*Title:* **GENETIC CHARACTERIZATION OF WILD AND HATCHERY-PRODUCED *OSTREA LURIDA* IN PUGET SOUND, WA**  
  
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*Body:* Efforts to restore the Olympia oyster (*Ostrea lurida*) along its historic distribution in the Puget Sound, WA include population enhancement with hatchery-produced seed. Recent genotype-by-sequencing data suggest genetically distinct populations between sub-basins, and very high allelic diversity, with over 10,000 single nucleotide polymorphism (SNP) loci. In an effort to minimize genetic selection within the hatchery, current practices include collecting broodstock annually, breeding via mass spawn within genetically distinct populations, collecting brooded larvae over an extended period of time, and measuring genetic diversity. Results from 2010 and 2011 microsatellite data informed these hatchery practices. This project examines new data from 2014 and 2015 cohorts, focusing on patterns of allelic diversity between wild broodstock and the hatchery-produced F1 individuals. These results and future annual genetic testing will continue to inform hatchery practices for restoration groups and commercial aquaculture facilities that produce this native oyster.