



# ECVP/ESVP Summer School in Veterinary Pathology



## Marie Curie Training Courses

Summer School 2005 – Fish F01/4679

Slide No. F01/4679: Tissue from a minnow

### Description of histological findings

Skeletal muscle, multifocally there are several up to 2 mm in diameter measuring granulomas consisting of clusters of mainly macrophages, few lymphocytes and a large number of melanocytes (hyperpigmentation). In the center of the granulomas are trematode parasites characterized by an outer tegument followed by a longitudinal and circular layer of smooth structureless muscle fibers, no body cavity and, on several parasites, a digestive tract and a sucker (trematode metacercariae). These parasites are surrounded by a clear space partly filled with basophilic amorphous material and an eosinophilic homogenous cyst wall, appr. 5  $\mu$ m thick.

### Morphological diagnoses

Muscle, granulomatous myositis, multifocal, moderate with hyperpigmentation and intralesional trematode metacercariae

### Etiology

Metacercariae of *Posthodiplostomum* sp.

### Disease

Black spot disease

Scoring system	Points
<u>General:</u>	
Design	1
Tissue	1
<u>Descriptive features:</u>	
Macrophages, lymphocytes	1
Melanocytes, hyperpigmentation	2
description of trematode metacercariae	
• tegument	1
• longitudinal and circular layer of muscle fibers	1
• no body cavity	1
• sucker	1
• digestive tract	1
clear space	1
basophilic material	1
cyst wall	1
<u>Morphological Diagnoses:</u>	3
<u>Etiology</u>	2
<u>Disease</u>	2