

# Seeking direction on SEAK chum salmon project priorities

Alaska Department of Fish & Game  
Gene Conservation Lab



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# First possible RRF results for SEAK chum salmon: Adult-to-alevin

- Two complete generations of chum salmon adult-to-alevin samples from Fish Creek.
- First sets of adult-to-alevin parentage analyses for the fitness component
- Do we prioritize these alevins over or in addition to adult-to-adult analyses?

# What has been accomplished so far

- All otoliths from adult collections from 2013 and 2014.
- Preliminary analysis of the 2013 adults to 2014 alevins was conducted with 176 unselected markers.
- Lab has screened 284 markers for parentage analysis. Will select 190 markers.
- 2013 adults and 2014 alevins have been genotyped.

# What is outstanding

- 2013/2014 adults-to-alevins have limited statistical power
- 2014 potential parents (2,622 adults)
- 2015 potential offspring (2,010 alevin)

# Cost and timeline for completion

- \$148K
- If given the go-ahead:
  - Analysis would begin January, 2017 and report would be completed October, 2017