

From: Miller-Saunders, Kristi
Sent: Friday, October 2, 2009 11:32 AM
To: Parken, Chuck <Chuck.Parken@dfo-mpo.gc.ca>
Subject: RE: Clarification Question
Attach: 2009_Fraser Sockeye Meeting_Hypotheses_KM.xls

We examined smolts in the SOG in 2008 and 2009, but we did not have smolt samples in 2007. I am checking to see if David Patterson might have some, however, because he was doing some smolt work in the river. Jeremy Hume might also have something from the lakes. In 2008, 50% of the sockeye smolts carried tumours both in the lower river and in June in SW. By Sept, fewer than 10% had tumours. The same pattern was true for Chinook and coho, and was also true for 2009. However, in 2009, the tumour incidence in sockeye has dropped to 20% in June, 0% in Sept, but we are still analysing more samples.

So, we know that 75% of adults returning to spawn in 2005 carried the viral signature (based on combined gill, liver, and brain profiles), with 30% positives in the brain alone. In 2009, we have 70% of the returning adults with tumours, but have not profiled other tissues. Hence, we estimate that infection rates must be >90%, as brain is a secondary tissue and only a portion of infected fish will actually end up with tumours.

<<...>>

Mark also asked me to add a new hypothesis line specifically about SLV to the excel spreadsheet, and this is highlighted in bold.

Thanks, and please let me know if there is anything else required.

Kristi Miller

Head, Molecular Genetics Section
Pacific Biological Station
Nanaimo, BC
phone (250) 756-7155
fax (250) 756-7053
Please Note new email address effective Jan 2008:
Kristi.Miller@dfo-mpo.gc.ca

From: Parken, Chuck
Sent: October 2, 2009 8:12 AM
To: Miller-Saunders, Kristi
Cc: Saunders, Mark (SaundersM@pac.dfo-mpo.gc.ca)
Subject: Clarification Question
Importance: High

Hi Kristi,
Just following up on my voicemail. I'm helping Mark summarize materials from our meeting on Wednesday.

Can you clarify if your group has examined juvenile sockeye (or other salmon) samples collected from the Strait of Georgia, and whether they showed signs of the viral infection. We're trying to see if the signatures that you found on the returning adults from brood year 2005 were evident when the smolts arrived in or were rearing in the SoG.

Thanks,
Chuck

DFO-359314[00-01]

\\svbcvanfp01\Cohen-Comm\Personal_Drives\Science\C
huck Parken\Email 01\ParkenCharles-email01-2010052
7\A/S Head of Salmon Assessment\Fraser Sockeye\Pin
k Assessment\

CAN220802_0001

Charles Parken
Habitat Assessment Biologist, Salmon Assessment
Salmon and Freshwater Ecosystems Division
Fisheries and Oceans Canada

Pacific Biological Station
3190 Hammond Bay Road
Nanaimo, BC V9T 6N7
Phone: (250) 756-7199
Fax: (250) 756-7053
Email: Chuck.Parken@dfo-mpo.gc.ca

\\svbcvanfp01\Cohen-Comm\Personal_Drives\Science\Ch
huck Parken\Email 01\ParkenCharles-email01-2010052
7\A/S Head of Salmon Assessment\Fraser Sockeye/Pin
k Assessment\