

# Genetic connectivity between Atlantic bluefin tuna (ABFT) Larvae Spawned in the GOM and MED

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## What?

Highly migratory ABFT is managed as two stocks, Western and Eastern. Western ABFT spawn mainly in the Gulf of Mexico (GOM) and Eastern ABFT in the Mediterranean Sea (MED).



## Why?

Understanding connectivity between ABFT populations for conservation and fisheries management.

In press 

## How?

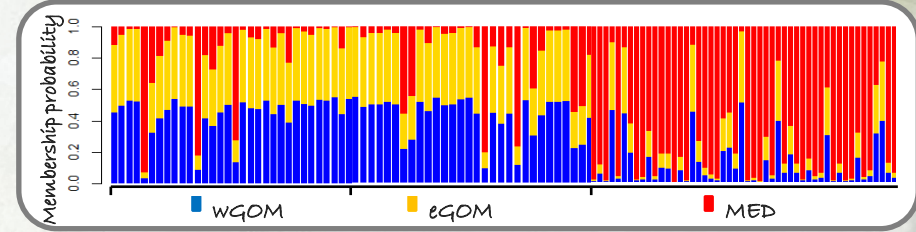
## What's up?

Genetic Marker	ABFT Stock		Fixation index <sup>2</sup>
	Western Atlantic	Eastern Atlantic	
mtDNA sequence	GOM	MED	0.029*
	Larvae (22)	Larvae (21)	
Microsatellite loci <sup>1</sup>	GOM	MED	0.010**
	Larvae (62)	Larvae (50)	
	wGOM	MED	0.011*
	Larvae (30)	Larvae (50)	
wGOM	MED	0.012**	
Larvae (32)	Larvae (50)		



<sup>1</sup>Loci Tth208, Tth1-31, Tth07, Tth34, Tth04, Tth157.

<sup>2</sup>Significant probability \*p<0.05, \*\*p<0.01



## In a

Genetic diversity exclusively from larvae of known origin. Connectivity between MED and eGOM ABFT breeders, stronger than MED and wGOM.

