



**INNOVATION IN
THE ISLANDS OF
OPPORTUNITY**



COME DISCOVER LIFE SCIENCES INNOVATION IN THE ISLANDS OF OPPORTUNITY

The Hawaii Pavilion represents Hawaii Life Sciences, a network of collaborators bringing together life science companies, research organizations, entrepreneurs and supporters building the life sciences industry in Hawaii. Our companies and research institutes are on the leading edge of innovation in the life sciences including:

- Vaccine candidates in clinical or pre-clinical development target: Zika virus, West Nile virus, Tick borne flaviviruses, Crimean-Congo hemorrhagic fever virus, Chikungunya virus
- Drug development by repositioning FDA-approved compounds for new therapeutic indications in Autoimmune Disease and Cancer
- Instant machine-readable microtags for product authentication
- Custom automated microfluidics and imaging platforms for cell biology and embryology researchers
- Breakthrough 3D light microscope with the flexibility and multiple features of a universal microscope
- Programmable abdominal manikin for simulating a variety of abdominal conditions
- Groundbreaking programs at the University of Hawaii, the UH Cancer Center, and the UH John A. Burns School of Medicine
- New technology cluster for start-ups focusing on geriatric and disability-related research and development

CYTHERA PHARMACEUTICALS

2800 Woodlawn Drive, Suite 101, Honolulu, Hawaii 96822 | (808) 366-3111 | cytherapharm.com



CyThera Pharmaceuticals, Inc. is a drug development company repositioning FDA-approved drugs for new therapeutic indications in autoimmune disease and cancer. The company's core competency centers on compounds screened against ion channel proteins. Based on patented technology, the company is developing a topical cream that is predicted to resolve psoriatic skin lesions. The same technology is being developed as a pill to fight Multiple Sclerosis and Rheumatoid Arthritis.

EDGE-3D

P.O. Box 792169, Paia, Hawaii 96779 | (808) 344-5954 | edge-3D.com



Edge is innovating 21st century 3D microscopes for research, industry, medicine and education. Our objective is to improve visualization of the microscopic world by dramatically expanding depth of focus and by making microscope images visible in three dimensions. By offering exceptional 3D microscopes for affordable prices Edge is providing powerful and easy to use systems to solve modern problems. Edge microscopes allow scientists to visualize specimens 10 to 20 times thicker than conventional microscopes; this enables the observer to perceive an entire three-dimensional volume, thereby providing more complete information.

HAWAII BIOTECH

650 Iwilei Road, Suite 204, Honolulu, Hawaii 96817 | (808) 792-1399 | hibiotech.com



Hawaii Biotech, Inc. (HBI) is focused on the research and development of vaccines for established and emerging infectious diseases. The company has developed proprietary expertise in the production of recombinant proteins applicable to the development of safe and effective vaccines. Current vaccine candidates in clinical or pre-clinical development target the Zika virus, West Nile virus, Tick borne flaviviruses, Crimean-Congo hemorrhagic fever virus, and Chikungunya virus. HBI's drug development activities are focused on small molecule drugs that block intracellular and extracellular bacterial toxins. Product opportunities include anti-toxin drugs for the lethal factor from *B. anthracis* and the botulinum toxin from *C. botulinum*.

HAWAII GERIATRIC RESEARCH CLUSTER

2800 Woodlawn Drive, Suite 100, Honolulu, Hawaii 96822 | (808) 539-3806 | htdc.org



The Hawaii Geriatric Research Cluster is an initiative of the Hawaii Technology Development Corporation (HTDC) establishing a technology cluster in Hawaii focusing on geriatric and disability-related R&D and manufacturing. Hawaii has the fastest growing aging population in the U.S. making it a prime location for research, clinical trials and product testing. HTDC is seeking companies in such areas as medical sciences, biomechanical engineering, personal medical device technology and tools for the aging and disabled. Nutrition, drug therapies, medical devices, and new wellness techniques are some of the innovations needed to improve the quality of life for this growing senior population.

SCORPIO-V: A Division of HNu-PHOTONICS

350 Ho'ohana Street, Kahului, Hawaii 96732 | (808) 244-7800 | scorpiov.com



SCORPIO-V, a division of HNu-Photonics, specializes in creating automated microfluidic and imaging platforms for sophisticated cell biology, tissue and organ-on-a-chip investigations. The high-throughput, remote-controlled and automated features allow long-term experiments with multiple drug delivery options supporting drug discovery, cancer biology, stem cell, Assisted Reproductive Technologies (ART) research and individualized cancer and stem cell therapies. SCORPIO-V has developed the BioChip SpaceLab, an automated microfluidic and microscopy facility for long-term live-cell investigations onboard the International Space Station National Lab (ISS-NL).

SMARTUMMY

1001 Wilder Avenue, #806, Honolulu, Hawaii 96822 | (808) 599-6383 | smartummy.com



SmarTummy was established around a programmable abdominal manikin that simulates various abdominal conditions such as acute appendicitis, gallbladder disease, distended urinary bladder, peritonitis, enlarged liver, abdominal distension and other conditions configurable through a graphic user interface, unlike presently available static products. Also, unlike other currently available plastic manikins SmarTummy has the palpable texture and heat conductivity of human skin. The conceptual prototype has been issued four utility patents and the company is presently in the process of producing a clinical prototype.

TRUTAG TECHNOLOGIES

2045 Lauwiliwili Street, Building 3, Kapolei, Hawaii 96707 | (808) 878-8247 | trutags.com



TruTag Technologies, Inc. is a leader in precision fabrication of nano-porous silica for drug delivery, product authentication, and data intelligence solutions. The TruTag® platform addresses the \$1 trillion global opportunity for sustained release drug therapy, and provides product identity and security solutions to address counterfeit, diverted and adulterated products that impact the pharmaceutical, life sciences, food, electronics, industrial, and consumer goods industries. TruTag is able to extend the Internet of Things (IoT) to a plethora of new, non-web-connected objects and products with its microscopic ingestible optical memory devices (iOMs), which are made of precision fabricated nano-porous silica that is read using TruTag's advanced spectral readers.

UNIVERSITY OF HAWAII RESEARCH & INNOVATION

2425 Campus Road, Sinclair 10, Honolulu, Hawaii 96822 | (808) 956-9035 | hawaii.edu/research



Research conducted by the University of Hawai'i (UH) impacts the quality of life in the islands and around the world. Because of Hawai'i's tremendous geographic diversity that encompasses erupting volcanoes, frozen summits, tropical rain forests and the deep ocean, UH research is equally as diverse with its world-renowned research programs in astronomy, earth and ocean sciences, medicine and tropical agriculture. UH has cutting edge research facilities like the Daniel K. Inouye Center for Microbial Oceanography: Research & Education, Institute for Biogenesis Research, John A. Burns School of Medicine and the UH Cancer Center.

UNIVERSITY OF HAWAII CANCER CENTER

701 Ilalo Street, Honolulu, Hawaii 96813 | (808) 586-3010 | uhcancercenter.org



The UH Cancer Center is one of only 69 research organizations in the country designated by the National Cancer Institute. The Center's purpose is clear: develop new strategies for discovery, drive findings into clinical practice and deliver the optimal outcome when a patient is faced with the prospect of treatment and recovery. Research areas of focus include epidemiology, molecular carcinogenesis, prevention methods, quality of life in cancer survivors, new therapeutic approaches to cancer treatment, and community-based interventions to promote cancer preventive lifestyles in the state's multi-ethnic population.

UNIVERSITY OF HAWAII JOHN A. BURNS SCHOOL OF MEDICINE

651 Ilalo Street, Honolulu, Hawaii 96813 | (808) 692-0899 | jabsom.hawaii.edu



The John A. Burns School of Medicine (JABSOM) at UH is the largest biomedical research facility in Hawaii and one of the leading medical education institutions in the United States. Advanced medical and biomedical research at JABSOM has received international recognition for pioneering work in human fertility, human heredity, comparative genetics, evolution theory, infectious disease, pharmacology, and cross cultural psychiatry, among other fields. More recently, JABSOM has made contributions in AIDS, in Kawasaki's Disease, and the epidemiology of heart disease. For the last three years, JABSOM has ranked #1 in National Institutes of Health research awards among community-based public medical schools.

STATE OF HAWAII DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

P.O. Box 2359, Honolulu, Hawaii 96804 | (808) 587-2750 | invest.hawaii.gov



The Business Development & Support Division (BDSD) of the Hawaii Department of Business, Economic Development and Tourism (DBEDT) promotes industry development and economic diversification by supporting existing and emerging industries in Hawaii and by attracting new investment and businesses to the State.

MAUI ECONOMIC DEVELOPMENT BOARD

1305 N. Holopono Street, Suite 1, Kihei, Hawaii 96753 | (808) 777-7550 | medb.org



Established in 1982, the Maui Economic Development Board (MEDB), is a 501 (c) (3) nonprofit organization dedicated to achieving a balanced economy in Maui County. The MEDB team focus includes technology-related industries such as agri-tech, energy, and healthcare.

Hawaii Life Sciences is a network of collaborators bringing together life science companies, research organizations, entrepreneurs and supporters building the life sciences industry in Hawaii. For more information on Hawaii Life Sciences go to:
<http://hawaiilifesciences.net>.



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