

SPS 2014 updated on Sat May 3, 8:30 pm; sorted by Graduate/Undergraduate; then by Department; then by Major within the Department

Project name	Team Members	Major Concentration	Advisor	G/U
Polymorphisms and selection on the apical membrane antigen-1 (ama-1) of the avian malaria parasite <i>P. lucens</i>	Elvin Lauron	Cell & Molecular Biology	Dr. Ravinder Sehgal	Graduate
Microtubule Activity in Mitotic Endoplasmic Reticulum Reorganization	Brittany Johnson and Dr. Blake Riggs	Cell & Molecular Biology	Dr. Blake Riggs	Graduate
Putative protamines, SPCH-1/2/3 play a role in fertility	Jennifer Gilbert, Dana Byrd, Jordan Berry, Vanessa Cota, and Diana Chu	Cell & Molecular Biology	Dr. Diana Chu	Graduate
Red-headed Stepchildren of the Eukaryotic Genome - The Origin and Evolution of the Minor Spliceosomal Introns	Graham Larue, Andy Madrid, and Dr. Scott Roy	Cell & Molecular Biology	Dr. Scott Roy	Graduate
Comparative genomics sheds light on the mystery of trans-splicing	Cameron Soulette and Oliver Oliverio	Cell & Molecular Biology	Dr. Scott Roy	Graduate
Characterization of DNA replication checkpoint toxicity in <i>Schizosaccharomyces pombe</i>	Gary M. Guerrero and Dr. Sally G. Pasion	Cell & Molecular Biology	Dr. Sally G. Pasion	Graduate
Characterizing the role of SDF-1 $\alpha$ signaling during <i>Xenopus laevis</i> muscle development	Ceazar E. Nave, Armbien Sabillo, and Dr. Carmen Domingo	Cell & Molecular Biology	Dr. Carmen Domingo	Graduate
Investigating Novice and Expert Conceptions of Genetically Modified Organisms	Lisa Turk and Dr. Kimberly Tanner	Ecology & Systematic Biology	Dr. Kimberly Tanner	Graduate
Opisthobranch populations inside and outside California's marine protected areas	Victoria Kentner	Ecology & Systematic Biology	Dr. Terry Gosliner	Graduate
Marasmius of São Tomé or Príncipe	Chris L. Grace	Ecology & Systematic Biology	Dr. Dennis Desjardin	Graduate

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	EFFECTS OF OCEAN WARMING AND ACIDIFICATION ON THE EARLY DEVELOPMENT OF AN ANTARCTIC FISH, <i>GYMNODRACO ACUTICEPS</i>	Erin Flynn and Dr. Anne Todgham (SFSU/UC Davis)	Ecology & Systematic Biology	Dr. Anne Todgham	Graduate
	Life under the trees: Investigating the role of the environment in shaping patterns of diversity in the forest understory	Kimberly Drewiske	Ecology & Systematic Biology	Dr. Tom Parker	Graduate
	Development of a tool to investigate instructor and student perceptions of community college biology classrooms.	Stephanie Malmgren and Dr. Kimberly Tanner	Marine Biology	Dr. Kimberly Tanner	Graduate
	Effects of thermal stress during emersion and immersion on the heat-shock protein 70 response of an intertidal limpet	Madeline Kinsey, Brittany Bjelde and Dr. Anne Todgham	Marine Biology	Dr. Anne Todgham	Graduate
	Investigating Undergraduate Biology Majors' Performance on the Biology Card Sorting Task	Elijah Combs and Dr. Kimberly Tanner	Microbiology	Dr. Kimberly Tanner	Graduate
	BIOL446: The CRISPR/Cas Adaptive Immune System of <i>Thermomicrobium</i> sp. HL1	Sean King and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Graduate
	Enzymatic nitrite production from hydroxylamine by a thermophilic archaeal ammonia oxidizer	Donne Estipona, Dr. Robert Yen, and Dr. José R. de la Torre	Microbiology	Dr. Jose de la Torre	Graduate
	Determining The Reasons Why SFSU Students Decide To Change Their Majors From Biology	Hibba Ashraf and Dr. Kimberly Tanner	Physiology & Behavioral Biology	Dr. Kimberly Tanner	Graduate
	GROWTH AND PHYSIOLOGICAL RESPONSE OF JUVENILE TIDEWATER GOBY TO INTERSPECIFIC COMPETITION	Daniel Chase and Dr. Anne Todgham	Physiology & Behavioral Biology	Dr. Anne Todgham	Graduate

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	Characterizing the Role of Muscle Satellite Cells in Fracture Repair	Jaselle Perry, Frank Yang (UCSF), and Dr. Ralph Marcucio (UCSF)	Stem Cell Science	Dr. Lily Chen and Dr. Carmen Domingo	Graduate
	Improving the Isolation of Non-O157 Shiga Toxin-Producing <i>Escherichia coli</i> Using a Modified Washed Blood Agar	Ninalynn Daquigan, Peng Zhang (California Dept. of Public Health), and David Kiang (California Dept. of Public Health)	Stem Cell Science	Dr. Lily Chen	Graduate
	CD13-Positive Selection of Human Adipose-Derived Stromal Cells can Enhance Bone Formation	Christopher Duldulao	Stem Cell Science	Dr. Lily Chen and Dr. Michael Longaker	Graduate
	Regulation of Brain Rejuvenation by Creb Signaling	Kristopher Plambeck	Stem Cell Science	Dr. Saul Villeda and Dr. Carmen Domingo	Graduate
	Exploring Class III HDAC inhibitors from marine-sediment derived actinobacteria	Hana Martucci	Biochemistry	Dr. Taro Amagata	Graduate
	Pspace: interactive visualization and exploration of protein structure space	Daniel Asarnow	Biochemistry	Dr. Rahul Singh (CS)	Graduate
	Engineering New Substrate Specificity into the Active Site of Styrene Monooxygenases	Phu Truong and Dr. George T. Gassner	Biochemistry	Dr. George T. Gassner	Graduate
	Hydrothermal Synthesis of Titanium Dioxide Thin Films Exhibiting Preferred <001> Orientation on Fluorine-Doped Tin Oxide for Dye-Sensitized Solar Cell Applications	Peter F. Slattery	Chemistry	Dr. Andrew S. Ichimura	Graduate
	NMR Analysis of TiF <sub>4</sub> solutions	Domanick Contreras	Chemistry		Graduate
GP	Visible Light Absorption by Nitrogen Doped Titanium Dioxide Films with {001} Facets for Photocatalysis	Mana Moarrefzadeh	Chemistry	Dr. Andrew S. Ichimura	Graduate

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	Analysis of Accuracy of Queuing Models	Ping Xiao and Dr. Jozo Dujmovic	Computer Science	Dr. Jozo Dujmovic	Graduate
	LSP Suitability Map Based on ArcGIS	Yufei Zhuang and Dr. Jozo Dujmovic	Computer Science	Dr. Jozo Dujmovic	Graduate
	City-to-City: Real-Time Animation and Sonification of Web Traffic	Lee Periolat, Professor Paula Levine, and Dr. Bill Hsu	Computer Science	Professor Paula Levine and Dr. Bill Hsu	Graduate
	Microenvironment-based Protein Function Analysis by Random Forest	Lorenzo Flores, Kazunori Okada, Mike Wong, Dr. Dragutin Petkovic, and Kazunori Okada	Computer Science	Dr. Dragutin Petkovic and Dr. Kazunori Okada	Graduate
	SETAP: Software Engineering Teamwork Assessment and Prediction Using Machine Learning	Swati Arora, Kazunori Okada, Dr. Dragutin Petkovic, and Marc Sosnick-Perez	Computer Science	Dr. Dragutin Petkovic and Marc Sosnick-Perez	Graduate
	Smart-Read: Creating new services by assessing e-book user activities	Selman Kahy, Ilmi Yoon, and Anagha Kulkarni	Computer Science	Dr. Ilmi Yoon and Anagha Kulkarni	Graduate
	L1 normalized graphical models of residue interaction networks for engineered proteins	Trevor Gokey	Computing for Life Science	Dr. Anton Guliaev	Graduate
	P-T-t-d History of the Greater Himalayan Sequence in the Zaskar Shear Zone, NW India	Emma Beck	Geology	Dr. Mary Leech	Graduate
	The Tectonometamorphic Evolution of the Greater Himalayan Sequence along the Zaskar Shear Zone, NW India	Seniha Ozum Basta, Theodore D. Burlick, Emma N. Beck, and Dr. Mary L. Leech	Geology	Dr. Mary L. Leech	Graduate

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	Productivity Along the California Margin Through the Last 5 Million Years	Valerie Schwartz and Dr. Petra Dekens	Geosciences	Dr. Petra Dekens	Graduate
	Advantages of NDN data naming over TCP/IP for V2V communications	Madura Balasubramanian and Dr. Hamid Shahnasser	Electrical Engineering	Dr. Hamid Shahnasser	Graduate
	Low-Power Comparator Circuit for Switch Based Wireless Power Transfer in Implants	Casey Hardy and Dr. Hao Jiang	Electrical Engineering	Dr. Hao Jiang	Graduate
	Miniaturized RFID Tag for Biomedical Implants	Shi Jie Chen and Lok Kee Loh	Electrical Engineering	Dr. Hao Jiang	Graduate
	MEETING CHALLENGES OF LTE ADVANCED THROUGH SMALL CELL DEPLOYMENT	Juhi Bagaria	Embedded Electrical & Computer Systems	Dr. Hamid Shanasser	Graduate
	An Ultralow-input-voltage RF to DC Boost Converter for Wireless Powered Biomedical Implants	Kang J. Bai	Embedded Electrical & Computer Systems	Dr. Hao Jiang	Graduate
	Analog Integrate-and-Fire Circuit for Neuromorphic Systems	Weijie Zhu and John Laberinto	Embedded Electrical & Computer Systems	Dr. Hao Jiang	Graduate
	Embedded Wireless Sensor Network For Environment Monitoring	Vinay B. Raghavan	Embedded Electrical & Computer Systems	Dr. Hamid Shahnasser	Graduate
	Wirelessly controlling a M3Pi robot using sensors in a STM32F3 Discovery board	Pinku Xavier	Embedded Electrical & Computer Systems	Dr. Hamid Shahnasser	Graduate
	Evaluating Effects of Actuator Delay in Real-Time Hybrid Simulation Involving Strength and Stiffness Degradation	Hezareigh Ryan	Structural/Earthquake Engineering	Dr. Cheng Chen	Graduate
	Heavy Rail Retrofit: Prioritizing Post-Earthquake Strategies for Network Restoration	Brenton Smith	Structural/Earthquake Engineering	Dr. Cheng Chen	Graduate

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	Application of a Very-Low-Cost Unmanned Aerial Vehicle (UAV) and Consumer Grade Camera for the Collection of Research Grade Data: Preliminary Findings.	Peter Christian, Dr. Jerry David, and Dr. Leo Blesius	Geography	Dr. Jerry David and Dr. Leo Blesius	Graduate
	A Geometric Approach to the Littlewood Conjecture	Kyla Quillin and Dr. Yitwah Cheung	Mathematics	Dr. Yitwah Cheung	Graduate
	Eulerian Numbers in Unit Cubes	Emily McCullough	Mathematics	Dr. Matthias Beck	Graduate
	Proper Colorings of Bidirected Graphs	Nina Cerutti	mathematics	Dr. Matthias Beck	Graduate
	Statistical Analysis of Glycoprotein Data in Breast Cancer Cells	Spencer Bowen	Mathematics	Dr. Alexandra Piryatinska and Dr. Leslie Timpe (Chem & Bio chem)	Graduate
	Estimating the Fractal Dimensions of Sets Arising in Dynamical Systems	Joseph Squillace	Mathematics	Dr. Yitwah Cheung	Graduate
	Triangulations of Gale Duals of Root Polytopes	Hannah Winkler	Mathematics	Dr. Federico Ardila and Dr. Matthias Beck	Graduate
	Calibration and First Images from the Refurbished Leuschner 30-inch Telescope	Adam Fries, Eileen Gonzales, Dr. Adrienne Cool, Nabeel Naqvi, and Dana Zhu	Astronomy	Dr. Adrienne Cool	Graduate
	Testing the refurbished Leuschner 30-inch telescope and its ability to detect planets around other Stars	Eileen Gonzales, Adam Fries, and Dr. Adrienne Cool	Astronomy	Dr. Adrienne Cool	Graduate
	Measuring Dark Matter in Galaxy Clusters with Weak Gravitational Lensing	Angela Berti	Astrophysics	Dr. Andisheh Mahdavi	Graduate
	Using optical tweezers to study bacterial toxicology	Chensong Zhang	Physics	Dr. Zhigang Chen	Graduate

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	Examining Measurement Invariance and Change Over Time in Parenting Behaviors Across Adolescence	Kaitlyn Fladeboe	Developmental Psychology	Dr. Jeff Cookston	Graduate
	Does Emotional Intelligence Impact Problem Behaviors Among Chinese Adolescents?	Lanie Anton, Katy Fladeboe and Dr. Jae Paik	Developmental Psychology	Dr. Jae Paik	Graduate
	Self-Compassion, Bullying, and Psychological Functioning	Susan S. Mauskopf and Dr. Jeffrey T. Cookston	Developmental Psychology	Dr. Jeffrey T. Cookston	Graduate
	External Control of the Stream of Consciousness: Stimulus-Based Effects on Unintentional Thought Sequences	Christina Merrick, Melika Farnia, Tiffany Jantz, and Dr. Ezequiel Morsella	Mind, Brain & Behavior Psychology	Dr. Ezequiel Morsella	Graduate
	Involuntary Cognitions of Positive and Negative Images: Behavioral Consequences and EEG Correlates	Sheila Pugh, Adam Fogarty, and Hyein Cho	Mind, Brain & Behavior Psychology	Dr. Mark Geisler and Dr. Ezequiel Morsella	Graduate
	One of us: how changing one's phenotype to appear more White affects racial categorization	Jordan Seliger and Jordan McDaniel	Mind, Brain & Behavior Psychology	Dr. Avi Ben-Zeev	Graduate
	Keeping your Cool in Relationship Conflicts: Emotion Regulation and the Demand-Withdraw Pattern	Hui Man Christine Chiu, Scott Ewing and Sarah Holley	Psychology	Dr. Sarah Holley	Graduate
	Theory of Mind Development in Chinese Preschool Children: A Closer Examination of False Belief and Hidden Emotion	Stephanie Chen-Wu Gluck	Psychology	Dr. Jae H. Paik	Graduate
	Individualism-Collectivism and Self-Disclosure to Ingroups and Outgroups	JiYeon Seol, Eugene Eusebio, and Dr. Seung Hee Yoo	Psychology	Dr. Seung Hee Yoo	Graduate
	Person Perception and Category Levels: How the brain processes males and females differently	William L. D. Krenzer, Kristina Pfeifer, Callan Lujan	Psychology	Dr. Avi Ben-Zeev and Dr. Mark W. Geisler	Graduate

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	Subliminal Priming of Spontaneously Experienced Memories	Lara Krisst, Allison Allen, Meredith Lanska, and Dr. Ezequiel Morsella	Psychology	Dr. Ezequiel Morsella	Graduate
	Family Structure and Context and Parent Psychological Well-being: A Daily Diary Study	Alexandria Sweet and Yookyung Lee	Psychology	Dr. Jeffrey T. Cookston	Graduate
	Do you see what I see? The role of implicit beliefs in perceiving a stereotypic versus counter stereotypic black male	Sierra P. Niblett, Eric D. Splan, Monica E. Mendoza, Patrick J. Hibberd, Michael I. King, Dr. Avi Ben-Zeev, and Dr. Mark W. Geisler	Psychology (Cognitive)	Dr. Avi Ben-Zeev and Dr. Mark W. Geisler	Graduate
	Essentially Conservative: State Conservatism Drives Politician Essentialism in the 2012 Federal Elections	Matthew Kleckner and Dr. Charlotte Tate	Psychology (Social)	Dr. Charlotte Tate	Graduate
	The role of emotional expressivity on the relationship between collectivism and social adjustment	Frank Du, Amy Tran, and Dr. Seung Hee Yoo	Psychology (Social)	Dr. Seung Hee Yoo	Graduate
	Thought stopping through sustained imagery: Involuntary subvocalizations and the sense of agency	Hyein Cho, Allison K. Allen, Christine A. Godwin, Dr. Carlos Montemayor, and Dr. Ezequiel Morsella	Psychology, Philosophy	Dr. Carlos Montemayor and Dr. Ezequiel Morsella	Graduate
DISPLA	Daily diary links among family structure, family contextual processes, and children's psychological well-being	Yookyung	Psychology (Developmental)	Jeff Cookston	Graduate



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DISPLA	BIOL446:CRISPR associated DNA: bacterial pathogenesis & the evolution of Thermomicrobium HL1	Eduardo Lujan and Dr. Jose R. de la Torre	Cell & Molecular Biology	Dr. Jose de la Torre	Undergradu
	Testing the contribution of chromosome anchoring to efficient DNA transport during sporulation in Bacillus subtilis	Tanisha Saini	Cell & Molecular Biology	Dr. Briana Burton and Dr. Frank Bayliss	Undergradu
	Does a <i>rad2Δ</i> or <i>polδ-ts1(pol3)</i> second site mutation suppress the Cds1-Cdc24 <i>cdc</i> phenotype in <i>S. pombe</i> ?	Eirish Norielle S. Sison, Gary Guerrero, and Dr. Sally G. Pasion	Cell & Molecular Biology	Dr. Sally G. Pasion	Undergradu
	Cdc24 Chromatin association and localization in replication mutant backgrounds	Eduardo Lujan, Eirish Sison, Alex Cabrera, and Dr. Sally G. Pasion	Cell & Molecular Biology	Dr. Sally G. Pasion	Undergradu
	Epothilone B and paclitaxel display synthetic lethal interactions with SAC compromised cells within the <i>D. Melanogaster</i> compound eye	Torey Jacques and Dr. Blake Riggs	Cell & Molecular Biology	Dr. Blake Riggs	Undergradu
	Decreasing B-Cell Function in Overweight Latino Children Within Normal Fasting Glucose Parameters	Monet Jimenez, Dr. Claudia Toledo-Corral (USC), and Dr. Micheal Goran	Cell & Molecular Biology	Dr. Diana Chu and Dr. Claudia Toledo-Corral (USC)	Undergradu
	BIOL446: Metabolic Pathways of Novel Prokaryote Thermomicrobium HL1	Gerid Ollison and Dr. Jose R. de la Torre	Cell & Molecular Biology	Dr. Jose de la Torre	Undergradu
	Identifying the Role of Wnt Ligands in Neural Tube Closure	Carl Grim, Christopher Pineda, Shea Feeney, Lisa Galli, and Dr. Laura Burrus	Cell & Molecular Biology	Dr. Laura Burrus	Undergradu
	Does the evolution of manzanitas from one clade follow glacial retreat? A phylogeny using a single nuclear gene locus, RPB2.	Heather Lough and Craig Reading (Grand Canyon College)	Ecology	Dr. V. Thomas Parker and Frank Cipriano	Undergradu
	Effects of Salinity Shock in <i>Leptasterias spp.</i>	Giulia C. Gargiulo	Ecology	Dr. Sarah Cohen	Undergradu

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	Possible speciation in <i>Arthroleptis</i> due to Climatic change in Sub-Saharan Africa	Gina Geiselman, Sonia Ghose, and Dr. David Blackburn	Ecology	Dr. David Blackburn	Undergraduate
	The secret of the mermaid's purse: Phylogenetic affinities within the Rajidae and the evolution of a novel reproductive strategy in skates	Kelcie Chiquillo	Marine Biology	Dr. Karen D. Crow	Undergraduate
	The Effect of Elevation Change on <i>Batrachochytrium dendrobatidis</i> (Bd) Living on <i>Pristimantis platydictylus</i>	Linett Rasmussen	Marine Biology	Dr. Vance Vredenburg	Undergraduate
	Differential Growth Rates of <i>Chlorella Sp.</i> As a function of Nitrogen Source	Maribel Albarran	Marine Biology		Undergraduate
	Structural-functional characterization of rus1 suppressors in Arabidopsis	Arthur Liu, HongYun Tong, Lisa Ly, and Dr. Zheng-Hui He	Microbiology	Dr. Zheng-Hui He	Undergraduate
	"Long Lost Twins: A Search for Gene Duplication in Thermomicrobium HL1 and Relative Species"	Andy Madrid	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: The relationship of beta-lactamase	Jia Qi Fang and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: Phylogenetic Analysis of Flagellar Assembly Proteins in <i>Thermomicrobium sp.</i> HL1	Jorreca Mangonon and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: Evolution of 1,2-Diols in Thermomicrobium Roseum and Thermomicrobium HL and How It Supports The Survival at High temperature	Ting Shen and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: Determining the Properties of Carbon Fixation in <i>Thermomicrobium HL1</i> via Comparison with <i>Thermomicrobium roseum</i>	Mary Jean Padilla and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate

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	BIOL446: Carbon monoxide metabolism in <i>Thermomicrobium</i> sp. HL1	Travis Doty and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
Display	BIOL 446: Bias in amino acid composition as a genetic factor for species divergence in the diverse <i>Chloroflexi</i> phylum	Julian Bustamante and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: Carotenoid synthesis proteins in <i>Thermomicrobium</i> sp. HL1 and its role in membrane stabilization for thermophilic spp.	Yuji Gomikawa and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: The Search for Carbon Monoxide Oxidation in <i>Thermomicrobium</i> sp. HL1	Connie Jang and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: Identifying the homologues of chemotaxis and flagellar assembly proteins in <i>Thermomicrobium</i> sp. HL1	Rachel Bhaskar and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
Display	BIOL446: The Divergence of <i>T. roseum</i> and ThHL1 from Photosynthetic Chloroflexi May Be Directly Attributed to Isoprenoid Biosynthesis Pathway Bias	Arthur Liu and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: A study of dissimilatory nitrogen metabolism in <i>Thermomicrobium</i> HL1	Samarie Hage and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: Carbon Fixation in <i>Thermomicrobium</i> HL1	Victor Luu and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: Genomic Analysis of Possible Aerobic Carbon Monoxide Metabolism in <i>Thermomicrobium</i> HL1 spp.	Rolan Ginete and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: <i>Thermomicrobium</i> sp. HL1, A Possible Carbon Monoxide Chemotroph	Stanley Lin and Dr. Jose R. de la Torre	Microbiology	Dr. Jose R. de la Torre	Undergraduate

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	BIOL446: Possible Carbon Fixation in <i>Thermomicrobium</i> sp. HL1	Christine Quach and Dr. Jose De La Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: CONSERVATION OF PYRUVATE DEHYDROGENASE COMPLEX IN CHLOROFLEXI PHYLUM	Xuan Trang Luu and Dr. Jose De La Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: Flagellar Proteins in Nonmotile <i>Thermomicrobium</i> HL1	Eric Lee	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: Comparison of Genes Encode for Flagellar Assembly of <i>Thermomicrobium roseum</i> and <i>HL1</i>	Ellen Lin and Dr. José R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	Factors regulating EPS-I production confer a competitive advantage during symbiosis between <i>Sinorhizobium meliloti</i> and alfalfa	Julian Bustamante and Dr. Joseph Chen	Microbiology	Dr. Joseph Chen	Undergraduate
	BIOL446: You are what you eat: Formate metabolism in <i>Thermomicrobia</i>	Curtis Halpin and Dr. José R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	Talk Matters: An Analysis of Explicit Instructor Talk in a Large Introductory Biology Course	Amanda Reggi, Shannon Seidel, Jeff Schinske, Dr. Laura Burrus, and Dr. Kimberly Tanner	Microbiology	Dr. Kimberly Tanner	Undergraduate
	BIOL446: <u>How Does <i>Thermomicrobium</i> sp. HL1 Move?</u>	Ryan Wicorek and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: Reconstruction of the divisome complex in <i>Thermomicrobium</i> spec. HL1 with comparative genomic studies of THL1, its closest relatives and <i>E.coli</i> .	Julia Philipp and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate

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	BIOL446: In wine there is wisdom, in beer there is freedom, in water there is <i>Thermomicrobium</i> HL1: A study of CO and H <sub>2</sub> utilization	Amanda Gomez and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	BIOL446: <i>Thermomicrobium</i> sp. HL1 Uses an Alternative Pathway: Combining L-valine and Spermidine/Spermine Metabolism to Synthesize Coenzyme A	Austin Spencer Lee and Dr. Jose R. de la Torre	Microbiology	Dr. Jose R. de la Torre	Undergraduate
	BIOL446: Comparative genomic analysis of septation process in <i>Thermomicrobium</i> HL1	Anita Setiawan and Dr. Jose R. de la Torre	Microbiology	Dr. Jose de la Torre	Undergraduate
	Selective Deficits in Social behavior in Adult Mice after Traumatic Brain Injury at Adolescence.	Pingdewinde N. Sam, Dr. Bridgette Semple (UCSF), and Dr. Linda Noble (UCSF)	Physiology & Behavioral Biology	Dr. Linda Noble	Undergraduate
	Are there misconceptions in the Coronary systems role in heart attacks? A novel approach to demonstrate the anatomy of a heart attack	Eryk Hakman	Physiology & Behavioral Biology	Dr. Gloria Nusse	Undergraduate
	Creating a comparative map of the facial nerve: A cadaveric study	Ashley Jenkinson and Dr. Gloria Nusse	Physiology & Behavioral Biology	Dr. Gloria Nusse	Undergraduate
	Exposition of Müller AO classification of tibial fractures using cadaveric bone models	Victor Abdullatif	Physiology & Behavioral Biology	Dr. Gloria Nusse	Undergraduate
	Climate Change Expected to Increase Pathogen Invisibility in Asia	Laurence Cyril Henson	Physiology & Behavioral Biology	Dr. Vance Vredenburg and Dr. Tendai Chitwere	Undergraduate
	The ecdysteroid agonist RH 5992 reduces damage-induced developmental delays in the hornworm, <i>Manduca sexta</i>	Erica Mai, Mitchell Lopez, and Dr. Megumi Fuse	Physiology & Behavioral Biology	Dr. Megumi Fuse	Undergraduate

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WAIT L	Investigation on the Metastatic Changes to the Liver as a Consequence of Metastatic Breast Cancer, One Cadaver's Story	Christian Gallegos	Physiology & Behavioral Biology	Dr. Gloria Nusse	Undergraduate
	Understanding how the Distal Pocket Environment Affects the Ligand Binding Affinity of Nitrite to Heme Proteins	Adriana Garcia, Rocio Gomez, Sylvia Wojdyla, Bushra Bibi, Lea Lough and Raymond Esquerra.	Biochemistry	Dr. Raymond Esquerra	Undergraduate
	Nitric Oxide and its Role in Photodynamic Therapy	Marco Monroy, Pooncharas Tipgunlakant, Raymond Esquerra, and Ursula Simonis	Biochemistry	Dr. Raymond Esquerra	Undergraduate
	Elucidating the Enzyme of orotidine-5'-monophosphate decarboxylase (ODCase)	Kristen Decker and Ronald Tan	Biochemistry	Dr. Weiming Wu	Undergraduate
	Determining the role(s) of prime-side residues in macromolecular inhibition of trypsin-fold serine proteases	Commodore St. Germain and Anna Batt (USC)	Biochemistry	Dr. Teaster Baird Jr.	Undergraduate
	Combined Bilayered MFI Zeolite and Anatase TiO2 Thin Films for Degradation of Organics	Kyle Kulinski	Biochemistry	Dr. Andrew Ichimura	Undergraduate
	Disruption of interactions at prime site of Trypsin with Bovine Pancreatic Trypsin Inhibitor	Hanh Huynh	Biochemistry	Dr. Teaster Baird Jr.	Undergraduate
	Synthesis and characterization of pure silica BEA and titanosilicate BEA (Ti-BEA)	Heather-Rose Lacy	Biochemistry	Dr. Andrew Ichimura	Undergraduate
	Evaluation of Benzoic acid derivatives as Sirtuin inhibitors using an HDAC-based yeast assay	Nhu Tran, Stephanie Gee, Jeannette Bowler, Shaun Chan, Eric Suon, Dr. Weiming Wu, and Dr. Taro Amagata	Biochemistry	Dr. Weiming Wu and Dr. Taro Amagata	Undergraduate

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	Examination and Characterization of variant F41L	Weichao Zhuo	Biochemistry	Dr. Teaster Baird Jr.	Undergradu
	Conformational Dynamics of Human Alkyladenine Glycosylase by MD Simulations	Gabrielle Garcia and Dr. Anton Guliaev	Biochemistry	Dr. Anton Guliaev	Undergradu
	The role of the GTP binding for the formation of the Ras-Raf complex	Ma. Lorena Duhaylungsod and Dr. Anton Guliaev	Biochemistry	Dr. Anton Guliaev	Undergradu
	Trypsin Mutant Effects on Inhibition Resistance	Shangheng Sit	Biochemistry	Dr. Teaster Baird	Undergradu
	Can a Double Mutant in Trypsinogen's S1 Prime Pocket Affect its Reactivity in its Active Site?	Krystal Rogers	Biochemistry	Dr. Teaster Baird	Undergradu
WAIT L	Y39S: A Potential Functioning Trypsin Variant	Riley Statham and Dr. Teaster Baird	Biochemistry	Dr. Teaster Baird	Undergradu
WAIT L	Activation and Purification of Y39K Trypsin: a Variant Designed to Increase Resistance to Macromolecular Inhibitors	Camilo Javier-Alverio Bolds	Biochemistry	Dr. Teaster Baird Jr.	Undergradu
	Using Titanosilicate (TS-1) Zeolite to make Light Hydrocarbons from Water and Carbon Dioxide	Navid Singhrao and Dr. Andrew Ichimura	Biochemistry	Dr. Andrew Ichimura	Undergradu
	Adsorption Behavior of Arsenic (III) and (V) on Soil	Lucas Alameda and Yan Zhao	Biochemistry and Chemistry	Dr. Bruce Manning	Undergradu
	Visible Light Absorption of Proton Implanted [001] Oriented TiO <sub>2</sub> Films	Marissa Martinez	Chemistry	Dr. Andrew Ichimura	Undergradu
	Contrasting patterns of organic carbon accumulation in two continental margin basins revealed from depth profiles of natural <sup>14</sup> C	Ashley Grose	Chemistry	Dr. Tomoko Komada	Undergradu

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	Methane production in anoxic continental margin sediments: Insights from isotope profiles of dissolved inorganic carbon (DIC)	Abraham King Cada, Huan Lei Li, David J. Burdige and Dr. Tomoko Komada	Chemistry	Dr. Tomoko Komada	Undergraduate
	Characterizing the effect of Porcupine on neural tube closure	Shea Feeney, Lisa Galli, Gina Pay, and Dr. Laura Burrus	Biochemistry and Cell & Molecular Biology	Dr. Laura Burrus	Undergraduate
	Synthesis of Conformationally-Restricted Glutamate Bioisosteres Via a Furan Ring Scaffold	Sean Patrick Cleary, Elizabeth Mazza, and Ryan Hromyak	Biochemistry and Physiology	Dr. Jean-Louis Etoga	Undergraduate
	Efficient Synthesis of Orotic Acid Analogues for Orotidine 5' monophosphate Decarboxylase (ODCase)	Caitlin Clausen, Jeanette Bowler, Daniel Blackburn, Rania, and Dr. Weiming Wu	Biochemistry, Chemistry, and Cell & Molecular Biology	Dr. Weiming Wu	Undergraduate
	Gamification: Creating Video Games to Solve Scientific Problems	Steven Taylor Ramzel and Gary Ng	Computer Science	Dr. Ilmi Yoon	Undergraduate
		Nicu Listana	computer science		Undergraduate
	Indoor Navigation System for the Visually Impaired	Lowell Milliken, Think Nguyen, David Webster, and Alon Reich-Zilberman	Computer Science and Computer Engineering	Dr. Ilmi Yoon (CS), Dr. Arno Puder (CS), and Dr. Sunggye Hong (Special Education)	Undergraduate
Display	Detecting Climate Signals in Precipitation Records	Leia Gaten	Earth & Climate Science	Dr. Jason Gurdak	Undergraduate
	Short-Term Temperature Effects and Deposition Patterns of Anthropogenic Black Carbon Emissions in Northern California	Ryan Ford and Dr. Dave Dempsey	Geology	Dr. Dave Dempsey	Undergraduate



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	Observations of living-roof carbon, water vapor and heat exchanges using eddy covariance	Ryan Thorp, Siobhan Lavender, and Kendra Hauser	Geosciences	Dr. Andrew Oliphant	Undergradu
	San Francisco State University's Steel-Bridge (Steel-Gators)	Alan Chan, Noah Nordhoff, Ennya Garcia, Barnabas Negash, Kenneth Escobar, Robin Lopez, Kenneth Escobar and Dr. Tim D'Orazio	Civil Engineering	Dr. Tim D'Orazio	Undergradu
	Roll Up Bridge	Erasmus De Luna, Michael J. Bradley, Cristian Fernandez, Eric Agnes, Mersedeh H-Javid, Marco Cruz, Rizwan Satti, Tianlong Liu, Xiaofan Zhang, Pengjie Du, Guodong Xuan, Yang Chao, Chunfeng Xue and Yi Liu	Civil Engineering	Dr. Tim D'Orazio	Undergradu
	Concrete Canoe	Vincent Lee, Sherif Eldash, Ghazi Elayyan, Angelo Racca, and Danniell Alexander	Civil Engineering	Dr. Timonthy D'Orazio	Undergradu
	The Original Timber Bridge	Henry Williams, Robby Becker, Mike Burnfield, Wenxiang Xu, Byrong Ching, Htin Lin, and Travis Wesche	Civil Engineering	Dr. Tim D'Orazio	Undergradu

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	Reliability Assessment of Real-Time Hybrid Simulation for Time-Delayed MDOF Structures	Frank Sanchez	Civil Engineering	Dr. Cheng Chen	Undergraduate
	Concrete Canoe	Shauna Fong, Megan Anderson, Maria Aragon, Jerry Chin, Anastasia Disbrow, Gaser Elgendy, Melchor Gutierrez, Felix Wan, and Chao Xu	Civil Engineering	Dr. Tim D'Orazio	Undergraduate
	Timber Bridge Team 4	Nadia Makoor, Michelle Kwong, Charles Cao, Stephanie Azzolino, Kody Cooper, Elizabeth Dominguez, Aaron Duchi, and Shakila Mohammad Sharif	Civil Engineering	Dr. Cheng Chen	Undergraduate
	National Timber Bridge Design Competition	Kevin Rodriguez, Nadav Djiji, Sara Noii, Jerry Pichay, Abraham Reyes, Ephraim Baclagan, and Jesse Sipes	Civil Engineering	Dr. Tim D'Orazio	Undergraduate
	Robotics with Haptic Feedback	Harold Co, Nabil Hamid, and Wilson Wong	Computer Engineering	Dr. Thomas Holton	Undergraduate
	Concussion Analyzing Helmet	Brandon Boggs, Jose Gudino, Kristopher Ling, AND Dr. Thomas Holton	Electrical and Computer Engineering	Dr. Thomas Holton	Undergraduate

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	Pillars of Light	Juan Larin, Stephanie Rosales, and Hytham Abou Youssef	Electrical Engineering	Dr. Xiaorong Zhang	Undergraduate
	i.S.A.T. (Integrated Student Attendance Tracker)	Carlbert Fuyertes, Joshua Hernandez and Jessy Aquino	Electrical Engineering	Dr. Tom Holton and Dr. Barry Shiller	Undergraduate
WAIT L	RASCAL – Rail Acceleration System – Compact Augmented Launcher	Brian Gluss	Electrical Engineering	Dr. Thomas Holton	Undergraduate
WAIT L	Self-Balancing Plane	Lee-Chieh Chou, Yingzhi Lu, and An Dinh	Electrical Engineering	Dr. Thomas Holton	Undergraduate
	Semi-automatic Sushi machine	Andrew Kwan, Wan Ching Ho, and Chen Zhao	Mechanical Engineering	Dr. Kwok-Siong Teh	Undergraduate
	Pneumatic Valve Actuation System	Anthony Amador, Michael Lino, and Ivan Narvasa	Mechanical Engineering	Dr. Kwok-Siong Teh	Undergraduate
	MAVERIC: Multipurpose Aerial Vehicle with Extended Range using an Integrated Solar Circuit	Nicholas Howard, Saul Martinez, Keng Yin Aw, and Bernardo Gonzalez	Mechanical Engineering	Dr. Kwok-Siong Teh	Undergraduate
	Low RPM HATT	Rachel Rybarczyk, Shahab Azizi, and Travis Jackson	Mechanical Engineering	Dr. Kwok-Siong Teh	Undergraduate
	Hands-Free Refrigerator	Michael Lum and Ghaith Alawwad	Mechanical Engineering	Dr. Kwok-Siong Teh	Undergraduate
	Automated LabView Controlled Dip Coater for Semi Conductor Processing	Rabiah Harrison, Xinyi Xiao, and J. Welch	Mechanical Engineering	Dr. Kwok-Siong Teh	Undergraduate

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	Investigating the Urban Heat Island Effect in Black Rock City, NV During the Burning Man Festival 2013	Malori Redman	Atmospheric & Oceanic Sciences	Dr. Andrew Oliphant and Dr. Dave Dempsey	Undergraduate
	Assesing the Impact of Water Deficits on Preparedness for Climate Change in the Bay are	Michael Sanchez	Environmental Studies	Dr. Nancy Wilkinson	Undergraduate
	Comparing Restored and Remnant Dune Habitat in the San Francisco Presidio	Amy Ellevold and David Zimmerman	Environmental Studies and Natural Resource Management	Dr. Barbara Holzman	Undergraduate
	Research Design: Bay Area Lifestyle Responses to Climate Change	Sophia V. Rodriguez	Geography	Dr. Tendai Chitewere	Undergraduate
	Mapping Site-Specific Recombination in Circular DNA	Robert Stolz and Dr. Mariel Vazquez	Applied Mathematics	Dr. Mariel Vazquez	Undergraduate
	External Control of the Stream of Consciousness: Stimulus-Based Effects on Involuntary Thought Sequences	Sabrina Bhangal, Christina Merrick, Melika Farnia, Tiffany Jantz, and Dr. Ezequiel Morsella	Mind, Brain & Behavior Psychology	Dr. Ezequiel Morsella	Undergraduate
	The Association of Emotion Regulation Style and Conflict Behaviors in Relationships	Alina Belohlavek and Donish Cushing	Psychology	Dr. Sarah Holley	Undergraduate
	The Effects of Television Violence on Memory	James Sculthorp	Psychology	Dr. Margaret F. Lynch	Undergraduate
	Dental Anxiety, Dental Avoidance and Dental Drills	Victoria Paoloni	Psychology	Dr. Margaret Lynch	Undergraduate
	The Unhappy Hedonist: Exploring the Tendency to Sacrifice for Pleasure	Masha Ksendzova, Ravi Iyer, Graham Hill, and Dr. Ryan Howell	Psychology	Dr. Ryan Howell	Undergraduate
	Characteristics Fostering Effective Teamwork in Asynchronous Space Flights	Kathy Gonzalez and Dr. Kathleen Mosier	Psychology	Dr. Kathleen Mosier	Undergraduate

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	Event-related potentials (ERP's) reveal White participants reduce attention towards counter-stereotypic out-group members.	Alfredo D. Bolanos, Sierra P. Niblett, Trevor Jackson, Jocelyn Miller, Dr. Avi Ben-Zeev, and Dr. Mark Geisler	Psychology	Dr. Avi Ben-Zeev and Dr. Mark W. Geisler	Undergradu
	Jesus in the Clouds: Context and Priming Effects on the Perception of Ambiguous Stimuli	Lyndsey Wallace	Psychology	Dr. Margaret F. Lynch	Undergradu
	How Materialistic is your Subconscious? Investigating an Implicit Measure of Materialistic Desires	Patrick Kerwin, Masha Ksendzova, and Dr. Ryan Howell	Psychology	Dr. Ryan Howell	Undergradu
	Measuring Gender Bias through Helping Behavior	Le Nguyen, Carly Clapham, and Mason Marruffo	Psychology	Dr. Margaret Lynch	Undergradu
	Gender Differences in Multitasking	Rachel Gonzalez, Daniel Feeney, and Gabrielle Lectora	Psychology	Dr. Margaret Lynch	Undergradu
	How happy is your subconsciousness? Developing an implicit measure of happiness	Samuel Stark, Masha Ksendzova, and Dr. Ryan Howell	Psychology	Dr. Ryan Howell	Undergradu
	Who is More Oblivious to the Embarrassing Faux Pas of Others?	Regina Anders and Haley Rose	Psychology	Dr. Margaret Lynch	Undergradu
	Authority Perception and Gender	Rachel Hurd and Isela Garcia	Psychology	Dr. Margaret Lynch	Undergradu
Display	The Daily Behaviors and Well-Being of Grateful Individuals	Eric Nestingen	Psychology	Dr. Ryan Howell	Undergradu
		Ross Philip Crothers and Dr. Ryan T. Howell	Psychology	Dr. Ryan Howell	Undergradu
	Attitudes Towards E-Cigarettes Versus Nicotine Patches as Tools for Smoking Cessation	Vincent Miller and Joseph Moglia	Psychology	Dr. Margaret Lynch	Undergradu

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WAIT L	Creativity and Well-Being: How Your Engagement in Creative Acts Can Make You Happier	Jacqueline Diggs and Jessica Lam	Psychology	Dr. Ryan Howell	Undergradu
	Response Interference during Working Memory-Based Action Control: A New Interference Paradigm for Neuroimaging	Andrew C. Garcia, Dr. Mark W. Geisler, and Dr. Ezequiel Morsella	Psychology (Neuropsychology)	Dr. Mark W. Geisler and Dr. Ezequiel Morsella	Undergradu