

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Research

DHHS-Dept of Health and Human Services

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
HEALTH & HUMAN SVC, DEPT-NIH-FED	William Chain	Department of Chemistry	Carbonyls to Cancer Therapeutics	The synthesis and biological evaluation of two anti-cancer natural products, englerin A and psiguadial A, and analogs thereof is proposed in the search for new cancer drug leads.	1	212,739
HEALTH & HUMAN SVC, DEPT-NIH-FED NATL CANCER INST	Herbert Yu	Cancer Etiology	Epidemiologic Study of Hepatocellular Carcinoma in the US	This project will investigate the causes of hepatocellular carcinoma (HCC) among Americans and find the reasons responsible for the rise of HCC incidence in the US. The study plan to enroll 1,250 incident HCC cases and 2,500 population controls in the states of Connecticut and New Jersey.	1	797,868
HEALTH & HUMAN SVC, DEPT-NIH-FED NTL INST MENTAL HLTH	Yuanan Lu	Dept of Public Health Sciences and Epidemiology	Modeling Monocyte and Macrophage Based Gene Therapy for NeuroAIDS	The main objective of this study is to test and establish defective lentiviral vector based transduction of primary monocyte-derived macrophage as a delivery system for anti-HIV Tat and a neuroprotective TNFR as potential treatment for neuroAIDS and other neurological disorders.	1	317,931
HEALTH&HUMAN SVC,DEPT-NIH-FED NTL INST BIOMED IMG& BIOENGRG	Victor Andrew Stenger	Department of Medicine	Spectral Spatial Pulses for Gradient Echo fMRI	Artifacts are major limitations in neuroimaging using MRI. This project proposes new techniques for reducing image artifacts and improving data quality, impacting many clinical and research investigations using MRI. These proposed techniques include the use of special spectral-partial pulses and parallel transmitters. The method will be developed and tested in studies of brain function using MRI.	1	239,470

DOD-Department of Defense

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
DEFENSE, DEPT-AIR FORCE	David Lassner	Office of the VP for Information Tech/Chief Info Officer	Operations and Management of the Maui High Performance Computing Center	Post-award change in scope to Task Order 42	1	1,500,000

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DEFENSE, DEPT-AIR FORCE OFC OF SCI RSCH	Marcelo Kobayashi	Mechanical Engineering	Development and Application of a Biologically Inspired Methodology for the Optimized, Multi-disciplinary and Multi-objective Design of Air Vehicles		1	139,804
DEFENSE, DEPT-AIR FORCE SPACE & MISSILE SYS CTR	Luke Flynn	Hawaii Institute of Geophysics and Planetology (HIGP)	LEONIDAS: Low-Earth Orbit Nanosat- Integrated Defense Autonomous Systems	The LEONIDAS project will design, build, test, launch, and operate small spacecraft in low- Earth orbit	1	2,600,000
DEFENSE, DEPT-NATIONAL SECURITY AGY	Roberto Carlos Pelayo	Mathematics (UH Hilo)	Collaborative Research: Pacific Undergraduate Research Experience in Mathematics	The primary goal of the PURE Math program is to increase the number of Pacific Islanders earning degrees and pursuing careers in the mathematical sciences.	1	20,366
DEFENSE, DEPT-NAVY NAVAL SUPPLY SYSTEMS COMMAND	Paul Nachtigall	Hawaii Institute of Marine Biology (HIMB)	Measuring the Hearing of Stranded Cetaceans using Evoked Auditory Potentials	Determine hearing thresholds for stranded whales and dolphins both before and after Naval Exercises to know basic hearing levels and determine the effects of loud sound on hearing	1	199,825

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DEFENSE, DEPT-NAVY OFC OF NAVAL RSCH	Brian Powell	Department of Oceanography	Collaborative Proposal: Ocean Currents Forecasts Using Multi-model-Multi-scale Assimilation	Much of the complexity of numerical forecasting of the ocean is due to the existence of energy that interacts at differing temporal and spatial scales. Because ocean models are a discretized representation of the ocean, there are limits to the scales of the processes that can be resolved by the model. Data assimilation techniques are used to constrain ocean circulation models given observational data; however, the observations often capture dynamics that are not present in the discretized model. Large-scale processes, such as the tides and the atmospherically-forced eddying circulation, lose energy through a cascade from large scales to small, and sub-grid scale processes such as turbulent dissipation are accounted for by parameterizations in ocean models. Internal waves are ubiquitous in the ocean. They interact with each other through wave-wave interactions and bridge the gap in scale between ocean eddies (O(10000) m) and turbulent overturning (O(100) m). Internal tides---internal waves at tidal frequencies---and the atmospherically-forced eddying ocean circulation have typically been simulated separately in regional or global numerical models even though the energy contained in each is of similar magnitude [Arbic et al., 2012]. The goal of this proposal is to develop an assimilation capability that will permit multivariate assimilation of both \emph{in situ} (gliders, floats, buoys) and remotely sensed (SSH, SST, surface velocity) data into multiscale internal-tide-resolving simulations.	1	35,277
DEFENSE, DEPT-NAVY OFC OF NAVAL RSCH	Richard Rocheleau	Hawaii Natural Energy Institute (HNEI)	Asia Pacific Research Initiative for Sustainable Energy Systems (APRISES 2012)	APRISES conducts core research and development activities in fuel cells, methane hydrates, alternative fuels, testing and evaluation of critical emerging technologies, and systems to facilitate secure operation of distributed grid systems including those with high penetration of intermittent renewable generation resources.	1	19,419,871

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DEFENSE, DEPT-NAVY POSTGRADUATE SCHOOL	Paul Nachtigall	Hawaii Institute of Marine Biology (HIMB)	Measuring Low Frequency Hearing Shifts in the Bottlenosed Dolphin		1	429,953

DOI-Dept of Interior

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
INTERIOR, DEPT-NATIONAL PARK SVC	James Beets	Marine Science	Assessment of Changes in Mangrove Fish communities in Virgin Islands National Monument	Assessment of Changes in Mangrove Fish communities in Virgin Islands National Monument	1	8,878
INTERIOR, DEPT-NATIONAL PARK SVC	James Beets	Marine Science	Changes in Fish Assemblages over 50 Years in VIIS based on Fish Trap Sampling		1	17,757

Hawaii- Business and Other

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
ARCHINOETICS, LLC	Olga Boric-lubecke	Electrical Engineering	Self-Powered Wearable Biosensors	Electric power generation from respiration using electromagnetic induction seems promising. We will investigate the optimum methods for the conversion of torso displacement to electricity using electromagnetic generators. We will also build a mechanical torso model to test the efficiency of proposed devices.	1	49,400

Hawaii- Government Agencies

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
HEALTH, DEPT-CHILD/ ADOLESC MENTAL HLTH DIV-HI	Ruby Agoha	Department of Psychiatry	Primary Care Behavioral Health Integration Model	The Department of Psychiatry proposes a Primary Care-Behavioral Health Integration Model to mobilize communities at risk through education and training, address accessibility to mental health care via incorporation of video-teleconferencing and implement a community-based prevention/intervention using an evidence-based program: Communities That Care.	1	100,000

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HEALTH, DEPT-DEVELOPMENTAL DC-HI	Satoru Izutsu	John A. Burns School of Medicine	DOH Neurotrauma Registry 2012	Develop and administer an voluntary registry of Hawaii residents who have neurotrauma injuries.	1	246,943
HEALTH, DEPT-HI	Steven Dollar	School of Ocean and Earth Science and Technology	National Coastal Condition Assessment Program; Continuing Assessment of Coastal Waters of Hawaii	Conduct surveys of 55 randomly selected coastal and estuarine marine habitats throughout the main Hawaiian Islands to continue to add to the standardized database that is being assembled by the USEPA for all coastal states of the US.	1	150,000
LAND & NATURAL RES, DPT-AQUAT (DLNR)	David Duffy	Department of Botany	Ballast Water / Hull Fouling Coordinator	Coordinate the development of a comprehensive plan to prevent the introduction and dispersal of alien aquatic organisms in the ballast water and on the hulls of vessels in Hawaii waters.	1	15,000
LAND & NATURAL RES, DPT-AQUAT (DLNR)	David Duffy	Department of Botany	Fish and Habitat Monitoring and Assessment: Year 3	Monitor and assess marine ecosystems by collecting and compiling data on fish communities, mobile invertebrates, reef benthos, and water temperature and turbidity around Hawaii Island.	1	123,348
LAND & NATURAL RES, DPT-FORST (DLNR)	Clifford W. Morden	Department of Botany	Statewide Plant Conservation Program	Develop and coordinate integrated statewide plant conservation program across partner agencies.	1	120,000
LAND & NATURAL RES, DPT-FORST (DLNR)	David Duffy	Department of Botany	Detection and Eradication of Invasive Deer Species on the Island of Hawaii	Develop and implement a strategy to prevent the spread of axis deer populations on the island of Hawaii.	1	117,607
LAND & NATURAL RES, DPT-FORST (DLNR)	David Duffy	Department of Botany	Natural Area Reserves Management	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.	1	35,000
LAND & NATURAL RES, DPT-FORST (DLNR)	David Duffy	Department of Botany	Prevention, Detection Management of Invasive Forest Ants in the Pacific Region	Implement a regional ant prevention plan for Hawaii and selected U.S. affiliated Pacific Islands.	1	30,000
Office of Information Mgmt & Technology-HI	James Gaines	Pacific Disaster Center	TA State GIS Cloud Project	Establish a test pre-production technical platform and infrastructure in support of the GIS data assets of the State.	1	353,000

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TRANSPORTATION, DEPT-HI	Joseph DeFrank	Tropical Plant and Soil Science	Proposal for the Development Large Scale Seed Production and Roadside Establishment Protocols for Five Native Hawaiian Groundcovers	Seed obtained from the NRCS or locally sourced locations will be used to produced transplants and establish a seed nursery at the CTAHR Waimanalo Research Station. An area of 8000 ft2 of each of the 5 native plant species will planted in a manner consistent with mechanical harvesting operations at the H1 Halawa interchange. Pre and post emergence herbicide screening research on transplants will be designed for the establishment and maintenance of seed production nurseries. Research designed for direct seeded plantings will focus on preplant weed control treatments as well as research on seedling tolerance to pre and post emergence spray applications in the 4-6 week old range. Mechanical seed harvesting equipment will be adapted for species selected for this proposal. Seed cleaning equipment will also be selected in a similar manner. Sequential methods of establishment will be compared to all-at-once introduction of seed mixtures containing both pioneering spices and later term perennials.	1	249,533
TRANSPORTATION, DEPT-HI	Nellie C Sugii	Lyon Arboretum	Developing a Large Scale Delivery System for Roadside Re-vegetation with Native Hawaiian Ferns	Protocol development for in vitro propagation and large scale delivery systems for ferns to be used in roadside re-vegetation.	1	266,676

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TRANSPORTATION, DEPT-HI	Tianwei Ma	Civil and Environmental Engineering	Structural Health Monitoring of Kolekole Bridge	In this project, the Kolekole Bridge, located in Hilo will be instrumented with smart sensors to monitor the performance and condition of the bridge. Real time data including bridge deformation, vibration, and environmental changes will be collected and transmitted through wireless Internet connection to remote workstations located on the campus of University of Hawaii at Manoa. The data will be continuously analyzed to provide timely assessment of the bridge behavior. Alerts will be generated and transmitted to the State upon discovery of abnormalities deduced from the data collected. The proposed work includes design, installation of the sensors, and the development of corresponding data interrogation software.	1	323,000

Hawaii- Non-Profit Organizations

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
CANADA FRANCE HAWAII TELESCOPE	Mark Chun	Institute for Astronomy	Analysis of CFHT mWFS experiment data		1	19,100
HAWAII COMMUNITY FOUNDATION (HCF)	Alexander Stokes	Department of Cell and Molecular Biology	New therapeutics for the treatment of pulmonary fibrosis	This study will determine a new target and therapy for the treatment and protection of the lungs from fibrosis. Utilizing mouse models of pulmonary fibrosis, and delivery of a therapeutic.	1	30,000

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HAWAII COMMUNITY FOUNDATION (HCF)	Chad Walton	Department of Medicine	Further development of a TB point-of-care immune status test	<p>Mycobacterium tuberculosis (Mtb) is the main causative agent for the disease complex Tuberculosis (TB), with additional causal organisms including M. bovis and M. africanum. TB remains the deadliest bacterial plague in the world even though a vaccine (Bacille-Calmette Geurin; BCG) has existed since 1921. Globally, it is estimated that one in every three people is infected with Mtb. Worldwide infection rates exceed 200 million per annum and among those infected, yearly mortality is approximately 1%. TB is a multifactorial disease with many bacterial derived virulence factors and pathogenic sequelae. To date, no point-of-care device exists that can accurately identify TB biomarkers. This proposal is based on instrument development to support a novel biomedical sensor or biosensor. The biosensor is an ultra-sensitive, ultra-low cost silicon-based, batch wafer processed, integrated circuit compatible, high performance FET structure. A number of electrical based biosensors are currently in varying research stages, including; a C-reactive protein detecting MOSFET device, Regenerative Surface Plasmon Resonance (SPR)-based detection of fibrinogen, nanowire-based DNA detection, gold particle/electricalbased detection of cortisol, and Hepatitis A and C detection using a MEMS device. The biosensor we utilize for our experiments has a unique advantage in that it integrates a buried channel that enables simple voltage tunable sensitivity, and avoids the need for a reference electrode. Gate attached biochemical charge is sensed and measured. Low cost supporting instrumentation can be created from conventional off-the shelf electronic instruments. The development of rapid, point-of-care tests is the ultimate goal of any diagnostic device development project. This project builds upon proven technologies and integrates them into a single stable and</p>	1	50,000

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				ultrasensitive device platform that is easily adapted to virtually all biomarkers used in life science and biomedical appli		
HAWAII COMMUNITY FOUNDATION (HCF)	Keith Fong	Department of Anatomy, Biochemistry, and Physiology	Identifying genes correlating encephaloceles with a neural tube defect	Neural tube defects (NTDs) are among the most common birth defects and cause of infant mortality in the State of Hawaii. This proposal will identify genes causitive of specific NTDs when disrupted. We believe our study will provide the groundwork for developing strategies to detect, prevent and treating similar abnormalities in humans.	1	48,000
HAWAII COMMUNITY FOUNDATION (HCF)	Mahavir Chougule	Pharmaceutical Sciences	Receptor Directed Nanotherapeutics for the Treatment of Mesothelioma	We hypothesize that the LHRH targeted NCs of mT-S will selectively deliver high pay load of mT-S to NSCLC cells and will exert superior anticancer activity while sparing normal cells. The targeted NCs of mT-S will be prepared and evaluated for physicochemical characteristics, stability (aim 1), in vitro evaluation for cytotoxicity, cell internalization, mT-S silencing and downstream proteins expression (aim 2) and in vivo evaluation of anticancer activity of mT-S loaded NCs. The proposed study has strong potential to demonstrate untested and innovative approach of siRNA delivery for NSCLC treatment. The primary objective of this proposal is to generate the preliminary data for submission of extramural grant proposals.	1	50,000

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HAWAII COMMUNITY FOUNDATION (HCF)	Monika Ward	Institute for Biogenesis Research	The role of Y chromosome encoded gene Sly in the origin of sperm DNA damage	<p>Chromatin remodeling during spermiogenesis is a key physiological process warranting successful reproduction and if impaired leads to sperm DNA damage and infertility through as yet undefined pathways. Our goal is to investigate the etiology of sperm DNA damage using mouse models with defined Y chromosome gene deficiencies: mice with the deletions of the male specific region of the Y chromosome long arm (NPYq-deficient) and mice with transgenically disrupted function of NPYq encoded gene Sly (shSLY). NPYq region encodes four genes (Sly, Ssty, Asty and Orly), which are multi-copy, have testis specific expression, and are candidates for fertility genes because their deficiency leads to sperm defects and infertility. We have recently shown that mice with NPYq deficiencies have chromatin remodeling defects associated with sperm DNA damage. We have also shown that Sly is responsible for sperm headshape defects and infertility of NPYq deficient mice. What we do not yet know whether Sly is involved in sperm DNA damage phenotype.</p> <p>Therefore, in this application we propose the hypothesis that Sly is responsible for chromatin packaging defects and elevated sperm DNA damage manifested in NPY deficient mice. We will address this hypothesis using two-pronged approach. In Aim 1 we will test for presence of DNA damage and impaired chromatin packaging in sperm from shSLY mice. We will also perform analyses of Sly/SLY expression in spermatids from both shSLY and NPYq deficient mice to correlate the infertile phenotypes with Sly/SLY reductions. In Aim 2, we will perform genetic rescue of NPYq deficient phenotypes using Sly transgenes. Because of infertility of NPYq deficient mice this will be done via intracytoplasmic sperm injection (ICSI). The results of these studies will provide evidence for the involvement of Sly in chromatin remodeling during spermiogenesis,</p>	1	48,000

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				which will be a significant contribution to the understanding of this important process. The study will also enhance		
HAWAII COMMUNITY FOUNDATION (HCF)	Vivek Nerurkar	Department of Tropical Medicine, Medical Micro and Pharm	The role of Aedes albopictus in DENV-1 transmission in Hawaii	The last dengue virus outbreak in Hawaii was caused by strains imported from French Polynesia. To understand the ability of local Ae. albopictus to support dengue virus transmission, we wish to determine the vector competence of Ae. albopictus, and the affects of virus infection on the mosquito survival and fecundity.	1	50,000
HAWAII COMMUNITY FOUNDATION MED RSCH FUNDS	Cedomir Todorovic	Department of Cell and Molecular Biology	Characterization of the molecular effectors of c-Jun-N-terminal kinase isoforms during memory consolidation	In the current proposal we will examine the role of hippocampal JNK pathway on contextual fear formation under acute stress and baseline conditions by employing transgenic, molecular, and behavioral approaches. The studies have implications for understanding the basis of memory impairments in patients with Post-traumatic Stress Disorder.	1	48,000
HAWAII COMMUNITY FOUNDATION MED RSCH FUNDS	Ho Leung Ng	Department of Chemistry	Cell-free recombinant production of the estrogen receptor GPER for drug binding studies		1	49,000
HAWAII COMMUNITY FOUNDATION MED RSCH FUNDS	Joe Ramos	Natural Products	Molecular mechanisms underlying metastatic recurrence of neuroblastoma	This is a grant to examine the role of PEA-15 in neuroblastoma.	1	50,000
HAWAII COMMUNITY FOUNDATION MED RSCH FUNDS	Mahavir Chougule	Pharmaceutical Sciences	Targeted nanocarrier based gene therapy for lung cancer	The proposed study has strong potential to demonstrate untested and innovative approach of siRNA delivery for NSCLC treatment. The primary objective of this proposal is to generate the preliminary data for submission of extramural grant proposals.	1	50,000

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HAWAII COMMUNITY FOUNDATION MED RSCH FUNDS	Wen-Ming Chu	Natural Products	Role of Gia proteins in EGFR-mediated triple negative breast cancer progression and metastasis	Breast cancer is a malignant disease characterized by uncontrolled cell growth in tissues of the breast. It is estimated that about 12.5% women during their life will have breast cancer. Because breast cancer, especially triple negative breast cancer (TNBC), can easily metastasize to distant organs, it becomes more difficult to treat. As a result, breast cancer has become the second cause of death among women cancers. Unfortunately, in Hawaii the death rate of breast cancer is higher than that in most other states in the US. Also, a recent study has suggested that TNBC is associated with increased risk of death for Hawaiian. Regrettably, there is no biological therapy currently available for TNBC, which is associated with a poor prognosis after chemotherapy. Thus, to reduce the death rate of TNBC and identify a better therapeutic strategy for it, there is an urgent need for elucidating the molecular mechanisms underlying TNBC breast cancer progression and metastasis.	1	50,000

Mainland- Business and Other

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
AMERICAN MUSEUM NATURAL HISTORY	Peter Isaacson	Hawaii Institute of Geophysics and Planetology (HIGP)	Spinel-rich lithologies in the lunar highland crust: Linking lunar samples, crystallization experiments and remote sensing	This project will conduct laboratory investigations into the origin of newly-discovered rock types on the Moon. This sub-award will support Dr. Isaacson's participation in the project, largely to conduct reflectance spectroscopy analyses that will help place the experimental products in context with the remote discoveries.	1	6,583
BOEING COMPANY-BOEING LASER TECH SVCS	Jeffrey Kuhn	Institute for Astronomy	UH R&D Support (ODC) - 2011	Provide HiVIS sensor support, routine maintenance, and integration into AEOS TCS as required. Provide maintenance documentation as required. Provide analysis data pipeline support as required.	1	15,000

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BROOKHAVEN NATIONAL LABORATORY	Jelena Maricic	Department of Physics and Astronomy	Long Baseline Neutrino Experiment's Liquid Argon Far Detector	Evaluation and selection, design and fabrication of silicon photomultipliers for photon detection system.	1	30,645
JET PROPULSION LAB-JPL	Robert Jedicke	Institute for Astronomy	Asteroid Retrieval Mission Analysis	Detailed simulations are required to obtain a realistic estimate of the expected ATLAS and PanSTARRS2 discovery rates for small Earth approaching objects in orbits where the objects are either easily retrievable by robotic spacecraft or easily accessible for human exploration (or both).	1	50,000
JET PROPULSION LAB-JPL	Tobias Owen	Institute for Astronomy	Cassini Solstice Mission	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.	1	10,000
JET PROPULSION LAB-JPL	Tobias Owen	Institute for Astronomy	Participation in the ROSINA Team on the ESA ROSETTA Mission	To support the participation of Tobias Owen in the ROSINA Mass Spectrometer Experiment of the European Space Agency ROSETTA Mission.	1	10,000
SPACE TELESCOPE SCIENCE INSTITUTE	Rolf-Peter Kudritzki	Institute for Astronomy	The IMF and Internal Kinematics of the Massive Young Star Cluster, Westerlund 1	We propose to measure the initial mass function (IMF) and kinematics of the most massive young star cluster known in our Galaxy, Westerlund1, in order to determine how star formation proceeded in this dense starburst environment.	1	55,390

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UT-Battelle, LLC	Lloyd Hihara	Mechanical Engineering	Pacific Rim Corrosion Assessment and Mitigation Program Phase II	The Hawaii Corrosion Laboratory will conduct research in the areas of corrosion studies, corrosion of advanced materials, corrosion sensors, and corrosion protection strategies. This comprehensive approach will provide the US Marines with 1) a better understanding of the correlation between accelerated corrosion testing and performance in the natural environment for alloys and/or advanced materials, 2) determination of corrosion mechanisms for advanced materials of interest, 3) the ability to assess corrosivity in real time with the utilization of sensors and 4) strategies to combat corrosion using novel ceramer coatings.	1	399,968

Mainland- Non-Profit Organizations

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
Conservation International - Hawaii Fish Trust	Alan Friedlander	Department of Zoology	Integration of Surveys of the Fisheries of Maunalei-Lanai, Kiholo Bay-Hawaii, and Kahului Harbor-Maui with in situ Ecological Data	Integration of a statistically robust survey of the fisheries of Maunalei-Lanai, Kiholo Bay-Hawaii and Kahului Harbor-Maui with in situ ecological data to assess the ecosystem effects of harvest within the main Hawaiian Islands. Develop a database and analytical structure to analyze these data. Develop a report of finding.	1	10,463

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NATIONAL FISH & WILDLIFE FOUNDATION	Robert H. Richmond	Pacific Biosciences Research Center	Measuring the Effectiveness of Watershed Mitigation Activities on Hawaiian Coral Reefs	Coral reefs throughout the world are in decline from a variety of both human and natural sources of disturbance. Land-based sources of pollution has been identified by the U.S. Coral Reef Task Force and the NOAA Coral Reef Conservation Program as one of the top three priority areas for management-directed actions. There are several watershed mitigation projects underway in the U.S. and affiliated jurisdictions focused on reducing impacts of discharges on coastal reefs, but there has been a notable absence of quantitative performance measures to determine the effectiveness of associated management-directed activities. Recent research, some of which has been supported by funds from the National Fish and Wildlife Foundation, has demonstrated molecular biomarkers of exposure in corals can address the key management needs for assessing watershed discharge impacts on coastal coral reef ecosystems and can also be used for the development of performance measures on the effectiveness of management activities. Molecular biomarkers of exposure, proteins produced by exposed corals to particular classes of stressors, will be used qualitatively and quantitatively to measure the effectiveness of watershed-based mitigation activities on coral health and resilience. The four categories of biomarkers will include those that are indicative of metabolic condition, DNA damage and repair, oxidative stress (associated with sedimentation) and toxicant exposure.	1	24,005
UNIVERSITY CORP ATMOSPHERIC RSCH	Brian Bingham	Mechanical Engineering	NOAA OER ROV Software Development	This document describes the effort by the University of Hawaii (UH) Field Robotics Laboratory (FRL) to support the design, development, testing and installation of the remotely operated vehicle (ROV) software.	1	35,108

Miscellaneous

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ARIZONA GEOLOGICAL SURVEY	Donald Thomas	Hawaii Institute of Geophysics and Planetology (HIGP)	Hawaii Contribution to the National Geothermal Data System	Recover surviving legacy geothermal resources data and enter that data into a web accessible national geothermal database system and maintain a local geothermal data base with all recovered Hawaii geothermal data.	1	125,843

National Aeronautics and Space Administration

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
NATIONAL AERONAUT & SPACE ADM	Alan Tokunaga	Institute for Astronomy	Supplement Funding for NASA Infrared Telescope Facility	The objective of this proposal is to provide an extension of funding for the IRTF to continue operations for 6 months (Feb. 01, 2013 to July 31, 2013) to support NASA-related programs in the areas of mission support, mission science support, and basic solar system research.	2	2,192,064
NATIONAL AERONAUT & SPACE ADM	Bernard Hawke	Hawaii Institute of Geophysics and Planetology (HIGP)	Regional Planetary Image Center	This is a proposal for the support and operation of the Pacific Regional Planetary Image Center.	1	64,900
NATIONAL AERONAUT & SPACE ADM	Bin Wang	Department of Meteorology	Investigation of Tropical Cyclone Intensity Change and Genesis with EOS Observations and Cloud-Resol		1	135,412
NATIONAL AERONAUT & SPACE ADM	Bo Reipurth	Institute for Astronomy	Monitoring the Orion Nebula Cluster	Using the Variable Young Stellar Object Survey (VYSOS) group of telescopes to monitor and study thousands of young stars in the Orion Nebula Cluster.	1	112,132

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NATIONAL AERONAUT & SPACE ADM	Brant Jones	Department of Chemistry	An Experimental Investigation on the Formation of Dipeptides in Solar System Analogue Ices by Ionizing Radiation	<p>The overall goal of this project is to comprehend the formation of a key class of astrobiologically important molecules dipeptides in Solar System ices upon interaction with ionizing radiation. Dipeptides are of crucial importance in the prebiotic evolution as they could have acted as catalysts in the formation of sugars, polypeptides, and enzymes. Dipeptides are also suggested to be involved in the formation of the very first protocells. Our goal will be achieved through an understanding of the formation of carbon-, hydrogen-, oxygen-, and nitrogen-bearing (CHON) molecules in (mineral-doped) Solar System ices of Kuiper Belt Objects (KBOs) by reproducing the Solar System environment in a unique ultra-high vacuum surface scattering machine. This setup allows for the very first time a systematic investigation of the formation of dipeptides and their precursors in low temperature ices exposed to ionizing radiation (solar wind protons and photons) over a wide range of astrophysically relevant parameters such as ice composition, mineral admixtures, and temperature under ultra-clean conditions. Organic residues, which are formed upon annealing of the irradiated samples to room temperature, are dissolved under mild conditions without hydrolyzing potential dipeptides. The latter are separated by microchip capillary electrophoresis (MCE) and micellar electrokinetic chromatography (MEKC) and identified based on cross-correlated retention times. The detection of reaction intermediates and products on line and in situ via complementary detection schemes in the solid state spectroscopically (infrared, Raman, UV/VIS) and in the gas phase (time-of-flight mass spectrometry with photoionization) together with MCE/MEKC extracts the formation of molecules as complex as dipeptides.</p> <p>Our project is significant in that it will elucidate the exogenous synthesis of a key</p>	1	143,000

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				class of complex, organic molecules relevant to the origin of life dipeptides on KBOs. KBOs are small planetary		
NATIONAL AERONAUT & SPACE ADM	David Tholen	Institute for Astronomy	State-of-the-Art Tracking of Faint NEOs	This proposal is for funding to augment a highly successful program of near-Earth object (NEO) follow-up astrometry that is currently funded by a grant from the National Science Foundation.	1	307,747
NATIONAL AERONAUT & SPACE ADM	Eric Gaidos	Department of Geology and Geophysics	A Doppler and Transit Search for Signpost Planets Around Nearby M Dwarf Stars	Establish a lower limit for M stars w/Neptune-mass planets on short orbits; identify additional planets for the mass radius diagram; provide targets for major telescopes; generate a catalog of candidates for planet searches of M dwarf stars zones.	1	74,949
NATIONAL AERONAUT & SPACE ADM	G Jeffrey Taylor	Hawaii Institute of Geophysics and Planetology (HIGP)	Petrologic Evolution of the Moon	This research is to enhance our understanding of the formation of the lunar crust through analysis of lunar samples.	1	95,000
NATIONAL AERONAUT & SPACE ADM	Gary R. Huss	Hawaii Institute of Geophysics and Planetology (HIGP)	Using the Ion Microprobe to Determine the Abundances and Isotopic Composition of Solar Wind Elements in the Genesis Collections	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.	2	79,765
NATIONAL AERONAUT & SPACE ADM	Jeffrey Gillis-davis	Hawaii Institute of Geophysics and Planetology (HIGP)	Laboratory Space Weathering: An Examination of Kinetic Impact Versus Laser Vaporization	The proposal aims to compare two laboratory methods for space weathering materials: Kinetic impact versus laser vaporization. For a given suite of samples, we will examine whether laboratory spectral variations mimic real lunar space weathering and characterize the space weathering products created by each method	1	90,000
NATIONAL AERONAUT & SPACE ADM	Karen Meech	Institute for Astronomy	Archiving a 25-year Ground-Based Primitive Body Imaging Dataset	Archiving a 25-year Ground-based Primitive Body Imaging Dataset	1	120,000
NATIONAL AERONAUT & SPACE ADM	Karen Meech	Institute for Astronomy	Water and Habitable Worlds	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	1	661,151
NATIONAL AERONAUT & SPACE ADM	Paul Grandmont Lucey	Hawaii Institute of Geophysics and Planetology (HIGP)	The Mafic Component of the Lunar Crust	Data from recent lunar satellites will be used to understand the history of the Moon.	1	114,875

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
NATIONAL AERONAUT & SPACE ADM	Tobias Owen	Institute for Astronomy	Sample Acquisition and Measurement on Mars (SAM): Mars Science Lander (MSL)	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.	1	220,809
NATIONAL AERONAUT & SPACE ADM	Tomoaki Miura	Natural Resources and Environmental Mgt	Evaluation and Validation of NPP VIIRS Vegetation Index EDR for Earth System and Climate Sciences	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.	1	200,951

National Science Foundation

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
NATIONAL SCIENCE FOUNDATION	Alexander N Shor	School of Ocean and Earth Science and Technology	Oceanographic Technical Services, R/V Kilo Moana, 2012-2016	This project provides basic and specialized oceanographic technical services that enhance the scientific productivity of research programs aboard the R/V Kilo Moana (KM), a research vessel owned by the U.S. Navy, and operated by University of Hawaii under a charter party agreement with ONR and a cooperative agreement with NSF.	1	509,413
NATIONAL SCIENCE FOUNDATION	Alexander N Shor	School of Ocean and Earth Science and Technology	R/V Kilo Moana Ship Operations 2012-2016	Operation of research vessel R/V Kilo Moana in support of NSF funded ocean science	1	3,156,200
NATIONAL SCIENCE FOUNDATION	Anne Hope Jahren	Department of Geology and Geophysics	Paleoclimate Analysis of a Miocene Arctic Forest from the Kolyma River Basin, Northeastern Russia	Russian literature describes the Miocene sediments of Siberia as temporally extensive and spectacularly rich in fossil forests, however, they have not yet been examined using stable isotope techniques. In this proposal, we describe our plan to collect, archive, and analyze fossils from the Kolyma River Basin of northeastern Siberia.	1	85,683
NATIONAL SCIENCE FOUNDATION	Erica Goetze	Department of Oceanography	Basin-scale genetics of marine zooplankton		1	199,405

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
NATIONAL SCIENCE FOUNDATION	Floyd Reed	Department of Biology (Biology Program)	Preliminary Proposal: Single Locus Speciation Revisited with Nuclear Architecture		1	50,000
NATIONAL SCIENCE FOUNDATION	Jelena Maricic	Department of Physics and Astronomy	CAREER: Enhancing the precision of the Double Chooz experiment with the articulated robotic arm		1	177,707
NATIONAL SCIENCE FOUNDATION	Jennifer Diane Small	Department of Meteorology	CAREER: A Comprehensive Investigation into Cloud-Aerosol Interactions Using Satellite, Aircraft and Model Data	Clouds and aerosols play a critical role in the Earth's hydrologic cycle and energy budget by determining cloud cover, the amount of precipitation, and the response of the climate to anthropogenic emissions. The proposed project will use collocated A-Train satellite observations, aircraft data from field campaigns, and global climate model data to study the interactions of clouds and aerosols on regional and global scales. Aerosol-cloud interactions are among the most important and least understood factors affecting climate change due to the complexity of cloud microphysical and dynamical processes as well as the variety and distribution of aerosol types. The work proposed addresses fundamental mechanisms and processes involved with cloud formation, dissipation, the initiation of precipitation, and the distribution and impact of aerosol type with demonstrated analytical tools and methods. The diversity of data types and scales used in this proposal are compatible with Masters, Doctoral and Undergraduate thesis projects and inquiry based course integration.	1	569,596
NATIONAL SCIENCE FOUNDATION	Lyle Campbell	Department of Linguistics	Doctoral Dissertation Research: Descriptive and Comparative Study of Akuntsu	The project seeks to produce a reasonably comprehensive grammar of Akuntsu, a critically endangered language. Important aspects of Akuntsu culture and their history will also be documented.	1	14,464
NATIONAL SCIENCE FOUNDATION	Pavel Zinin	Hawaii Institute of Geophysics and Planetology (HIGP)	Direct Measurements of Shear and Longitudinal Wave Velocities of Iron and Iron Alloys at High Pressure and High Temperature	The main task of this project is to synthesize graphenes from the B-C-N triangles using high pressure high temperature conditions similar to those that have been used for making crystalline graphite from disordered graphite.	1	90,820

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
NATIONAL SCIENCE FOUNDATION	Richard Hey	Hawaii Institute of Geophysics and Planetology (HIGP)	Test Between Thermal and Tectonic Hypotheses for North Atlantic Seafloor Spreading Geometry Reorganization	Marine geophysical investigation of North Atlantic seafloor spreading reorganization.	1	139,556
NATIONAL SCIENCE FOUNDATION	Shadia Habbal	Institute for Astronomy	Collaborative Research: Exploring the Thermodynamics of the Corona With Total Solar Eclipse Observations	We propose to conduct solar eclipse experiments from two remote locations, Australia and Africa, which offer the best site to obtain total solar eclipse data. Significant improvements in detector technology and image processing techniques yield eclipse images with unsurpassed details in both white light and spectral line emission.	1	194,263

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
NATIONAL SCIENCE FOUNDATION	Yuqing Wang	International Pacific Research Center (IPRC)	Toward improved understanding of rapid intensification (RI) of tropical cyclones	<p>The rapid intensification (RI), which involves interactions between the inner core dynamics and the large-scale environment and among different spatial and temporal scales, is still one of the least understood phases of a tropical cyclone (TC). In this proposed research, we will conduct an investigation focusing on the intensification rate of a TC and the triggering mechanisms of the RI phase based on idealized and real-case simulations and diagnostic and budget analyses using cloud-resolving models. Previous studies have already shown that the rapid formation of a warm core in the upper troposphere is the key to the RI onset of a TC. Therefore we will explore processes that lead to the rapid formation of the upper-tropospheric warm core in TCs. We will address the following three scientific questions:</p> <ul style="list-style-type: none"> &#61548; Given favorable tropical ocean conditions, is the intensification rate of a TC externally or internally determined and can an environmental flow or synoptic-scale forcing increase the intensification rate that a TC could have without those forcings? &#61548; How do the three-dimensional (3D) structure (including the size) and intensity of a TC vortex determine the efficiency of the upper-tropospheric warming and thus the intensification rate of the TC itself? &#61548; How are convective bursts and hot towers triggered and how do they lead to the upper tropospheric warming over the storm core prior to and during the RI? <p>To answer these questions, we will use the TC modelTCM4 developed by the PI and the advanced Weather Research and Forecasting (WRF) model developed at NCAR to conduct a series of idealized and real-case simulations and perform diagnostic and budget analyses to verify our hypotheses, identify the physical mechanisms responsible for the RI. We will develop a conceptual model for better understanding the dynamics of the TC RI. We will also define non-dimensional parameters</p>	1	96,468

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
				as measures of the 3D structure, size and intensity of the TC vortex and t		

US Colleges and Universities

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
ALASKA FAIRBANKS, UNIVERSITY OF	Milton Garces	Hawaii Institute of Geophysics and Planetology (HIGP)	Operational Support of Infrasound Station I59US of the International Monitoring System (IMS)	Operate, maintain and upgrade/sustain the I59 infrasound site in Hawaii.	1	80,000
ALASKA FAIRBANKS, UNIVERSITY OF	Oceana Francis	Civil and Environmental Engineering	Cordova Sectional Barge Study	Develop a coastal design for wave energy for Cordova.	1	11,226
CALIFORNIA INST OF TECHNOLOGY	Norbert Schorghofer	Institute for Astronomy	Laboratory Simulations of Subsurface Ice on Mars	Dr. Schorghofer will collaborate with Principal Investigator Oded Aharonson on laboratory experiments in simulated Mars environments. He will carry out theoretical work for the planning and interpretations of these experiments, and visit Caltech regularly for collaboration.	1	13,601
CALIFORNIA SAN DIEGO, UNIV	Linda Chang	Department of Medicine	Creating a Pediatric Imaging-Genomics Data Resource	The overall goal of this project is to create a combined Imaging (MRI) and Genomics data resource in children, in the form of a multi-center collaboration. UH will enroll subjects for the study, and be in charge of 2 Cores (Medical Core and MR Acquisition Core).	1	12,576
HAWAII PACIFIC UNIVERSITY	Susana Helm	Department of Psychiatry	The Development of a Video-Enhanced Drug Prevention Program for Rural Native Hawaiian Youth	Develop a drug prevention program for rural native Hawaiian youth.	1	42,866
North Carolina, University of	Rachel Novotny	Human Nutrition, Food and Animal Sciences	Improving Dietary Assessment in Children in the NCS -- Hawaii	The purpose of our study is 1) to document what foods are eaten by two to five-year-old children who are Native Hawaiian, Filipino, Chinese, or Pacific Islander. Current national assessments often lack common cultural foods eaten in Hawaii. Collecting the ethnic foods will help make future NCS dietary measures more culturally attuned; 2) to assess an online dietary assessment tool along with other tools used for collecting diet information - diet records and a questionnaire.	1	140,400

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
SOUTH DAKOTA STATE UNIVERSITY	Richard Ogoshi	Tropical Plant and Soil Science	Regional Biomass Feedstock Partnership - Herbaceous Bioenergy Crop Field Trials	Replacing petroleum based fuel with bio-based fuel has the potential to reduce both greenhouse gas emissions and dependence on foreign oil. Environment is a major factor that will govern which crops are grown in what parts of the United States. The SunGrant Initiative, a collaboration of land grant universities and national laboratories across the US, has divided the country into five regions to assess the potential of regional crops. The southeast region has been assigned herbaceous crops that include energycane (hybrids of Saccharum spp.). The Southeast Regional Biomass Feedstock Partnership is a collaboration of institutions that include Mississippi State University, Louisiana State University, Texas A&M University, and Univeristy of Hawaii. Hawaii is part of this group because of its historical connection with sugarcane. Through a set of standardized field trials, the partnership will assess the potential of energycane as a biofuel feedstock crop.	1	9,734
TEXAS A&M UNIVERSITY	Stephen Masutani	Hawaii Natural Energy Institute (HNEI)	UH Subtasks for TAMU Proposal Submitted to the Gulf of Mexico Research Initiative	Conduct laboratory and field experiments to determine deep ocean oil spill plume behavior and participate in the development of submodels of far-field microbial oxidation of contaminant hydrocarbons.	1	90,864
WASHINGTON, UNIVERSITY OF	Lishomwa Ndhlovu	Department of Tropical Medicine, Medical Micro and Pharm	Mechanisms of NK cell Dysfunctions in the Failure to Control HIV Infection	Our long-term goal is to develop novel interventions targeting the Tim-3 pathway to improve the innate immune effector response the natural killer cell response against HIV-1 in order to prevent and durably control infection, thereby halting HIV disease progression.	1	45,000
Research - Total					90	39,776,948

Non-Research

DOC-Dept of Commerce

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
COMMERCE, DEPT-MINORITY BUSN DEV AGENCY-FED	John Morton	Office of the Vice President for Community Colleges	Honolulu Minority Business Center, April 1, 2011 to March 31, 2016	The Minority Business Development Agency Award supports the Honolulu Minority Business Enterprise Center that will provide economic development and technical assistance work to minority enterprises located in Hawaii.	1	295,500
COMMERCE, DEPT-NATL NOAA-FED	Christopher Ostrander	School of Ocean and Earth Science and Technology	Developing the Pacific Islands Ocean Observing System (PacIOOS)	Maintenance and continued development of the instrumentation, modeling, stakeholder engagement, and data management systems of the Pacific Islands Ocean Observing System (PacIOOS), a regional component of the national Integrated Ocean Observing System (IOOS).	1	143,791

Foreign

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
GUAM, GOVERNMENT - Public Health and Social Services	Norman Okamura	Social Science Research Institute	Cooperative Agreement between GDPHSS Northern and Southern regional community health center and central public health clinic.	Cooperative Agreement between GDPHSS Northern and Southern regional community health center and central public health clinic	1	558,694
JAPAN FOUNDATION	James Goodman	Chancellor, Leeward Community College	Leeward CC Language and Cultural Study Tour, 2013	To provide students with firsthand experience that will allow them to gain a more nuanced and balanced understanding of Japan. Students will have opportunity to 1) make realistic connections between what they have learned in class and the authentic situation in Japan 2) engage in meaningful interaction with Japanese people, and 3) visit the significant historical sites of Japan.	1	58,200

Hawaii- Business and Other

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
'OHU'OHU KO'OLAU INC	Clifford W. Morden	Department of Botany	Koolau Mountains Watershed Restoration on Kamehameha Schools Land	Implement restoration management to restore native forested watershed on Kamehameha Schools land in the Koolau Mountains.	1	311,887

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
BISHOP MUSEUM	Norine Yeung	Pacific Biosciences Research Center	UH Undergraduate Research Assistants for Bernice Pauahi Bishop Museum Malacology Collection	Request for two Bernice Pauahi Bishop Museum interns for Malacology Pacific Island land snails and Hawaiian land snails in particular are declining at a rate faster than any other group of animals. Efforts to conserve these groups are predicated on a thorough understanding of their identities, distributions and relationships, and collections housed at museums around the world are crucial to this effort. The Malacology collection at the Bernice Pauahi Bishop Museum (BPBM) contains the most important and comprehensive collection of Pacific Island land snails in the world, and improving accessibility to the collection is critical for assessing land snail biodiversity, studies of their ecology and evolution, and development of effective conservation plans. Additionally, improved accessibility to the collection by the biological research community and public will provide a valuable resource for science outreach activities in cooperation with Gk-12 educators in Hawaii and abroad. As part of ongoing efforts to revitalize the Malacological collections and improve accessibility we are requesting two part-time interns to assist UH researchers and museum affiliates in the organization, documentation and digitizing of the general collection, type materials and historical documents (i.e. field notes, maps, reference lists). While working alongside researchers from UH, museum affiliates and volunteers interns will gain valuable experience with fundamental curatorial activities in biological research, and develop a broader understanding of the data that are critical for assessing the conservation status and taxonomy of Hawaii's endemic biota.	1	8,000
HAWAII COUNCIL FOR THE HUMANITIES	Antoinette Martin	Art (Windward CC)	Crossing Cultures: The Art of Hawaii Manga	This project is an exhibition that explores the art and culture of manga created in Hawaii to be held at Gallery Iolani at Windward Community College from September 6 to October 2, 2013.	1	4,000

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
KAMEHAMEHA SCHOOLS	Jamie Kamilani Boyd	Chancellor, Windward Community College	CNA to LPN to RN Nursing Pathway	To provide academic education and career-focused skill training in Certified Nurse Aide to Licensed Practical Nurse to Registered Nurse Pathway	1	163,907
KAMEHAMEHA SCHOOLS	Margit Watts	Curriculum Research and Development Group	Get FIT - Culture-Based Teaching and Learning	Monies are to continue the support of both the Get FIT outreach initiative to high school students on the neighbor island sand the Get FIT students at Manoa who strive making teaching a career	1	30,000
MAUI COUNTY COMMUNITY TELEVISION	Clyde M. Sakamoto	Chancellor, UH Maui College	MCTV Educational Access Activities, Responsibilities, Services For Higher Education - Channel 55 (MCTV) Services and Activities	University of Hawaii Maui College (UHMC) operates, maintains, creates programming and manages the broadcast/cablecast operations of MCTV, Cable 55. Channel operations are headquartered within the Kaaie Building on the Kahului campus. Operations are coordinated by The Media Center. The channel is operated 24/7/365.	1	77,048
PAPA OLA LOKAHI	Maile Taulii	Office of Public Health Studies	Administration Services for the Native Hawaiian EpiCenter Project - Maile Taulii	Provide administration services for the Native Hawaiian EpiCenter. 1. Monitor and report on the health status of Native Hawaiians. 2. Respond to inquiries on the health of Native Hawaiians. 3. Advise on the development of data resources on Native Hawaiian health.	1	19,277

Hawaii- Dept of Education

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
EDUCATION, DEPT-HI	Gene I. Awakuni	Chancellor, UH West Oahu	MOU with Department of Education	To support a Native Hawaiian Educational Outcomes Council coordinator. Funds shall be used to pay for salaries, benefits, supplies, equipment, and any other operational expenses required by the Coordinator to carry out his/her duties and responsibilities	1	30,000

Hawaii- Government Agencies

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
AGRICULTURE, DEPT-HI	Tetsuzan Ron	Human Nutrition, Food and Animal	Aquaculture Producer Workshop: Business Management and Marketing	To help the Hawaii aquaculture industry survive difficult economic times and	1	4,500

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
		Sciences		challenges, we wish to continue offering producer workshops in 2013. We plan to offer a Business Management and Marketing workshop. The aquaculture industry has an unprecedented opportunity for growth, but that growth will require that producers be armed with business development skills that can lead to sound management and the development of viable long-term growth strategies.		
COUNTY MAUI OFC OF ECON DEVEL	Lori T Teragawachi	Continuing Education and Training (UH Maui College)	Ka Ipu Kukui Fellows Leadership Program 2013	The Ka Ipu Kukui Fellowship is a year-long program designed to train community identified future leaders. A Decisions Maui and Focus Maui Nui initiative, the Ka Ipu Kukui Fellowship program was conceived to promote and develop future leaders through a community-based program designed to address planning for Maui Nuis future.	1	15,000
COUNTY MAUI OFC OF ECON DEVEL	Robert Howerton	Sea Grant College Program	Maui County Aquaculture Extension Program	The major role of the Maui County Aquaculture Extension Program is to serve as a conduit between researchers involved in developing technologies to improve production capabilities, hatchery operations, husbandry practices and transferring the developed technologies to Maui County's aquafarmers	1	40,000
HAWAII TOURISM AUTHORITY	David Duffy	Department of Botany	Mitigating the Impacts of Stinging Ants at Hilo Beach Parks and Panaewa Zoo		1	68,160
HAWAII TOURISM AUTHORITY	Donald Straney	Imiloa Astronomy Center Of Hawaii	Hula Enrichment Programming at 'Imiloa		1	25,000
HAWAIIAN HOME LANDS, DEPT-HI	Carl Imaikalani Evensen	Natural Resources and Environmental Mgt	Hawaiian Home Lands Agricultural Education Program	Provide educational and technical assistance to DHHL leases to develop successful commercial agricultural enterprises or subsistence agricultural activities.	1	95,000
HAWAIIAN HOME LANDS, DEPT-HI	James Leary	Natural Resources and Environmental Mgt	DHHL GORSE CONTROL PROJECT	kill gorse at kahikinui	1	8,000

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
HEALTH, DEPT-FAMILY HLTH SVC DIV-HI	Charlene Ono	Chancellor, Kauai Community College	Title X Family Planning, Reproductive Health Clinical, Community Outreach, Information, Health Education Services	Kauai Community College Campus Wellness Center (CWC) is reapplying for the Department of Health (DOH) Title X Family Planning Services Grant to continue to address the identified limitation of access to family planning services and to expand services to Waimea, area with the highest teen pregnancy, socio-economic risk, and chlamydia rates on the island.	1	73,500
HEALTH, DEPT-FAMILY HLTH SVC DIV-HI	Deborah Gardner	School of Nursing and Dental Hygiene	Hawaii Rural Health Web Link		1	20,000
HEALTH, DEPT-HI	Jason E Maddock	Office of Public Health Studies	Hawaii Physical Activity and Nutrition Coalition	This project continues nutrition and physical activity coalitions on Maui and Kauai.	1	164,732

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
HEALTH, DEPT-HI	Luoluo Hong	Vice Chancellor for Student Affairs	Title X Family Planning Services	<p>The University of Hawaii at Hilo's (UH Hilo) Student Medical Services (SMS), Family Planning Clinic (FPC) is a continuing project that provides clinical and informational services in family planning and related areas, primarily to the students at UH Hilo and Hawaii Community College (Hawaii CC) but also to community members. The FPC is administered under the UH Hilo SMS, an organization within the Office of Student Affairs. UH Hilo is a state run institution located in the city of Hilo on the Big Island of Hawaii. The Big Island is classified as a medically underserved community with a severe shortage of healthcare providers. The UH system has a long history of commitment to the health care of students, local, national and international. Many of whom are away from home with no access to convenient, low cost medical care.</p> <p>The FPC was established in 1993 with a Title X grant from the Office of Family Planning. Services offered include a broad range of high-quality clinical family planning and preventative health services. In addition to contraception, FPC performs STD testing and treatment, testing for pregnancy, counseling and with referral to the appropriate agency, treatment of urinary tract and vaginal infections. Male clients are welcomed and receive STD testing and treatment, testicular exams and treatment for genital conditions. Clients are referred to social service, school counselors and other medical providers and specialists as needed. The program is completely voluntary and confidential.</p>	1	121,500
HEALTH, DEPT-HI	Rebecca Rude Ozaki	Center on Disability Studies/University Affiliated Pgms	CDS - DOH Developmental Disabilities Division Proposal	<p>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.</p>	1	199,709

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
HEALTH, DEPT-TOBACCO SETTLEMENT-HI	Jason E Maddock	Office of Public Health Studies	Hawaii Health Data Warehouse Project	Maintain and enhance the functionality of the Hawaii Health Data Warehouse; add new data sets; provide and develop new data quality reports to data providers & users; provide user/creator trainings; conduct community orientation sessions; update and maintain website(s); revise HHDW universes; upgrade hardware and software	1	1,015,000
HIGH TECHNOLOGY DEVELOPMENT CORPORATION-HI	Steven Nien Hsia Chiang	Plant and Environmental Protection Sciences	HTDC Manufacturing Extension Partnership Program 2013		1	30,000
HUMAN SERVICES, DEPT-HI Benefits, Employment & Support Services	Teresa Bill	Women's Center	Bridge to Hope Student Support	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.	1	90,000
LAND & NATURAL RES, DPT-AQUAT (DLNR)	Darren Lerner	Sea Grant College Program	Implementation of the South Kohala Conservation Action Plan	The coral reef ecosystems of the South Kohala area, including Pelekane Bay, Puako Bay, Anaehoomalu Bay, are considered important and is a high priority management area for the Hawaii Coral Reef Working Group (CRWG). Focusing on land-based sources of pollution into the bays, three major planning documents have identified projects to be implemented: Pelekane Bay Watershed Management Plan (Stewart 2005), Waiulaula Watershed Management Plan (Maunakea Soil and Water Conservation District 2009), and the South Kohala Conservation Action Plan (The Nature Conservancy of Hawaii, 2012). Implementation of actions listed in these plans is the focus of this project.	1	80,000
LAND & NATURAL RES, DPT-AQUAT (DLNR)	Michael Hamnett	Social Science Research Institute	Assessment of the Hawaii Coral Reef Strategy	This project will assess the outputs and outcomes of DAR'S Hawaii Coral Reef Management Grants FY2010 projects. This project will also facilitate meetings and dialogue with potential projects, DAR planner, and contracts specialist to ensure grant projects specified in the HCRS are awarded. Finally, this project will help raise awareness of the grant by sharing the outputs and outcomes from the funded projects.	1	28,500

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
LAND & NATURAL RES, DPT-FORST (DLNR)	David Duffy	Department of Botany	Koloa Recovery Information, Education, and Outreach	Conduct outreach to educate public on the necessity of removing mallard and mallard hybrid ducks for the protection of native Koloa Maoli ducks on Kauai.	1	19,515
LAND & NATURAL RES, DPT-FORST (DLNR)	David Duffy	Department of Botany	Support for Invasive Species Planning and Compliance Projects Relating to Small Mammals	Coordinate and provide expertise on projects addressing the control and/or eradication of rodents and mongoose within the State of Hawaii.	1	35,000
PUBLIC SAFETY, DEPT-HI	Noreen Mokuau	School of Social Work	Sex Offender Services Officer	To Provide a clinical director who is experienced in the administration of sex abuse education and treatment services in a correctional Institution.	1	192,758
TRANSPORTATION, DEPT-HI	C S Papacostas	Civil and Environmental Engineering	Hawaii Local Technical Assistance Program	Provide technology transfer to local transportation agencies.	1	418,929

Hawaii- Health Organizations

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
HAWAII MEDICAL SRVC ASSN FOUNDATION	Colette Browne	School of Social Work	Improving Na Kupuna Health: A Dissemination Model Translating Research to Practice in Native Hawaiian Communities	To conduct seminars and community presentation in developing, conducting, and evaluating a dissemination model aimed at improving the health and well beings of our elders.	1	43,084
PACIFIC IN VITRO FERTILIZATION INSTITUTE	Lynnae Karen Sauvage	Department of Obstetrics, Gynecology and Women's Health	Reimbursement Agreement Fiscal Year 2012 - Agreement No. SF12-PIVF-OBGYN	Agreement to provide medical education to students and residents in a clinical setting.	1	165
UNIVERSITY CLINICAL EDUCATIONAL & RSCH ASSOC (UCERA)	Allen Hixon	Department of Family Medicine and Community Health	Reimbursement Agreement Fiscal Year 2013 - Agreement No. SF13-UCERA-FMCH	Agreement to provide medical education to students and residents in a clinical setting.	1	61,194

Hawaii- Non-Profit Organizations

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
HAWAII COMMUNITY FOUNDATION (HCF)	Michael Hamnett	Social Science Research Institute	Reef Connections-Supplement	Funds from this grant will allow us to continue our momentum and partnerships with Kaiser High School, Roosevelt High School, McKinley high School, Waialae Elementary, Koko Head	1	5,000

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
				Elementary, and any new school that is eager to learn about Hawaii's near shore marine habitats during the first quarter of the school year. The education coordinator, with support from the program director and a student helper, will introduce teachers to Reef Pulse Hawaii (www.reefpulsehawaii.com). She will also provide logistical support for in class speakers, field trips and help build partnerships with community partners. This project will help us realize our goal of seeing students exposed to science that is fun and relevant to their lives.		
HAWAIIAN SILVERSWORD FOUNDATION	Clifford Morden	Department of Botany	'Imi Pono no ka 'Aina Environmental Education and Outreach Program for the Three Mountain Alliance Watershed Partnership	Supporting outreach and education programs for Hawaii Island teachers and students through the Three Mountain Alliance Watershed Partnership.	1	86,548
TRI-ISLE RES CONSERVATION & DEV COUNCIL	David Duffy	Department of Botany	Support for the Maui County Invasive Species Committee Project	Detect, control, and eradicate various alien invasive species on Maui.	1	733,525
UNIVERSITY HAWAII FOUNDATION	Amirhossein Amiraslani	Science, Technology, Engineering and Mathematics Department	UH Maui College- Math Coaching Professional Development AY `13- `14	To support UH Maui College's Math Coaching Professional Development program in AY 2013-2014	1	9,650
UNIVERSITY HAWAII FOUNDATION	Ardis Eschenberg	Chancellor, Windward Community College	HKL Castle WCC Paipai'o Ko'olau Initiative	Salaries and Fringe benefits and other need supplies for the support of the Paipai Koolau initiative at WCC to increase college access and completion	1	40,000
UNIVERSITY HAWAII FOUNDATION	Jo-Ann C Leong	Hawaii Institute of Marine Biology (HIMB)	Twenty Five Years of Edwin W. Pauley Summer Programs in Marine Biology: A Synthesis of Scientific Contributions and Human Resource Development	We propose to retrospectively identify the scientific contributions of the Pauley Summer Program. The methods of dissemination for this information will be the creation of two web-based resources, an enhanced Edwin W. Pauley Summer Program website and the novel Kane'ohe Bay Information System website.	1	19,532
UNIVERSITY HAWAII FOUNDATION	John Morton	Office of the Vice President for Community Colleges	Hawaii Community College - Palamanui		1	4,821,600

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
UNIVERSITY HAWAII FOUNDATION	Judith Lemus	Hawaii Institute of Marine Biology (HIMB)	HIMB Fishpond Mobile App		1	9,457
UNIVERSITY HAWAII FOUNDATION	Leslie Kimura	Imiloa Astronomy Center Of Hawaii	Imiloa Astronomy Center Membership	Payroll and fringe salaries for Membership Coordinator and Membership Sales Staff.	1	112,092
UNIVERSITY HAWAII FOUNDATION	Lorna Tsutsumi	College of Agriculture, Forestry and Natural Resource Mgt	Adopt a Beehive with Alan Wong	The project is to promote honey bee awareness through private donations which support UHH beekeeping courses. the request is for clerical and maintenance support.	1	20,000
UNIVERSITY HAWAII FOUNDATION	May Okihiro	Department of Pediatrics	The Hawaii Initiative for Childhood Obesity Research and Education (HICORE)	HICORE provides a collaborative multi-disciplinary leadership effort in research and education on childhood/adolescent obesity in Hawaii. It brings together individuals, community, and organizations to understand and address this epidemic among the most vulnerable of Hawaii children and families.	1	34,664
UNIVERSITY HAWAII FOUNDATION	Nancy Johnson	Allied Health Department	Improve Oral Health for Native Hawaiian Prenatal Mothers and Children	Using Healthy People 2020 Oral Health Goals, UHMC Oral Health Center, Dental Assisting and Dental Hygiene faculty and staff members, in collaboration with the Hui No Ke Ola Pono, Inc., Native Hawaiian Health Care System, will develop and implement a culturally appropriate project that will target all Native Hawaiian children and pregnant women on the island of Maui.	1	75,209
UNIVERSITY HAWAII FOUNDATION	Peter Arnade	College of Arts and Humanities	Faculty Excellence Awards	To award faculty for various College of Arts and Humanities cash awards (Excellence in Teaching, Excellence in Research, Excellence in Scholarship, etc.)	1	4,000

Mainland- Business and Other

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
ELI LILLY & COMPANY	Richard Arakaki	Department of Medicine	Two Treatment Approaches for Human Reg U-500 Ins in Subjects with Type 2 DM Not Achieving Adequate Glycemic Control on High-Dose U-100 Ins Therapy	Primary objective is to compare the change in A1c from baseline after 24 weeks of treatment between 2 treat-to-target algorithms of U-500R insulin in patients with Type 2 DM on high-dose U-100 insulin (>200 units and <600 units per day)	1	38,417

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
GILEAD FOUNDATION - GILEAD SCIENCES INC	Cecilia Shikuma	Department of Medicine	GS-US-292-0104; A Phase 3, Randomized, Double-Blind Study to Evaluate the safety and Efficacy of Elvitegravir/Cobicistat/Emtricitabine/ Tenofovir Alafe	We plan to recruit, screen, enroll and manage HIV-infected, HIV treatment inexperienced and experienced participants on a research study investigation an experimental combination treatment regimen. We will be administering the study drugs, then monitoring the participants for side effects and efficacy.	1	76,065

Mainland- Health Organizations

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
AMERICAN HEART ASSOCIATION	Chad Walton	Department of Medicine	HIF Induced Cardiac RNA Splicing: A closer look at CaMKIIγ	Our overall goal of the proposed research is to elucidate the role of CaMKIIγ splice variants in regulating the response to hypoxia.	1	2,000

Mainland- Non-Profit Organizations

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
Asian & Pacific Islander American Health Forum	Neal Palafox	Department of Family Medicine and Community Health	Pacific Center of Primary Care and Health Equity	The DFMCH Center staff will provide programmatic technical assistance and evaluation services, as well as fiscal management. The community-based organization will mobilize a USAPI Jurisdiction-wide effort to formulate and expand current efforts to achieve policy, systems, and environmental improvements.	1	300,000

US Colleges and Universities

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
BAYLOR COLLEGE OF MEDICINE	Lee Buenconsejo-Lum	Department of Family Medicine and Community Health	Intercultural Cancer Council Hawaii-Pacific Islands Regional Meeting - Sustainable Partnerships to Reduce Cancer and Non-Communicable Disease (NCD)	The overall Symposium agenda includes plenary sessions, rapid-fire Town Hall discussions and breakout sessions featuring community-based success stories. Participants will include the USAPI comprehensive cancer control (CCC) program coordinators and Cancer Council of the Pacific Islands, members and partners of the Hawaii CCC and NCD programs, policy makers, researchers and public health experts.	1	40,000

Gift, Grants, and Contracts for Apr 1, 2013 to Apr 30, 2013

Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
HARVARD UNIVERSITY	Jonathan Williams	Institute for Astronomy	Institute for Astronomy Support For Christopher Beaumont	Christopher Beaumont will be working with Harvard Professor Alyssa Goodman at the Harvard Center for Astrophysics (CfA) on a collaborative project as part of this PhD thesis research. He will be analyzing data from mauna Kea telescopes and comparing with numerical simulations and other observational data.	1	19,082
PURDUE UNIVERSITY	Claire Nakatsuka	Family and Consumer Sciences	Military Community Family and Youth Extension Program	Funding provides camp experience for military youth 14-18 years of age.	1	91,060
TENNESSEE TECHNOLOGICAL UNIVERSITY	Susan Hippensteele	Womens Studies	CAT Dissemination	This project is a pilot study under NSF Grant Award No 1022789. University of Hawaii at Manoa is one of several universities asked to pilot the new version of the CAT instrument which we have been using for educational research and learning assessment purposes on campus under CHS#19372 since Fall 2011.	1	15,000
Non-Research - Total					57	11,102,451
Overall - Total					147	50,879,399

Funds Received from UH Foundation for Apr 1, 2013 to Apr 30, 2013

Non-Research

Sponsor Type	Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
Hawaii- Non-Profit Organizations	UNIVERSITY HAWAII FOUNDATION	Lorna Tsutsumi	College of Agriculture, Forestry and Natural Resource Mgt	Adopt a Beehive with Alan Wong	The project is to promote honey bee awareness through private donations which support UHH beekeeping courses. the request is for clerical and maintenance support.	1	20,000
Hawaii- Non-Profit Organizations	UNIVERSITY HAWAII FOUNDATION	Peter Arnade	College of Arts and Humanities	Faculty Excellence Awards	To award faculty for various College of Arts and Humanities cash awards (Excellence in Teaching, Excellence in Research, Excellence in Scholarship, etc.)	1	4,000
Hawaii- Non-Profit Organizations	UNIVERSITY HAWAII FOUNDATION	John Morton	Office of the Vice President for Community Colleges	Hawaii Community College - Palamanui		1	4,821,600
Hawaii- Non-Profit Organizations	UNIVERSITY HAWAII FOUNDATION	Judith Lemus	Hawaii Institute of Marine Biology (HIMB)	HIMB Fishpond Mobile App		1	9,457
Hawaii- Non-Profit Organizations	UNIVERSITY HAWAII FOUNDATION	Ardis Eschenbe	Chancellor, Windward Community College	HKL Castle WCC Paipai'o Ko'olau Initiative	Salaries and Fringe benefits and other need supplies for the support of the Paipai Koolau initiative at WCC to increase college access and completion	1	40,000
Hawaii- Non-Profit Organizations	UNIVERSITY HAWAII FOUNDATION	Leslie Kimura	Imiloa Astronomy Center Of Hawaii	Imiloa Astronomy Center Membership	Payroll and fringe salaries for Memebership Coordinator and Memebership Sales Staff.	1	112,092
Hawaii- Non-Profit Organizations	UNIVERSITY HAWAII FOUNDATION	Nancy Johnson	Allied Health Department	Improve Oral Health for Native Hawaiian Prenatal Mothers and Children	Using Healthy People 2020 Oral Health Goals, UHMC Oral Health Center, Dental Assisting and Dental Hygiene faculty and staff members, in collaboration with the Hui No Ke Ola Pono, Inc., Native Hawaiian Health Care System, will develop and implement a culturally appropriate project that will target all Native Hawaiian children and pregnant women on the island of Maui.	1	75,209

Funds Received from UH Foundation for Apr 1, 2013 to Apr 30, 2013

Sponsor Type	Award Sponsor	PI Name	Department	Title	Project Goals	Award Count	Award Amount
Hawaii- Non-Profit Organizations	UNIVERSITY HAWAII FOUNDATION	May Okihiro	Department of Pediatrics	The Hawaii Initiative for Childhood Obesity Research and Education (HICORE)	HICORE provides a collaborative multi-disciplinary leadership effort in research and education on childhood/adolescent obesity in Hawaii. It brings together individuals, community, and organizations to understand and address this epidemic among the most vulnerable of Hawaii children and families.	1	34,664
Hawaii- Non-Profit Organizations	UNIVERSITY HAWAII FOUNDATION	Jo-Ann C Leong	Hawaii Institute of Marine Biology (HIMB)	Twenty Five Years of Edwin W. Pauley Summer Programs in Marine Biology: A Synthesis of Scientific Contributions and Human Resource Development	We propose to retrospectively identify the scientific contributions of the Pauley Summer Program. The methods of dissemination for this information will be the creation of two web-based resources, an enhanced Edwin W. Pauley Summer Program website and the novel Kane'ohe Bay Information System website.	1	19,532
Hawaii- Non-Profit Organizations	UNIVERSITY HAWAII FOUNDATION	Amirhoss Amiraslar	Science, Technology, Engineering and Mathematics Department	UH Maui College- Math Coaching Professional Development AY `13- `14	To support UH Maui College's Math Coaching Professional Development program in AY 2013-2014	1	9,650
Overall - Total						10	5,146,204

**Extramural Research Awards for the Month
Apr 1, 2013 to Apr 30, 2013
Distribution by Sponsor**

Sponsor Type	Award Count	Award Amount	Percentage
DHHS-Dept of Health and Human Services	4	1,568,008	4%
DOD-Department of Defense	8	24,345,096	61%
DOI-Dept of Interior	2	26,635	0%
Hawaii- Business and Other	1	49,400	0%
Hawaii- Government Agencies	13	2,130,107	5%
Hawaii- Non-Profit Organizations	12	542,100	1%
Mainland- Business and Other	8	577,586	1%
Mainland- Non-Profit Organizations	3	69,576	0%
Miscellaneous	1	125,843	0%
National Aeronautics and Space Administration	17	4,612,755	12%
National Science Foundation	12	5,283,575	13%
US Colleges and Universities	9	446,267	1%
Overall - Total	90	39,776,948	100%

**Extramural Non-Research Awards for the Month of
Apr 1, 2013 to Apr 30, 2013
Distribution by Sponsor**

Sponsor Type	Award Count	Award Amount	Percentage
DOC-Dept of Commerce	2	439,291	4%
Foreign	2	616,894	6%
Hawaii- Business and Other	7	614,119	6%
Hawaii- Dept of Education	1	30,000	0%
Hawaii- Government Agencies	21	2,744,803	25%
Hawaii- Health Organizations	3	104,443	1%
Hawaii- Non-Profit Organizations	13	5,971,277	54%
Mainland- Business and Other	2	114,482	1%
Mainland- Health Organizations	1	2,000	0%
Mainland- Non-Profit Organizations	1	300,000	3%
US Colleges and Universities	4	165,142	1%
Overall - Total	57	11,102,451	100%

**Year to Date Extramural Research Awards
Jul 1, 2012 to Apr 30, 2013
Distribution by Sponsor**

Sponsor Type	Award Count	Award Amount	Percentage
DA-Dept of Agriculture	27	7,554,456	4%
Dept of State	1	1,222,050	1%
DHHS-Dept of Health and Human Services	66	35,718,872	18%
DOC-Dept of Commerce	52	19,279,172	10%
DOD-Department of Defense	69	45,916,682	23%
DOE-Dept of Energy	8	5,761,014	3%
DOI-Dept of Interior	48	4,985,668	2%
ED-Dept of Education	4	1,348,081	1%
Federal Agencies	8	3,133,035	2%
Foreign	22	3,183,346	2%
Hawaii- Business and Other	20	1,382,177	1%
Hawaii- Government Agencies	113	16,683,748	8%
Hawaii- Health Organizations	6	805,960	0%
Hawaii- Non-Profit Organizations	59	4,446,782	2%
Mainland- Business and Other	60	3,557,322	2%
Mainland- Health Organizations	8	447,957	0%
Mainland- Non-Profit Organizations	23	1,297,551	1%
Miscellaneous	1	125,843	0%
National Aeronautics and Space Administration	75	13,948,310	7%
National Science Foundation	76	20,518,841	10%
US Colleges and Universities	89	9,349,099	5%
Overall - Total	835	200,665,966	100%

Year to Date Extramural Non-Research Awards
Jul 1, 2012 to Apr 30, 2013
Distribution by Sponsor

Sponsor Type	Award Count	Award Amount	Percentage
DA-Dept of Agriculture	16	2,732,786	2%
DHHS-Dept of Health and Human Services	24	11,172,119	7%
DOC-Dept of Commerce	15	3,810,653	2%
DOD-Department of Defense	9	2,041,284	1%
DOI-Dept of Interior	10	264,833	0%
DOT-Dept of Transportation	1	124,784	0%
ED-Dept of Education	58	26,444,550	17%
Federal Agencies	14	20,993,743	13%
Foreign	32	6,524,294	4%
Hawaii- Business and Other	31	2,292,351	1%
Hawaii- Dept of Education	7	7,472,176	5%
Hawaii- Government Agencies	148	21,747,487	14%
Hawaii- Health Organizations	39	12,325,354	8%
Hawaii- Non-Profit Organizations	117	17,717,707	11%
Mainland- Business and Other	27	1,621,006	1%
Mainland- Health Organizations	5	162,024	0%
Mainland- Non-Profit Organizations	24	4,361,519	3%
National Aeronautics and Space Administration	7	1,479,628	1%
National Science Foundation	28	12,478,731	8%
US Colleges and Universities	36	3,454,341	2%
Overall - Total	648	159,221,370	100%