

**CALIFORNIA CONSERVATION GENOMICS PROJECT (CCGP)**  
**Funded Proposals**

| <b>Project title</b>   | <b>PI</b>                       | <b>Campus</b>                 |
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| A Synthetic Analysis of Reptiles and Amphibians to inform the CCGP   | Shaffer, Brad<br>Wang, Ian      | UC Los Angeles<br>UC Berkeley |
| Banana Slug Population Genomics  | Corbett-Detig, Russell          | UC Santa Cruz                 |
| California Conservation Genomics of the Azolla symbiosis   | Rothfels, Carl                  | UC Berkeley                   |
| <i>Chrysomela aeneicollis</i> , Sierra Willow Leaf beetle  | Williams, Caroline              | UC Berkeley                   |
| Co-Evolutionary Genomics of California Pipevine Swallowtail and California Pipevine                                    | Whiteman, Noah                  | UC Berkeley                   |
| Comparative biogeography of California kelp and their major consumer   | Bay, Rachael                    | UC Davis                      |
| Comparative Genomics of the Threatened California Black Rail and Widespread Virginia Rail                              | Beissinger, Steve               | UC Berkeley                   |
| Comparative Genomics of the Three Species of <i>Fremontodendron</i> (Malvaceae)  | Potter, Daniel                  | UC Davis                      |
| Conservation and climate change genomics of California monkeyflowers with wide and restricted geographic distributions | Blackman, Benjamin              | UC Berkeley                   |
| Conservation and comparative historical genomics of endangered California vernal pool grasses                          | Meyer, Rachael<br>Sexton, Jason | UC Santa Cruz<br>UC Merced    |

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| Conservation Genetics of <i>Dicherus</i> Carabid Beetles (Golden Bear Harpalines)   | Will, Kip  | UC Berkeley                               |
| Conservation Genetics of <i>Trigonoscuta</i> Dune Weevils   | Roderick, George                                   | UC Berkeley                               |
| Conservation genomics of black-tailed deer in California  | Sacks, Ben   | UC Davis                                  |
| Conservation genomics of California bumble bees   | Shapiro, Beth<br>Williams, Neal<br>Woodard, Hollis | UC Santa Cruz<br>UC Davis<br>UC Riverside |
| Conservation Genomics of California <i>Limnanthes</i>   | Handley, Vanessa                                   | UC Berkeley                               |
| Conservation Genomics of Heavily Exploited California Fisheries Targets   | Barber, Paul                                       | UC Los Angeles                            |
| Conservation Genomics of Red Abalone  | Whitehead, Andrew                                  | UC Davis                                  |
| Conservation genomics of the bobcat in California   | Wayne, Bob   | UC Los Angeles                            |
| Conservation Genomics of the bull kelp, <i>Nereocystis luetkeana</i>  | Miller, Bob<br>Raimondi, Peter                     | UC Santa Barbara<br>UC Santa Cruz         |
| Conservation Genomics of the California Grunion, <i>Leuresthes tenuis</i> : A California icon subject to climate change impacts | Jacobs, David                                      | UC Los Angeles                            |
| Conservation Genetics of the Endangered Snowy Plover  | Bowie, Rauri                                       | UC Berkeley                               |
| Conservation Genomics of the Yuma myotis bat in California  | Wayne, Bob   | UC Los Angeles                            |

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| Conservation genomics of three species of California Scrub-Jays                                   | Wayne, Bob                         | UC Los Angeles                  |
| Conservation Genomics <i>Tetragnatha versicolor</i> & <i>T. laboriosa</i> [Long-jawed spiders]    | Gillespie, Rosemary                | UC Berkeley                     |
| Does a Most-Bizarre Looking Plant Hold the Secrets to Surviving in a Hot, Dry California?         | Zapata, Felipe                     | UC Los Angeles                  |
| Edaphic evolution and cryptic speciation in the <i>Layia glandulosa</i> species complex           | Baldwin, Bruce                     | UC Berkeley                     |
| Examining the impacts of a century of decline on genomic diversity of the Tricolored Blackbird    | Shapiro, Beth<br>Smith, Tom        | UC Santa Cruz<br>UC Los Angeles |
| From sea to summit: population genomics of threatened and alpine California butterflies           | Shaffer, Brad<br>Gillespie, Thomas | UC Los Angeles                  |
| Genetic Diversity in Six Endemic and Threatened Manzanita Species                                 | Litt, Amy                          | UC Riverside                    |
| Genetic diversity patterns of an endemic liverwort: <i>Asterella californica</i>                  | Mishler, Brent                     | UC Berkeley                     |
| Genomic characterization of the black abalone, <i>Haliotis cracherodii</i>                        | Raimondi, Peter                    | UC Santa Cruz                   |
| Genomic diversity of the manzanita gall aphid across California                                   | Nabity, Paul                       | UC Riverside                    |
| Genomic signals of local climate adaptation in Yellow Warblers                                    | Bay, Rachael<br>Smith, Tom         | UC Davis<br>UC Los Angeles      |
| Genomic structure of <i>Quercus parvula</i> and relationships within the California red oak clade | Dodd, Richard                      | UC Berkeley                     |

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| Genomics of California Coastal Dune Endemic Trapdoor Spiders  | Bond, Jason                          | UC Davis                   |
| Genomics of the California Endemic Feather Millipedes of the Genera <i>Brachycybe</i> and <i>Gosodesmus</i>   | Bond, Jason                          | UC Davis                   |
| Genomics of rubyspot damselflies in California  | Grether, Greg                        | UC Los Angeles             |
| Genomics of shoulderband snails in California   | Shaffer, Brad<br>Vendetti, Jann      | UC Los Angeles<br>NHMLA    |
| <i>Iris macrosiphon</i> : a widespread endemic California plant with considerable morphological diversity, local forms, and ecological specialization       | Wilson, Carol                        | UC Berkeley                |
| Landscape & Adaptive Genomics of an Ecologically Important Residential Intertidal Marine Fish: Woolly Sculpin ( <i>Clinocottus analis</i> )                 | Bernardi, Giacomo                    | UC Santa Cruz              |
| Landscape and conservation genomics of California native ants   | Tsutsui, Neil<br>Ward, Ward          | UC Berkeley<br>UC Davis    |
| Landscape & Environmental Genomics of an Ecologically and Recreationally Important Nearshore Marine Fish: the Black Surfperch ( <i>Embiotoca jacksoni</i> ) | Bernardi, Giacomo<br>German, Donovan | UC Santa Cruz<br>UC Irvine |
| Landscape & Environmental Genomics of Two Ecologically and Recreationally Important Nearshore Marine Fishes: Kelp Surfperch & Black Surfperch               | Bernardi, Giacomo                    | UC Santa Cruz              |
| Landscape and Population Genomics of lichen <i>Acarospora socialis</i> in California  | Stajich, Jason                       | UC Riverside               |
| Landscape genetic diversity in the California poppy, <i>Eschscholzia californica</i>  | Cleland, Elsa                        | UC San Diego               |
| Landscape Genetics, Urbanization Vulnerability, and Historical Demography of the Golden Eagle in California   | Shaffer, Brad                        | UC Los Angeles             |

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| Landscape genomic structure of California bay ( <i>Umbellularia californica</i> )  | Dodd, Richard                    | UC Berkeley                |
| Landscape Genomics for Targeted Management of Black Bear Populations   | Shapiro, Beth                    | UC Santa Cruz              |
| Landscape genomics of a California sycamore ( <i>Platanus racemosa</i> ) and black cottonwood ( <i>Populus trichocarpa</i> )         | Sork, Victoria                   | UC Los Angeles             |
| Landscape genomics of <i>Aquilegia</i> , including wide-spread, and serpentine and alpine endemic species                            | Hodges, Scott                    | UC Santa Barbara           |
| Landscape genomics of California's state fish and its close relatives: the Pacific trout   | Garza, John Carlos               | UC Santa Cruz              |
| Landscape Genomics of Mountain Pride and Toyon: Two Iconic California Species  | Prunier, Rachel                  | UC Los Angeles             |
| Landscape genomics of <i>Phyllospadix</i> species [surfgrass] along the California coast   | Hodges, Scott                    | UC Santa Barbara           |
| Landscape Genomics of Southern Sea Otters  | Garza, John Carlos               | UC Santa Cruz              |
| Landscape genomics of the Speckled Dace species complex in California.   | Shurin, Johnathan                | UC San Diego               |
| Landscape genomics of the threespine stickleback species complex in California.  | Rennison, Diana                  | UC San Diego               |
| Landscape genomics of valley oak ( <i>Quercus lobata</i> ) and island oak ( <i>Quercus tomentella</i> ): two contrasting oak species | Sork, Victoria                   | UC Los Angeles             |
| Mapping California's vertebrate genomic diversity  | Bowie, Rauri<br>Nachman, Michael | UC Berkeley<br>UC Berkeley |

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| Migratory ( <i>Selasphorus sasin sasin</i> ) and sedentary ( <i>S. s. sedentarius</i> ) Allen's hummingbirds: anthropogenic effects on a near-endemic hummingbird          | Brelsford, Alan                         | UC Riverside                          |
| One-hundred years of genomic change in a foundational California native plant: leveraging herbaria and modern collections to study contemporary effects of land use change | Sachs, Joel                             | UC Riverside                          |
| Population dynamics of spotted owls, barred owls and their hybrids   | Wall, Jeff                              | UC San Francisco                      |
| Population Genomics of hybridization and adaptation in Tui and Arroyo Chubs  | Shurin, Jonathan                        | UC San Diego                          |
| Population Genomics of threatened and endangered vernal pool crustaceans   | Barber, Paul<br>Aguilar, Andres         | UC Los Angeles<br>CSU Los Angeles     |
| Population Genomics of the Western Forest Scorpion   | Gillespie, Rosemary<br>Esposito, Lauren | UC Berkeley<br>CA Academy of Sciences |
| Population structure, landscape genomics, and adaptive genetic diversity in Townsend's big-eared bat populations in California   | Wayne, Bob                              | UC Los Angeles                        |
| Re-tracing the genomic evolution of a conservation success story, the northern elephant seal   | Beltran, Roxanne                        | UC Santa Cruz                         |
| The Genomic Consequences of Habitat Fragmentation Mountain Lions   | Shapiro, Beth<br>Wilmers, Chris         | UC Santa Cruz<br>UC Santa Cruz        |
| The genomics of California bocaccio ( <i>Sebastes paucispinis</i> ) populations: anatomy of exploitation, collapse, and recovery   | Sudmant, Peter                          | UC Berkeley                           |
| The Landscape of Genomic Diversity and Hybridization in Engelmann Oak ( <i>Quercus engelmannii</i> ) and California Scrub Oak ( <i>Q. berberidifolia</i> )                 | Sork, Victoria                          | UC Los Angeles                        |
| The landscape genomics of five manroot species, two species of California berry (thimbleberry & salmonberry), and baby blue-eyes   | Hodges, Scott                           | UC Santa Barbara                      |

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| The landscape genomics of southern and northern California walnut ( <i>Juglans californica</i> and <i>J. hindsii</i> ) and the California state lichen ( <i>Ramalina menziesii</i> ) | Sork, Victoria  | UC Los Angeles |
| The Marine Algae and Invertebrates Networks (MA&INet) Consortium   | Dawson, Michael | UC Merced      |
| The <i>Opuntia basilaris</i> complex: narrow endemics and desert icons   | Fawcett, Susan  | UC Berkeley    |
| The Tidewater Gobies - federally endangered, genetically subdivided, a model for metapopulation process and climate change response along the CA Coast                               | Jacobs, David   | UC Los Angeles |
| What arid-adapted plants can teach us about a drying California  | Zapata, Felipe  | UC Los Angeles |
| White sharks from the northeastern Pacific   | Green, Richard  | UC Santa Cruz  |