric exposure (effect of specimens sheltering and solar radiation), advanced materials, corrosion sensors and corrosion protection strategies (ceramer coatings and corrosion preventative compounds).

National Aeronautics and Space Administration

National Aeronautics & Space Administration \$246,079

Water and Habitable Worlds

Meech, Karen J Institute for Astronomy

This project will trace the history of water from its formation in the interstellar medium to incorporation in the solar system, how it reaches the terrestrial planets, and its role in life.

National Aeronautics & Space Administration \$300,000

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 \$1,590,000

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 \$74,379

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.

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National Aeronautics and Space Administration

National Aeronautics & Space Administration \$6,023

Sample Acquisition and Measurement on Mars (SAM): Mars Science Lander (MSL)

Owen, Tobias Institute for Astronomy

Participation, and data analysis in the mission called "Mars Science Lander". The spacecraft for this mission consists of a rover the size of a small car, loaded with instruments and is scheduled for launch next year, 2011, with a landing on Mars in November 2011. The rover will travel around on Mars for about one year.

National Aeronautics & Space Administration \$208,226

Evaluation and Validation of NPP VIIRS Vegetation Index EDR for Earth System and Climate Sciences

Miura, Tomoaki Department of Natural Resources and Environmental Management

We propose to evaluate and improve the quality of Visible/Infrared Imager Radiometer Suite Vegetation Index Environmental Data Record and its continuity with other satellite sensors. We will use existing in situ observation networks and inter-comparisons for the objectives, and determine accuracy and precision of the data record.

National Aeronautics & Space Administration \$145,000

Origin, Thermal History, and Impact Record of Meteorites and their Parent Asteroids

Scott, Edward R D Hawaii Institute of Geophysics and Planetology

We propose to elucidate the origin of meteorite parent bodies and their impact and thermal histories through detailed mineralogical, chemical and isotopic studies and numerical simulations of accretion in the asteroid belt.

National Aeronautics & Space Administration \$85,000

Sharing Discoveries in Cosmochemistry on the Internet

Taylor, G Jeffrey Hawaii Institute of Geophysics and Planetology

We will write articles for our online magazine, Planetary Science Research Discoveries (www.psr.d.hawaii.edu).

National Aeronautics & Space Administration \$175,000

Investigating the Raw Materials, Processes, and Chronology of the Early Solar System Using Microbeam Techniques

Huss, Gary Robert Hawaii Institute of Geophysics and Planetology

I will use the UH Cameca ims 1280 ion microprobe to study the timing of early solar system events using short-lived radionuclide, the isotopic compositions of the materials that formed the solar system, and the processes that formed metal cores in asteroids and planets.

National Aeronautics & Space Administration \$35,837

Isotopic Analysis of Stardust Samples by Ion Microprobe

Huss, Gary Robert Hawaii Institute of Geophysics and Planetology

We will use the UH Cameca ims 1280 ion microprobe to make isotopic measurements of comet samples that were returned by NASA's Stardust Mission to comet Wild 2.

National Aeronautics & Space Administration \$76,538

Interannual Variability of Ocean Vector Winds Near Ocean Fronts and Coastal Orography

Xie, Shang-Ping Department of Meteorology

We study interannual variability of ocean vector winds observed by satellites and their role in ocean-atmosphere interactions, with a focus on narrow-scale features not resolved by traditional climate datasets.

Gifts, Grants, and Contracts for July 2011

Research

National Aeronautics and Space Administration

National Aeronautics & Space Administration \$30,422

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 Science Foundation

National Science Foundation \$256,138

Collaborative Research: Endangered Languages Catalog (ELCat)

Campbell, Lyle R Department of Linguistics

Preparation of a catalogue, database, and website for endangered languages of the world, collecting and correcting information on endangered languages: their location, number of speakers, classification, need for linguistic documentation.

National Science Foundation \$46,715

I/UCRC Center for Bioenergy Research and Development

Turn, Scott Q Hawaii Natural Energy Institute

UH will participate in the development of novel catalysts for producing liquid biofuels from synthesis gas. UH will characterize contaminants in the synthesis gas that affect catalysts and supply synthesis gas samples.

National Science Foundation \$97,161

Collaborative Research in IPY: Abrupt Environmental Change in the Larsen Ice Shelf System, a Multidisciplinary Approach - Marine Ecosystems

Smith, Craig R Department of Oceanography

We will evaluate patterns of seafloor community development beneath the recently collapsed Larsen B ice shelf, and explore the biodiversity of a the first known cold seep on the Antarctic margin.

National Science Foundation \$88,997

RAPID Response to Tohoku Earthquake: Participation in Marine Geophysical Surveys of the Quake Rupture Zone

Moore, Gregory F Department of Geology and Geophysics

This proposal is to participate in cruises by JAMSTEC to survey the epicentral zone of the recent Tohoku earthquake offshore Honshu, Japan.

National Science Foundation \$806,505

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

Hall, Donald N 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 \$77,039

Infrared Beacons in the Universe - J Band Spectroscopy of Red Supergiants and the Chemical Composition of Star Forming Galaxies

Kudritzki, Rolf-Peter Institute for Astronomy

The purpose of this proposal is to develop, validate and exploit and new technique to study the chemical compositions of star forming galaxies by unlocking the potential of red supergiant stars as chemical abundance probes in distant galaxies.

Gifts, Grants, and Contracts for July 2011

Research

National Science Foundation

National Science Foundation \$53,145

Collaborative Research: Cross-Layer and Unified Signal Processing System Design for Ultra-High-Capacity Next-Generation Magnetic Storage

Kavcic, Aleksandar Department of Electrical Engineering

The objective of this proposal is to develop cohesive signal processing system design solutions to enable future mass data storage hard disk drives with beyond 1~Tbit per square inch areal density using both magnetic recording and NAND flash memory technologies.

National Science Foundation \$286,858

Submillimeter Interferometric Studies of the Fragmentation of High Mass Star Forming Regions

Williams, Jonathan P. Institute for Astronomy

This proposal describes a detailed study of the development of fragmentation of the cold molecular material in high mass star forming regions, from the earliest, pre-stellar phase to the development of ultra-compact HII regions.

US Colleges and Universities

Arizona State University \$14,000

Single and Multi-Layered Ejecta Craters: Characterization of Morphology and Assessment of Possible Mechanisms of Ejecta Emplacement

Boyce, Joseph M. Hawaii Institute of Geophysics and Planetology

The proposed investigation entitled Single and Multi-Layered Ejecta Craters: Characterization of Morphology and Assessment of Possible Mechanisms of Ejecta Emplacement continues to be to use existing THEMIS visible images data (and provided scientific guidance and encouragement for collection of new THEMIS image data.

Arizona State University \$74,500

LROC Targeting and Scientific Analysis

Hawke, Bernard Ray Hawaii Institute of Geophysics and Planetology

This a proposal to conduct scientific studies of images collected by the Lunar Reconnaissance Orbiter Camera.

California Berkeley, University of \$35,500

Adaptable Format Photon Counting Microchannel Plate Detectors for High Performance Imaging and Spectroscopy

Varner, Gary S Department of Physics and Astronomy

Design, fabricate and integration of cross strip tests CSA ASICS.

California Davis, University of \$16,000

2010 IR-4 Western Region Food Use Field Trial Analytical Program

Li, Qingxiao Department of Molecular Biosciences and Bioengineering

We will determine chemical residues of NAA in/on pomegranate.

Johns Hopkins University \$16,815

Longitudinal Survey of Quality of Life and School for Military Children and Their Parents Stationed in Hawaii

Berg, Kathleen F Curriculum Research and Development Group

For 3-year longitudinal study, provide input into parent and children questionnaires, consulting on focus group sampling, and assistance with logistics in setting up focus groups as well as consultation on data interpretation, review and critique of reports, and participation in annual debriefing sessions.

Gifts, Grants, and Contracts for July 2011

Research

US Colleges and Universities

Utah State University \$49,610
Training Livestock to Consume Weeds and Evaluation of Effects on Meat Quality in Tropical and Subtropical Environments
Stevenson, Matthew Department of Human Nutrition, Food and Animal Sciences
Based on mainland research, we propose to apply techniques to train livestock to eat weed species in Hawaii.

Subcount: 99 Subtotal: \$22,127,351

Non-Research

DA-Dept of Agriculture

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$140,000
Sustainable Communities Project Through Successful Community Partnerships
Ikeda, Carol S Department of Family and Consumer Sciences
SCP Through SCP is Hawaii's children, youth, and families "at risk" community based project to strengthen the capacity of children, youth, and families to participate in a culturally diverse, economically challenged and technological advanced society.

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Ctrs for Disease Cntrl & Prvntn (CDC) \$139,333
Share, Integrate, Link American Samoa (SILAS II)
Johnson, Jean Lee Center on Disability Studies
To achieve and integrated data system that links the records of all children born at the Lyndon Baines Johnson Tropical Medical Center (the territory's only hospital) to enable the tracking of children with a hearing loss or abnormal screen following newborn metabolic screening.

Health & Human Svc, Dept - Ctrs for Disease Cntrl & Prvntn (CDC) \$77,663
Identify and Follow: Ajiri in Ibwini
Johnson, Jean Lee Center on Disability Studies
To make sure that babies identified in the Marshall Islands with a significant hearing loss are screened, evaluated, and provided the intervention services they need.

Health & Human Svc, Dept - FED \$535,000
University Center for Excellence in Developmental Disabilities Education, Research & Service
Stodden, Robert A Center on Disability Studies
This grant is being submitted by the UH-CDS to the Administration on Developmental Disabilities for a 5-year grant to provide support for the University Center on Excellence. This will be accomplished through interdisciplinary training, community training and service, research and evaluation, and dissemination activities.

Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA) \$316,782
Advanced Nursing Education Expansion in Hawaii and the Pacific
Qureshi, Kristine School of Nursing and Dental Hygiene
To educate baccalaureate nurses for the role of master's prepared nurse practitioner with a primary care specialty. Upon graduation the faculty will work with the graduate to measure the health impact of primary care level nurse practitioner services on the population served by the graduate.

Gifts, Grants, and Contracts for July 2011

Non-Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$427,920
<u>Pacific Islands Geriatric Education Center</u>	
Masaki, Kamal H	Department of Geriatric Medicine
Allied Health Care professionals training in Geriatrics.	
Health & Human Svc, Dept/NIH - Natl Inst on Drug Abuse	\$202,033
<u>Neuroimaging and Mentoring in Drug Abuse Research</u>	
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.	

DOD-Department of Defense

Defense, Dept - Navy	\$273,765
<u>IPA - Walker</u>	
Gaines, James R	Applied Research Laboratory
Intergovernmental Personnel Assignment Agreement for Starnes Elbert Walker	
Defense, Dept - Office of Naval Research	\$344,874
<u>Acquisition of a Current-measuring System Composed of HF DopplerRadars and Moored Instruments, for Observing the Mesoscale Flow in Sea straits of Interest to the US Navy</u>	
Flament, Pierre J	Department of Oceanography
Acquisition of components to construct three high frequency radars used to measure surface currents in the coastal zone up to 150km offshore and ADCP mooring components.	

ED-Dept of Education

Education, Dept - FED	\$36,148
<u>Khmer Folktales Online: tales of the Hare 9web-based and DVD)</u>	
Sak-Humphry, Chhany	Department of Indo-Pacific Languages and Literatures
Develop instructional materials Khmer Folktales Online: Tales of the Hare in web-based and DVD formats	
Education, Dept - FED	\$303,565
<u>Improving Teacher Quality Grants (2011) - SAHEs</u>	
Sorensen, Christine	College of Education
Administer grant competition within the State of Hawaii for higher education projects to improve teacher quality.	
Education, Dept - FED	\$300,000
<u>Center On Responsive Education (CORE) 1+1</u>	
Pagotto, Louise	Chancellor, Kapiolani Community College
Center On Responsive Education (CORE) 1+1 will provide stipends to 50 students (2 cohorts of 25 student) to complete an associate degree in one of four areas - special education, deaf education, educational interpreting or English as a second language - plus complete a 12-credit certificate program in low incidence disabilities.	

Gifts, Grants, and Contracts for July 2011

Non-Research

ED-Dept of Education

Education, Dept - FED		\$230,000
<u>Windward Community college Educational Talent Search Program -Windward</u>		
Oliveira, Judy	Chancellor, Windward Community College	
Education, Dept - FED		\$121,326
<u>National Resource Center for Pacific Islands Studies at the University of Hawaii</u>		
Wesley-Smith, Terence	Center for Pacific Islands Studies	
The grant will support student scholarships in Pacific Islands Studies at the University of Hawaii		
Education, Dept - FED		\$134,320
<u>National Resource Center for East Asian Studies at the University of Hawaii</u>		
Huey, Robert N	Center for Japanese Studies	
The grant will support curriculum development (language and non-language), outreach activities such as workshops/conferences and library development in East Asian Studies at the University of Hawaii		
Education, Dept - FED		\$230,000
<u>Windward Community College Educational Talent Search Program - Honolulu</u>		
Oliveira, Judy	Chancellor, Windward Community College	
Education, Dept - FED		\$150,000
<u>Strengthening the CORE (Center on Responsive Education)</u>		
Pagotto, Louise	Chancellor, Kapiolani Community College	
Strengthening the CORE is a program improvement project that will develop within the College's new ecology of learning for CORE students. Learning experiences for 30-40 students annually will be expanded and enriched in: classrooms/practicum sites, the new CORE Lab, the community, cyberspace, and other sites.		

Federal Agencies

Vietnam Education Foundation (VEF)		\$28,000
<u>2011 Vietnam Education Foundation Fellowship</u>		
Cooper, Patricia A	Graduate and Professional Education	
Fellowship award to Nhan Hua for 2011-2012 academic year.		

Foreign

American Samoa, Govt of		\$221,894
<u>American Samoa Newborn Hearing Screening Evaluation</u>		
Johnson, Jean Lee	Center on Disability Studies	
Principal Investigator will be conducting the evaluation on two grants received by the American Samoa Department of Health. Both are federally funded grants to establish a newborn hearing screening program and to implement a tracking system for the identified infants.		

Gifts, Grants, and Contracts for July 2011

Non-Research

Foreign

Republic of Marshall Islands \$50,375
Certified Training of RMI Ministry of Health Medical Staff in Basic Life Support Skills
Sakaguchi, Ann M Department of Anthropology
Provide skill-based trainings to RMI medical staff in Majuro and Ebeye on emergency pediatric care with neonatal resuscitation.

Hawaii- Business and Other

Kamehameha Schools \$55,000
Keaukaha Community Resource Center
Ikeda, Carol S College of Tropical Agriculture and Human Resources
To hire a technology program coordinator for the Keaukaha Community Resource Center who will provide educational programs for youth and adults in the community.

Malama Kahalawai Inc \$110,000
Protection of Listed Species Proximate to Helu Peak
Morden, Clifford W Department of Botany
Reduce the threat of invasive ungulate activities in the Helu area of Maui.

Hawaii- Dept of Education

Education, Dept - HI \$119,401
National Resource Center for Southeast Asian Studies at the University of Hawaii
O'Harrow, Stephen D Center for Southeast Asian Studies
The grant will support academic and scholarship programs in Southeast Asian Studies at the University of Hawaii

Hawaii- Government Agencies

Agriculture, Dept - HI \$32,620
A Dash of Aloha II: Healthy Sweet Treats and Snacks Cookbook
Takahashi, Ronald K Chancellor, Kapiolani Community College
To publish and print 5,000 copies of the healthy dessert and snacks cookbook for health education, culinary classes, health promotion and culinary events. UH/KCC will retain copy right of the book and ownership of the 5,000 copies. Publisher will over-print 3,000 copies for retail sales.

County of Hawaii \$25,000
Ku I Ka Mana - New Farmers Initiative
Shigehara, Deborah Chancellor, Hawaii Community College
The proposal will fund a 4 month program to train new farmers to be successful in commercial agricultural pursuits.

County of Maui \$5,000
Maui County Civil Defense Tsunami Symposium
Okimoto, Darren K Sea Grant College Program
The UH Sea Grant Coastal Hazards extension Agent for Maui will provide coordination and facilitation support for the Maui County Civil Defense Tsunami Symposium, and assist with the implementation of longer term strategies for community education and extension following the symposium.

Gifts, Grants, and Contracts for July 2011

Non-Research

Hawaii- Government Agencies

Health, Dept - HI	\$149,480
<u>EMS Planning and Development of Distant Learning on Maui, Kauai and Hawaii</u>	
O'Hagan, Patricia	Chancellor, Kapiolani Community College
Equipment, supplies and a trainer to support EMS education on Kauai, Maui and Hawaii	
Health, Dept - HI	\$9,500
<u>Youth Summit for Teen Suicide Prevention PO# 00858425</u>	
Goebert, Deborah A	Department of Psychiatry
Facilitate, coordinate, and conduct all aspects of 2990 "Braveheart: Youth Summit for Teen Suicide Prevention."	
Health, Dept - HI	\$1,300,000
<u>CDS - DOH Developmental Disabilities Division Proposal</u>	
Ozaki, Rebecca S	Center on Disability Studies
CDS will collect and utilize data to provide recommendations based on community and staff input for effective, efficient, and transparent policies and procedures, provide training for case managers, and streamline reimbursements that impact the health outcomes and services to persons with IDD.	
Human Services, Dept - HI	\$560,876
<u>Quality Care Program</u>	
Fong, Grace	Department of Family and Consumer Sciences
The Quality Care Program will (a) develop the infrastructure for a Quality Improvement rating System for licensed center-based and home-based child care programs, (b) conduct and evaluate a pilot of the system, and (c) implement the Quality Care Program for Home-based Providers over a three year period.	
Human Services, Dept - HI	\$372,163
<u>Bridge to Hope Student Support</u>	
Bill, Teresa J	Women's Center
University of Hawaii will administer and provide campus employment opportunities to eligible TANF/TAONF First-to-Work students through its Bridge to Hope program on all University of Hawaii campuses state-wide	
Human Services, Dept - HI	\$157,596
<u>Adult Basic Education & Vocational Instruction</u>	
Umehira, Ronny T	Chancellor, Leeward Community College
Adult basic education and vocational skills services for First-to-Work participants.	
Human Services, Dept.- Benefits, Employment & Support Services Div - HI	\$107,957
<u>Healthy Child Care Hawaii</u>	
Iwaishi, Louise K	Department of Pediatrics
Collaborate with the Early Learning Council to strengthen health and safety in early childhood education and care; expand a statewide system of child care health consultants; promote health and safety in child care; provide training to pediatric residents with opportunities for teaching early childhood development and health.	
Judiciary, Dept - HI	\$12,605
<u>Indigent Legal Assistance Fund (ILAF) - Legal Services for the Elderly</u>	
Pietsch, James H	William Richardson School of Law
Provide legal services to socially and economically needy persons 60 years and older.	

Gifts, Grants, and Contracts for July 2011

Non-Research

Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI \$125,000
Detection and Eradication of Invasive Deer Species on the Island of Hawaii
Duffy, David C Department of Botany
Develop a strategy to prevent the spread of axis deer populations on the island of Hawaii.

Hawaii- Health Organizations

University Clinical, Ed & Research Assoc. (UCERA) \$296,540
Reimbursement Agreement Fiscal Year 2011 - Agreement No. SF11-UCERA-OD-ADMIN
Hedges, Jerris John A. Burns School of Medicine
Administrative services in support of UCERA's provision of physician services & JABSOM's clinical education programs.

University Clinical, Ed & Research Assoc. (UCERA) \$123,950
Reimbursement Agreement Fiscal Year 2012 - Agreement No. SF12-UCERA-MED
Tam, Elizabeth K Department of Medicine
Agreement to provide medical education to students and residents in a clinical setting.

Hawaii- Non-Profit Organizations

Hawaii Coalition Against Sexual Assault \$26,999
Best Practice Standards for the Delivery of Sexual Assault Services in Hawaii
Baker, Charlene Department of Psychology
UHDPO will convene system coordination meetings in each county and/or island to discuss how best to implement

University of Hawaii Foundation \$6,000
SoA Advisory Council
Llewellyn, Clark School of Architecture
Provide support to the School of Architecture's Advisory Council

University of Hawaii Foundation \$106,381
Building Climate Adaptation and Policy Partnerships with Native Hawaiian Communities
Burkett, Maxine Sea Grant College Program
To expand partnerships with Native Hawaiian and other vulnerable communities to address climate adaptation and policy needs.

University of Hawaii Foundation \$28,916
Mansfield Freeman Research Assistants
Kipnis, Kenneth Department of Philosophy
To pay for the salary & fringe for two graduate research assistants for the Philosophy Department.

Gifts, Grants, and Contracts for July 2011

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$52,339

The Matsuda Sano Chair

Boland, Mary G

School of Nursing and Dental Hygiene

Contract agreement for the transfer of funds from The Matsuda Sano Chair account to provide salary support for Dr. Maureen Shannon who was appointed Matsuda Sano Chair.

University of Hawaii Foundation \$33,000

The Soshitsu Sen XV Distinguished Professor of Traditional Japanese Cultural History

McNally, Mark

Department of History

To partially support the salary and fringe benefits for the Soshitsu Sen XV Distinguished Professor of Traditional Japanese Cultural History.

Mainland- Business and Other

HDRre2M \$7,563

Navy Marine Mammal Species Monitoring Workshop

Au, Whitlow W L

Hawaii Institute of Marine Biology

Attend Navy marine mammal species monitoring workshop in Arlington, VA.

Institute for Higher Education Policy \$16,250

University of Hawaii Financial Literacy Program Training & Development

Kutara, Pamela B C

Department of Family and Consumer Sciences

The UH Financial literacy program team has been invited to participate in the 2011 Institute for Higher Education summer Academy to share and building upon already articulated successes. The focus of this event is building effective communication strategies and planning or ongoing sustainability

Kiewit Infrastructure West Co. \$5,000

Botanical Surveys for the North-South Road

Duffy, David C

Department of Botany

Conduct botanical surveys for invasive species in the Kiewit construction area on Oahu's North-South Road

National Writing Project \$43,000

2010-2011 Continued Funding Application for Hawaii Writing Project

Bartlett, Andrea

Institute for Teacher Education

The HWP is a state-affiliated site of the National Writing Project, a national federally funded professional development network that seeks to improve writing in K-12 classrooms in Hawaii.

National Writing Project \$35,000

Lehua Writing Project

Ebersole, Michele

Chancellor, University of Hawaii at Hilo-UHH

Create a UHH satellite of the Hawaii Writing Project

Gifts, Grants, and Contracts for July 2011

Non-Research

Mainland- Non-Profit Organizations

Association of Universities for Research in Astronomy, Inc (AURA)	\$200,000
<u>Conservation District Use Permit for the Proposed Advanced Technology Solar Telescope</u>	
Maberry, Michael T	Institute for Astronomy
All funding provided by the Association of Universities for Research in Astronomy, on behalf of the National Solar Observaionrh shall be used to provide legal representation for the Univerisiy of Hawaii throughout the Conservation District Use Permitting process and any subsequent legal challenges.	
Friends of the College of the Marshall Islands	\$20,000
<u>Pacific PIN Evaluation</u>	
Tse, Alice M	Department of Nursing
Perform external evaluation and produce final evaluation report of the "Pacific PIN Partnership" grant for Partners Investing in nursing's Future program.	
Link Foundation, The	\$25,000
<u>Link Foundation Ocean Engineering and Instrumentation Fellowship 2011-2012 Fellowship to Masoud Hayatdavoodi; Ocean and Resources Engineering PhD student</u>	
Ertekin, R Cengiz C	Department of Ocean and Resources Engineering
Fellowship is awarded to ORE PhD student, Masoud Hayatdavoodi. A nonlinear, dispersive shallow-water wave theory based on the Theory of Directed Fluid Sheets (Green-Naghdi theory) will be applied to model wave interaction with structures located in shallow waters. Objective: Determination of the wave-induced loads on decks of coastal structures.	
National Association of Counties Research Foundation	\$10,000
<u>Community-Based Restoration of the Waikiki Marine Life Conservation District</u>	
Barrett, Jennifer	Sea Grant College Program
This 2-year project will initiate reef restoration in the Waikiki Marine Life Conservation District through translocation of native corals grown at the Waikiki Aquarium. Community volunteers will support environmental monitoring efforts, and an outreach component will encourage greater civic engagement in coastal stewardship.	

National Science Foundation

National Science Foundation	\$199,641
<u>URM: Environmental Biology in the Pacific Islands</u>	
Hadfield, Michael G	Pacific Biosciences Research Center
Provide support to URM interns for preparation for the Graduate Record Examinations.	
National Science Foundation	\$52,500
<u>URM: Environmental Biology in the Pacific Islands</u>	
Hadfield, Michael G	Pacific Biosciences Research Center
Provide support to URM interns for preparation for the Graduate Record Examinations.	
National Science Foundation	\$28,835
<u>Collaborative Research: RAPID: Post-Disaster Structural Data Collection Following the Tohoku Tsunami</u>	
Robertson, Ian N	Department of Civil and Environmental Engineering
This is an NSF RAPID travel grant proposal to perform data collection after the tsunami that recently struck the NE	

Gifts, Grants, and Contracts for July 2011

Non-Research

National Science Foundation

National Science Foundation \$33,160

NSF Workshop on Fundamental Research and Technology in Wave and Hydrokinetics Power Systems

Ghorbani, Reza Department of Mechanical Engineering

Sponsoring travel for key invites of the NSF Workshop on Fundamental Research and Technology in Wave and Hydrokinetics Power.

National Science Foundation \$999,961

Hawaii's Pre-Engineering Education Collaboration (PEEC)

Pagotto, Louise Chancellor, Kapiolani Community College

Kapiolani CC is proposing development of a "Pre-engineering Education Collaborative" that will support 125 Native Hawaiian students completing baccalaureates at UHM College of Engineering.

US Colleges and Universities

Gallaudet University \$3,858

US-Brazil Consortia 3-2-1

Pagotto, Louise Chancellor, Kapiolani Community College

Kapiolani CC will create educational exchanges between students in the U.S.-Brazil for Deaf Education, signed language, teaching in American Sign Language and Brazilian Sign Language.

Kamaile Academy, Public Charter School \$110,675

CREDE Professional Development at Kamaile Academy 2011-2012

Yamauchi, Lois A Department of Educational Psychology

the purpose of this project is to (a) promote Kamaile Academy teachers' understanding and use of strategies of effective instruction for culturally diverse learners, (b) facilitate teachers' planning of a high school built on this model, and (c) evaluate the effects of professional development on teachers and students.

Kirkwood Community College \$7,532

CCI-Multinational Grant

Goodman, James Chancellor, Leeward Community College

LCC will receive funding to support a cohort size of 12 students from various countries (Turkey, Indonesia, Guatemala, El Salvador, Nicaragua, India, and South Africa) 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 student. Five students will take business courses, four will take culinary, and three digital media.

Western Washington University \$3,522

Students in Service

Pascua, Atina T Service Learning

To provide opportunities for students to be involved in community service and service learning.

Subcount:	61	Subtotal:	\$9,880,818
Count:	<u>160</u>	Total:	<u>\$32,008,169</u>

Funds Received from UH Foundation for 07/01/2011 - 07/31/2011

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$52,339
"The Matsuda Sano Chair"

Boland, Mary G School of Nursing and Dental Hygiene
Contract agreement for the transfer of funds from The Matsuda Sano Chair account to provide salary support for Dr. Maureen Shannon who was appointed Matsuda Sano Chair.

University of Hawaii Foundation \$106,381
"Building Climate Adaptation and Policy Partnerships with Native Hawaiian Communities"

Burkett, Maxine Sea Grant College Program
To expand partnerships with Native Hawaiian and other vulnerable communities to address climate adaptation and policy needs.

University of Hawaii Foundation \$28,916
"Mansfield Freeman Research Assistants"

Kipnis, Kenneth Department of Philosophy
To pay for the salary & fringe for two graduate research assistants for the Philosophy Department.

University of Hawaii Foundation \$6,000
"SoA Advisory Council"

Llewellyn, Clark School of Architecture
Provide support to the School of Architecture's Advisory Council

University of Hawaii Foundation \$33,000
"The Soshitsu Sen XV Distinguished Professor of Traditional Japanese Cultural History"

McNally, Mark Department of History
To partially support the salary and fringe benefits for the Soshitsu Sen XV Distinguished Professor of Traditional Japanese Cultural History.

Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$172,889
"UH Cancer Center: Research on New Mesothelioma Treatment Agents (UHF Account #125-9620-4)"

Carbone, Michele UH Cancer Center
To include but not limited to use in connection with further research on the development of new mesothelioma treatment agents. (Request for ORS agreement with UHF).

University of Hawaii Foundation \$255,959
"UH Cancer Center: Research on Erionite Exposure (UHF Account #125-9610-4)"

Carbone, Michele UH Cancer Center
To include but not limited to use in connection with further research on the potential health threats associated with erionite exposure in the United States. (Request for ORS agreement with UHF).

University of Hawaii Foundation \$50,000
"Inhibition of TRPM7-mediated Mg²⁺ Transport by Waixenicin A as an Anti-Cancer Strategy"

Fleig, Andrea UH Cancer Center
The scope of this proposed work is to carry out in vivo pharmacology experiments in which a novel natural compound, waixenicin A, is administered to mice and evaluated for anti-tumor activity in experimentally induced colon cancer

Funds Received from UH Foundation for 07/01/2011 - 07/31/2011

Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$8,000
"Cell and Molecular Biology Program"
Humphreys, Tom D Pacific Biosciences Research Center
Study of development and regeneration of neural structures of Ptychodera Flava.

University of Hawaii Foundation \$50,000
"Pediatric Oncology Research"
Wada, Randal K UH Cancer Center
This project will analyze regulatory regions of genes important to neuroblastoma, a common childhood cancer.

Count: 10

Total: \$763,484

**Extramural Research Awards
for the Month of
July 2011
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DHHS-Dept of Health and Human Services	15	\$9,866,926	44.59%
DOC-Dept of Commerce	13	\$1,302,218	5.89%
DOD-Department of Defense	4	\$2,384,069	10.77%
DOI-Dept of Interior	1	\$44,317	0.20%
Foreign	3	\$631,218	2.85%
Hawaii- Business and Other	2	\$122,124	0.55%
Hawaii- Government Agencies	7	\$699,363	3.16%
Hawaii- Non-Profit Organizations	10	\$938,002	4.24%
Mainland- Business and Other	13	\$783,098	3.54%
Mainland- Health Organizations	2	\$97,972	0.44%
Mainland- Non-Profit Organizations	3	\$366,557	1.66%
National Aeronautics and Space Administration	12	\$2,972,504	13.43%
National Science Foundation	8	\$1,712,558	7.74%
US Colleges and Universities	6	\$206,425	0.93%
Total:	<u>99</u>	<u>\$22,127,351</u>	<u>100%</u>

**Extramural Non-Research Awards
for the Month of
July 2011
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	1	\$140,000	1.42%
DHHS-Dept of Health and Human Services	6	\$1,698,731	17.19%
DOD-Department of Defense	2	\$618,639	6.26%
ED-Dept of Education	8	\$1,505,359	15.24%
Federal Agencies	1	\$28,000	0.28%
Foreign	2	\$272,269	2.76%
Hawaii- Business and Other	2	\$165,000	1.67%
Hawaii- Dept of Education	1	\$119,401	1.21%
Hawaii- Government Agencies	12	\$2,857,797	28.92%
Hawaii- Health Organizations	2	\$420,490	4.26%
Hawaii- Non-Profit Organizations	6	\$253,635	2.57%
Mainland- Business and Other	5	\$106,813	1.08%
Mainland- Non-Profit Organizations	4	\$255,000	2.58%
National Science Foundation	5	\$1,314,097	13.30%
US Colleges and Universities	4	\$125,587	1.27%
Total:	<u>61</u>	<u>\$9,880,818</u>	<u>100%</u>

**Extramural Research Awards
Year to Date: 07/01/11 - 07/31/11
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DHHS-Dept of Health and Human Services	15	\$9,866,926	44.84%
DOC-Dept of Commerce	13	\$1,302,218	5.92%
DOD-Department of Defense	4	\$2,259,069	10.27%
DOI-Dept of Interior	1	\$44,317	0.20%
Foreign	3	\$631,218	2.87%
Hawaii- Business and Other	2	\$122,124	0.56%
Hawaii- Government Agencies	7	\$699,363	3.18%
Hawaii- Non-Profit Organizations	10	\$938,002	4.26%
Mainland- Business and Other	13	\$783,098	3.56%
Mainland- Health Organizations	2	\$97,972	0.45%
Mainland- Non-Profit Organizations	3	\$366,557	1.67%
National Aeronautics and Space Administration	12	\$2,972,504	13.51%
National Science Foundation	8	\$1,712,558	7.78%
US Colleges and Universities	6	\$206,425	0.94%
Total:	<u>99</u>	<u>\$22,002,351</u>	<u>100%</u>

Note: YTD amounts include adjustments.

**Extramural Non-Research Awards
Year to Date: 07/01/11 - 07/31/11
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	1	\$140,000	1.45%
DHHS-Dept of Health and Human Services	6	\$1,698,731	17.55%
DOC-Dept of Commerce		-\$100,479	-1.04%
DOD-Department of Defense	2	\$607,629	6.28%
ED-Dept of Education	8	\$1,505,359	15.56%
Federal Agencies	1	\$28,000	0.29%
Foreign	2	\$272,269	2.81%
Hawaii- Business and Other	2	\$165,000	1.71%
Hawaii- Dept of Education	1	\$119,401	1.23%
Hawaii- Government Agencies	12	\$2,765,177	28.58%
Hawaii- Health Organizations	2	\$420,490	4.35%
Hawaii- Non-Profit Organizations	6	\$253,635	2.62%
Mainland- Business and Other	5	\$106,813	1.10%
Mainland- Non-Profit Organizations	4	\$255,000	2.64%
National Science Foundation	5	\$1,314,097	13.58%
US Colleges and Universities	4	\$125,587	1.30%
Total:	<u>61</u>	<u>\$9,676,709</u>	<u>100%</u>

Note: YTD amounts include adjustments.