

From: Higgins, Mark
Sent: June-03-16 8:50 AM
To: Saunders, Mark
Subject: Fw: Update of PRV information for website

Mark, Kyle is the only one to respond to this request for now. Should we distribute and submit for change to web page? It sounds like the lawyers want something.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Garver, Kyle <Kyle.Garver@dfo-mpo.gc.ca>
Sent: Thursday, June 2, 2016 6:22 PM
To: Higgins, Mark
Subject: Update of PRV information for website

Mark,

I've added the paragraph:

“Utilizing laboratory studies, DFO scientists have been investigating the infectivity and disease causing potential of PRV. To date, DFO scientists have demonstrated that PRV from British Columbia can infect Sockeye salmon, Chinook salmon, and Atlantic salmon. After infection, PRV can reach high levels in the blood and is capable of being present in Chinook, Sockeye and Atlantic salmon for many months without causing disease or mortality, suggesting PRV in British Columbia is of low virulence for these species (Garver et al. 2016A and Garver et al. 2016B)”

References added:

- Garver KA, Marty GD, Cockburn SN, Richard J, Hawley LM, Müller A, et al. (2016A) Piscine reovirus, but not Jaundice Syndrome, was transmissible to Chinook Salmon, *Oncorhynchus tshawytscha* (Walbaum), Sockeye Salmon, *Oncorhynchus nerka* (Walbaum), and Atlantic Salmon, *Salmo salar* L. *Journal of Fish Diseases* 39,117-128.
- Garver KA, Johnson SC, Polinski MP, Bradshaw JC, Marty GD, Snyman HN, et al. (2016B) Piscine Orthoreovirus from Western North America Is Transmissible to Atlantic Salmon and Sockeye Salmon but Fails to Cause Heart and Skeletal Muscle Inflammation. *PLoS ONE* 11(1): e0146229. doi:10.1371/journal.pone.0146229

Also added the last sentence to the following paragraph:

“As the role of PRV in the aquatic ecosystem is not well understood, DFO scientists, along with provincial and international colleagues, are conducting investigations to better understand the biology of PRV in wild and farmed salmon on the West Coast of North America. Examples include studies assessing the association between PRV infection and spawning success of Sockeye Salmon in the Fraser River and the potential association of PRV with disease in Pacific salmon. Additionally, studies are investigating whether infection with PRV of no or low virulence would affect how a fish may respond when exposed to other naturally occurring viruses.”

-Kyle