

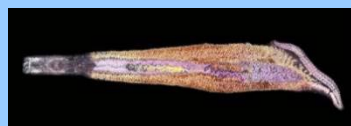
Parasites of Samson fish (*Seriola hippos*)



Name: *Benedenia seriolae*, flatworm parasites commonly called 'skin fluke'
Microhabitat: Live on the surface of the fish and feed on skin cells
Appearance: Transparent when alive, but turn white when they die (scale = 1mm)
Pathology: Heavy infections cause irritability, anorexia and mortality in *Seriola* aquaculture
Curiosity: Their circular attachment organ acts like a suction cap so they stick on the fish!



Name: *Caligus* spp., copepod crustaceans commonly called 'sea-lice' or 'skin crawlers'
Microhabitat: Live on the surface of the fish including the skin and gills
Appearance: Often with elongate paired eggs strings, scuttling around on the fish skin
Pathology: Can cause irritation and anaemia in heavy infections
Curiosity: Samson fish tend to get a lot of caligid on their skin and they can be easily seen in photos in fishing magazines!



Name: *Zeuxapta seriolae*, flatworm parasites commonly called 'gill fluke'
Microhabitat: Live on the gills and feed on blood
Appearance: Brown, thin worms that look like blobs on gills when not immersed in water
Pathology: Infections in *Seriola* farms can cause emaciation, lethargy and lethal anaemia
Curiosity: You find out how old they are by counting the clamps on the attachment organ!



Name: *Paradeontacylix* spp., digenean flukes commonly called 'blood fluke'
Microhabitat: Live in the circulatory system, including the heart and gills
Appearance: Adult worms are ~3mm long, eggs can cause white lesions in the gills
Pathology: Eggs in the gills can impede blood flow, mass mortality in *Seriola* farms
Curiosity: Samson fish are infected by multiple species of blood fluke



Photo kindly supplied by C. Whipps

Name: *Kudoa* sp. are myxosporeans, which can cause 'milky flesh' or 'soft flesh'
Microhabitat: Live in the muscle tissue
Appearance: Microscopic parasites that can only be observed under high power scopes
Pathology: In heavy infections they can cause musculature liquefaction post-harvest
Curiosity: It is thought that placing fish on ice may prevent flesh turning 'milky'
***NB:** This photo is of *Kudoa thyrssites* infection in Atlantic mackerel (*Scomber scombrus*)

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Prepared by Kate S. Hutson 2008