Chum salmon (*Oncorhynchus keta*)

A decrease in extracellular $K^+([K^+]_{ex})$ causes motility initiation.

**Glycerol treatment**

After treatment sperm with 10% (V/V) glycerol, sperm show motility initiation in the presence of large amount of $[K^+]_{ex}$!!

Phosphorylation of dynein light chain and 18 kDa protein that is associated with motility initiation (e.g., Morisawa 1985) occurs in glycerol treated sperm.

Glycerol treatment affect signal cascades for motility initiation in salmonid fish.