AN INTRODUCED COPEPOD IN SF ESTUARY: GENETIC DIVERSITY IN A RECENT INVASION
By: Allegra Briggs, Dr. Sarah Cohen, and Dr. Wim Kimmerer
Marine Biology
Faculty Advisor: Dr. Wim Kimmerer

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By: Amanda del Rosario, Huy Ngo, and Dave Joun
Microbiology
Faculty Advisor: Dr. Jennifer Breckler

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By: Anya P. Burdick and Dr. Katharyn E. Boyers
Conservation Biology
Faculty Advisor: Dr. Katharyn E. Boyers

SIMULATING RAD52 REPAIR PROTEIN KINETICS IN RESPONSE TO DNA DOUBLE STRANDED BREAKS
By: Ari Akerstein
Cell and Molecular Biology
Faculty Advisor: Dr. Javier Arsuaga

THE ACTIONS OF ECDYSIS TRIGGERING HORMONE IN INTERMOLT LARVAL INSECTS
By: Arianna Tamvacakis
Physiology and Behavior Biology
Faculty Advisor: Dr. Megumi Fuse

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By: Daniel Bravo and Natasha Liu
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SENSITIZATION OF DEFENSIVE RESPONSES INDUCED BY NOXIOUS STIMULI IN THE HORNWORM, MANDUCA SEXTA
By: Emily Merchasin and Dr. Megumi Fuse
Physiology and Behavioral Biology

Faculty Advisor: Dr. Megumi Fuse

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By: Hani El Shawa and Dr. Megumi Fuse
Physiology and Behavioral Biology
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By: Hyunsoon Kang, Dr. Sophie Le Pogam, Sonal Rajyaguru, Sharon Jiang, and Dr. Nick Cammack
Biomedical Laboratory Science
Faculty Advisor: Dr. Lily Chen and Dr. Isabel Najera (Roche)

INCIPIENT SPECIATION IN THE DIAMOND TURBOT (PLEURONICHTHYS GUTTULATUS)
By: Jeff Schinske and Dr. Eric Routman
Ecology and Systematic Biology
Faculty Advisor: Dr. Eric Routman

PREDICTION OF PROTEIN-LIGAND INTERACTIONS USING COMPUTATIONAL MODELS OF ACTIVE SITES
By: Joanna Lipinski
Physiology and Behavioral Biology and Computing for Life Sciences
Faculty Advisor: Dr. Rahul Singh and Dr. Jonathon Stillman

ATF3 REPRESSION OF INTERFERON BETA
By: Karendip Braich
Cell and Molecular Biology
Faculty Advisor: Dr. Steve Weinstein

INVESTIGATION OF PRES2 MUTATIONS AS EARLY CLINICAL MARKERS FOR DEVELOPMENT OF SEVERE LIVER DISEASES IN CHRONIC HEPTATIS B INFECTION
By: Kristen Andreatta
Biomedical Laboratory Science
Faculty Advisor: Dr. Joe Romeo

A FOOD WEB MODEL OF THE SF BAY ECOSYSTEM TO UNDERSTAND THE IMPACT OF INVASIVE SPECIES
By: Martin Olson and Rachel Hertog
Marine Biology
Faculty Advisor: DR. PETER ROOPNARINE

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By: Mimi Ly
Cell and Molecular Biology
Faculty Advisor: Dr. Steve Weinstein

MICRORNA EXPRESSION PROFILING IN HUMAN BREAST CANCER CELL LINES
By: Molly Klein-McDowell, Andrei Goga, Chris Benz, Paul Yaswen, Dr. Koei Chin and Joe
W. Gray
Cell and Molecular Biology
Faculty Advisor: Dr. Leticia Marquez-Magana and Dr. Koei Chin (UCSF)

PRESIDIO NATIONAL PARK SPIDER BIODIVERSITY ASSESSMENT
By: Pedro Morgado, Misha Leong, and Theresa Shelton
Conservation Biology
Faculty Advisor: Dr. John Hafernik

BIVALVE MORPHOLOGY AND COMMUNITY STRUCTURE IN THE LATE MIOCENE DOMINICAN REPUBLIC
By: Rachel Hertog and Dr. Peter D. Roopnarine
Ecology and Systematic Biology
Faculty Advisor: Dr. Peter D. Roopnarine

PROLIFERATIVE ROLES FOR PAX3 AND PAX7 IN THE DEVELOPING CHICK SOMITE
By: Rachel Kadzik, Tiffany Barnes, and Lisa Galli
Cell and Molecular Biology
Faculty Advisor: Dr. Laura Burrus

DO YOU KNOW YOUR BRAIN? UNDERSTANDING NOVICES' VS. EXPERTS' CONCEPTIONS ABOUT LEARNING AND MEMORY
By: Rebecca Fulop
Cell and Molecular Biology
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By: Roberto M. Barrozo
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By: Shaun Baesman
Microbiology
Faculty Advisor: Dr. Ed Carpenter

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By: Tara Cornelisse
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Faculty Advisor: Dr. John Hafernik

PREDICTING CIS-ACTING ELEMENTS WITH BIOINFORMATIC METHODS
By: Tobias Sayre
Cell and Molecular Biology
Faculty Advisor: Dr. Zheng-Hui He

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By: Wendy Rosenthal
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Faculty Advisor: Dr. Wilfred Denetclaw Jr.

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By: Yurixsa Martinez, Katie Sanders, and Marina Meyerzon
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By: Chris Cornell
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By: Georgi Diankov and Dr. Andrew S. Ichimura
Chemistry
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By: Jovilynn Olegario
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Computer Science
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By: Arturo Flores, Lala Motlhabi, Rocco Varela, and Elinor Velasquez

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MINING TEMPORAL PLACENTAL MICROARRAY DATA
By: Ben Dalziel
Computing for Life Sciences
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By: Rajani Kuchipudi
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By: Tim Le
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By: Vishwanadh Tirumalshetty
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By: Beth Zygielbaum
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By: Brian Fuller
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By: Jeff Hansen
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By: Jill Marshall
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AN OPTICAL CHARACTERIZATION OF SAN FRANCISCO BAY WATER
By: Johnathan Brown
Applied Geosciences and Oceanography
Faculty Advisor: Dr. Newell Garfield

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By: Robert Humphries
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By: Anastasia Chavez and Chris O'Neill
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By: Adam Garland
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Faculty Advisor: Dr. Chris McCarthy

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By: Liliana I. Lopez and Dr. Adrienne Cool
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By: Rachel Strickler
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ISOFORM SELECTIVE PI3-KINASE INHIBITORS IN BREAST CANCER CELL LINES
By: Antonio Luna
Cell and Molecular Biology
Faculty Advisor: Dr. Leticia Marquez-Magaña and Dr. David Stokoe (UCSF)

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By: Briana McCarthy
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PHOSPHORAMIDATE DERIVATIVES OF HYDROXYSTEROIDS AS INHIBITORS OF PROSTATE-SPECIFIC MEMBRANE ANTIGEN
By: Lisa Yong Wu, Jacinda Do, Marat Kazak, Helen Page, Yoko Toriyabe
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Faculty Advisor: Dr. Marc O. Anderson and Dr. Clifford Berkman

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By: Thet Oo
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Faculty Advisor: Dr. Mohammad Kafai

5TH WHEEL
By: Nikola Kravik, Jesse Lee, Harpreet Singh, and Oluwatoberu Thomas
Mechanical Engineering
Faculty Advisor: Dr. A.S. Ed Cheng

IDENTIFYING AN APPROPRIATE BLOOD SUGAR ASSAY FOR MANDUCA SEXTA
By: Allison Dias and Rocio Diaz
Physiology and Behavioral Biology
Faculty Advisor: Dr. Megumi Fuse

SALINITY TOLERANCE IN INVASIVE ASCIDIANS
By: Amelia Rodelo
Ecology and Systematic Biology
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MBC DISRUPTION OF LIPID RAFTS REVERSIBLY INHIBITS BREAST MUSCLE CELL CULTURE DIFFERENTIATION VIA NITRIC OXIDE SIGNALING
By: Izhar Batth, Sannah Ladiwalla, Jared M. Greenberg, and Dr. Wilfred Denetclaw Jr.
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By: Lorna Watt, Brendan Colloran, Dr. Gretchen LeBuhn
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Faculty Advisor: Dr. Carmen Domingo

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By: Seung Jong Lee
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Faculty Advisor: Dr. Wilfred Denetclaw Jr.

IDENTIFICATION AND CHARACTERIZATION OF SCHIZOSACCHAROMYCES POMBE TELOMERASE RNA GENE
By: Teresa F. Reyes and Dr. Sally G. Pasion
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Faculty Advisor: Dr. Sally G. Pasion

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By: Yessica Martinez, Mike Oda , Giorgio Cavigiolio, and Ethan Geiei
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Faculty Advisor: Dr. Leticia Marquez-Magaña

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By: Alberto Luis, Jasmin Kristianto, Sharon Woo, and Yu His
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Faculty Advisor: Dr. Nancy C. Gerber

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By: Brian Blank
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By: Hanine Rafidi, Timothy Acker, Brandon Williams, and Candace Wong
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Faculty Advisor: Dr. Teaster Baird

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By: Heath Kornblum and Dr. Marc Andersen
Biochemistry
Faculty Advisor: Dr. Marc Andersen and Dr. Cliff Berkman

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By: Helen Lee and Mohamad Azimi
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Faculty Advisor: Dr. Ihsan Erden

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By: John Sczepaniak
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Faculty Advisor: Dr. Ursula Simonis and Meden Isaac

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By: Judy Szeto, Chris Cornell, Dr. Marc Anderson, and Dr. Cliff Berkman
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Faculty Advisor: Dr. Cliff Berkman

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By: Khin Sandi Shine, Khin Oo, Mike Minton, and Kay Saw
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Faculty Advisor: Dr. Raymond Esquerra

PHOSPHORAMIDATE INHIBITOR OF PROSTATE SPECIFIC MEMBRANCE ANTIGEN
By: May Lin
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Faculty Advisor: Dr. Cliff Berkman

EFFECT OF NONENZYMATIC GLYCATION ON THE AUTO-OXIDATION KINETICS OF ADULT HUMAN HEMOGLOBIN
By: Richelle Raagas and Damon Robles
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By: Timothy Acker
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By: Eric Gregory
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Faculty Advisor: Dr. William Hsu

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Faculty Advisor: Dr. Kaz Okada

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By: Trevor Blackstone
Computer Science
Faculty Advisor: Dr. Javier Arsuaga

SFSU HUMAN POWERED VEHICLE
By: Alex Polonsky, Jorge Corona, Daniella Dragon, Kevin Morgan, Anthony Truong,Yousef Golsorkhi, Jay Coquilla, and Jose Coto
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By: Anton Suryana, Karen Chan, Michael Solivan, and Ricardo Marangco
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DIGITAL IC DESIGN FLOW
By: Babak A. Sar Ashki
Computer Engineering
Faculty Advisor: Dr. Hamid Mahmoodi

DESIGN OF COMPETITIVE GO-KART FRAME
By: Blake Boyer, Waylan Choy, Sean Estill, and Adrian Hairrell
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SMALL-SCALE WIND TURBINE
By: David Kang, Shadow Moyer, Mark Ritchie, and Matt Suidan
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STIRLING ENGINE
By: Donald Best III and Steven Gong
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AUTOMATIC VIOLIN TUNER
By: Edward Mazmanian, Luis Eguizabal, and Juan Carlos Alfaro
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CONTINUOUSLY VARYING TRANSMISSION (CVT) PROTOTYPE
By: Eric Placido, Edward Dizon, Joseph Flores, and Willis Wong
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FUEL GUARD
By: Gaunt Murdock, James Bottomley , Donald Best III, Estuardo Ramirez, and Conmin Cheng
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ANIMAL: THE MIDI CONTROLLED PNEUMATIC DRUMMER
By: Gong Ye Chen, Anthony Freggiaro, Sang Chul Lee, and Alex Rivera

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By: Guy Halperin, Quint Herrmann, Haislip Hayes, Adrian Gotauco, Jeff Quock, Jeremy McGee, David Hungerford, Wendy Zambrano, and Azin Zarei
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SFSU-LAKE MERCED WOOD BRIDGE
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VIC: VOICE INPUT CAR
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LAKE MERCED WATER TREATMENT FACILITY DESIGN
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Faculty Advisor: Dr. Elahe Ensanni

MINI-MILLING MACHINE
By: Rodolfo Bustos, Henry Jones, Jimmy Xia, Randy Yoshimura, and Greg Zuber
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THE POWER SHOE
By: Said Abdelwafi, Prabhjot Kaur, and Aldo Bacuzzi
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Faculty Advisor: Dr. Hamid Shahnasser and Dr. Hamid Mahmoodi

MICROMOUSE
By: Sampson Ho, Chi Lin, and Chi kin Ho
Electrical Engineering
Faculty Advisor: Dr. Hamid Shahnasser

GPS/INU GUIDED AUTONOMOUS VEHICLE
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FLASH CANNON
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Mechanical Engineering
Faculty Advisor: Michael Strange

HIGH RISE FOUNDATION DESIGN
By: Warfa Aden, Christopher McAllister, and Awni Taha
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Faculty Advisor: Dr. Timothy D'Orazio

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By: Jonathan Perkins
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Faculty Advisor: Dr. Leonard Sklar

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By: Skye Corbett
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Faculty Advisor: Dr. Leonard Sklar

MOVEMENT OF LATTICE KNOTS AND DNA
By: Andrew Herrmann and Nicholas Normandin
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Faculty Advisor: Dr. Mariel Vasquez

AVERAGE WRITHE OF POLYGONS IN THE SIMPLE CUBIC LATTICE
By: Juliet Portillo
Mathematics
Faculty Advisor: Dr. Mariel Vazquez

GUIDING LIGHT: IN PERIODIC STRUCTURES
By: Daniel Shuldman and Simon Huang
Physics
Faculty Advisor: Dr. Zhigang Chen

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