Annex 26. Item 9.3.3. – Sections 2.2.1. and 2.2.2. of Chapter 2.4.6. ‘Infection with *P. olseni*’

CHAPTER 2.4.6.  
  
infection with *PERKINSUS OLSENI*

[…]

2.2. Host factors

2.2.1. Susceptible host species

Species that fulfil the criteria for listing as susceptible to infection with *Perkinsus olseni* according to Chapter 1.5. of the *Aquatic Animal Health Code* (*Aquatic Code*) are:

| Family | Scientific name | Common name |
| --- | --- | --- |
| Arcidae | *Anadara kagoshimensis* | half-crenated ark ~~cockle~~ |
|  | *Anadara trapezia* | no common name ~~ark cockle~~ |
| Cardiidae | *Tridacna crocea* | crocus giant clam |
| Haliotidae | *Haliotis laevigata* | greenlip abalone |
|  | *Haliotis rubra* | blacklip abalone |
|  | *Haliotis iris* | black paua |
| Margaritidae | *Pinctada fucata* | Japanese pearl oyster |
| Mytilidae | *Mytilus galloprovincialis* | Mediterranean mussel |
|  | *Perna canaliculus* | New Zealand mussel |
| Veneridae | *Austrovenus stutchburyi* | Stutchbury's venus ~~clam~~ |
|  | *Leukoma jedoensis* | Jedo venus ~~clam~~ |
|  | *Paratapes undulatus* | undulate venus ~~clam~~ |
|  | *Protapes gallus* | rooster venus ~~clam~~ |
|  | *Proteopitar patagonicus* | no common name |
|  | *Ruditapes decussatus* | grooved carpet shell |
|  | *Ruditapes philippinarum* | Japanese carpet shell ~~clam~~ |

*~~Perkinsus olseni~~* ~~has an extremely wide host range. Known hosts include the clams~~ *~~Anadara trapezia~~*~~,~~ *~~Austrovenus stutchburyi~~*~~,~~ *~~Ruditapes decussatus~~*~~,~~ *~~R. philippinarum, Tridacna maxima, T. crocea, Protothaca jedoensis~~* ~~and~~ *~~Pitar rostrata~~* ~~(Cremonte~~ *~~et al.,~~* ~~2005; Goggin & Lester, 1995; Park~~ *~~et al.,~~* ~~2006; Sheppard & Phillips, 2008; Villalba~~ *~~et al.,~~* ~~2004;); oysters~~ *~~Crassostrea gigas~~*~~,~~ *~~C. ariakensis~~*~~, and~~ *~~C. sikamea~~* ~~(Villalba~~ *~~et al.,~~* ~~2004); pearl oysters~~ *~~Pinctada margaritifera, P. martensii~~*~~, and~~ *~~P. fucata~~* ~~(Goggin & Lester, 1995; Sanil~~ *~~et al.,~~* ~~2010); abalone~~ *~~Haliotis rubra, H. laevigata, H. scalaris,~~* ~~and~~ *~~H. cyclobates~~* ~~(Goggin & Lester, 1995).) Other bivalve and gastropod species might be susceptible to this parasite, especially in the known geographical range. Members of the families Arcidae, Malleidae, Isognomonidae, Chamidae and Veneridae are particularly susceptible, and their selective sampling may reveal the presence of~~ *~~P. olseni~~* ~~when only light infections occur in other families in the same habitat.~~

2.2.2. ~~Susceptible stages of the host~~ Species with incomplete evidence for susceptibility

~~All stages after settlement are susceptible.~~

Species for which there is incomplete evidence to fulfil the criteria for listing as susceptible to infection with *P. olseni* according to Chapter 1.5. of the *Aquatic Code* are:

| Family | Scientific name | Common name |
| --- | --- | --- |
| Cardiidae | *Cerastoderma edule* | common edible cockle |
| Mytilidae | *Mytilus chilensis* | Chilean mussel |
| Ostreidae | *Crassostrea gasar* | gasar cupped oyster |
|  | *Ostrea angasi* | Australian mud oyster |
| Pectinidae | *Pecten novaezelandiae* | New Zealand scallop |
| Psammobiidae | *Hiatula acuta* | no common name |
| Veneridae | *Venerupis corrugata* | corrugated venus clam |

In addition, pathogen-specific positive polymerase chain reaction (PCR) results have been reported in the following species, but no active infection has been demonstrated:

| Family | Scientific name | Common name |
| --- | --- | --- |
| Cardiidae | *Cerastoderma glaucum* | olive green cockle |
| Chamidae | *Chama pacifica* | reflexed jewel box |
| Haliotidae | *Haliotis diversicolor* | small abalone |
| Isognomonidae | *Isognomon alatus* | flat tree oyster |
|  | *Isognomon sp.* | N/A |
| Margaritidae | *Pinctada imbricata* | Atlantic pearl oyster |
| Ostreidae | *Crassostrea rhizophorae* | mangrove cupped oyster |
|  | *Dendostrea frons* | Frons oyster |
|  | *Magallana* [syn. *Crassostrea*] *gigas* | Pacific oyster |
|  | *Magallana* [syn. *Crassostrea*] *hongkongensis* | no common name |
|  | *Saccostrea sp.* | N/A |
| Pectinidae | *Mimachlamys crassicostata* | noble scallop |
| Pharidae | *Sinonovacula constricta* | constricted tagelus clam |
| Veneridae | *Meretrix lyrata* | lyrate hard clam |
|  | *Polititapes aureus* | golden carpet shell |
|  | *Venus verrucosa* | warty venus ~~clam~~ |

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