Parasites of kingfish (Seriola lalandi)

Parasite species with potential to cause fish pathology

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
**Pathology:** Heavy infections cause irritability, anorexia and mortality in *Seriola* aquaculture
**Cool stuff:** Their circular attachment organ acts like a suction cap so they stick on the fish!

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
**Cool stuff:** You find out how old they are by counting the clamps on the attachment organ!

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
**Cool stuff:** These guys can hang on, despite the speed and distance their host travels!

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
**Cool stuff:** These worms were recently discovered in WA, on board Shikari Charters!

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
**Cool stuff:** Put fish for eating immediately on ice and this parasite can’t do its dirty work!

Further contact:

Kate S. Hutson  
Marine Parasitology  
School of Earth & Environmental Sciences  
The University of Adelaide  
Adelaide SA 5005  
P: +61 4 8303 5282  
F: +61 4 8303 4364  
M: 0404 899 394  
E: kate.hutson@adelaide.edu.au

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