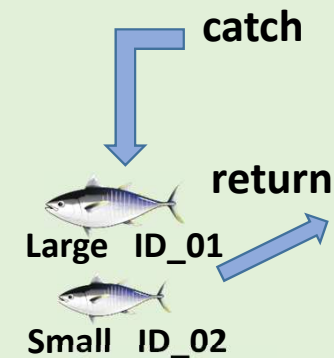


Challenge for The Tracing The Growth of Kindai Tuna Juvenile to Adult. (Lecturer. Yasuo AGAWA, agawa@kindai.ac.jp)

Research Area

1. Collecting mucus cells from tuna juveniles.
2. Individual identification by DNA fingerprinting.



Monitoring the tuna growth, whether large juveniles keep Growth or not. It is the first trial in the world !!!

3 years later, harvest the tuna. Collecting DNA from fin.



Extracting DNA from the specimen.

Whole genome amplification then dd-RAD-Seq analysis of juveniles.

ID locus1, locus2,
L. ID_01 TGGC, ATTG,
S. ID_02 TGAC, ATAG,
DNA Finger printing between juveniles and adults.

ID locus1, locus2,
L. ID_01 TGGC, ATTG,
M. TGGC, ATAG,
S. ID_02 TGAC, ATAG,
dd-RAD-seq analysis of adults.

- Identification of male sex-linked DNA sequence of the cultured Pacific bluefin tuna *Thunnus orientalis*. Fisheries Science (81): 113-121, 2015
- Identification of growth-related nucleotide polymorphism in cultured Pacific bluefin tuna, *Thunnus orientalis*. Aquaculture Research 7(48): 3320-3328, 2017

Recent Activities