**Genetic Stock Identification of Snake River Steelhead at Lower Granite Dam**

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Genetic stock identification (GSI) has been conducted successfully in the lower Columbia River and elsewhere throughout the Pacific Rim to estimate stock contributions in salmon and steelhead mixed fisheries. For this talk, we present the first single nucleotide polymorphism (SNP) baseline completed for ESA-listed Snake River steelhead and review the first two years of GSI results estimating abundance and diversity of adult wild steelhead stocks migrating above Lower Granite Dam. Initial results indicate that GSI methodologies using SNPs should greatly assist managers in assessing the viability of natural origin steelhead in the Snake River Basin. We also review current efforts to improve the resolution of the existing baseline and present some initial results demonstrating the potential utility of this set of SNP loci for assessing intraspecific hybridization and introgression.