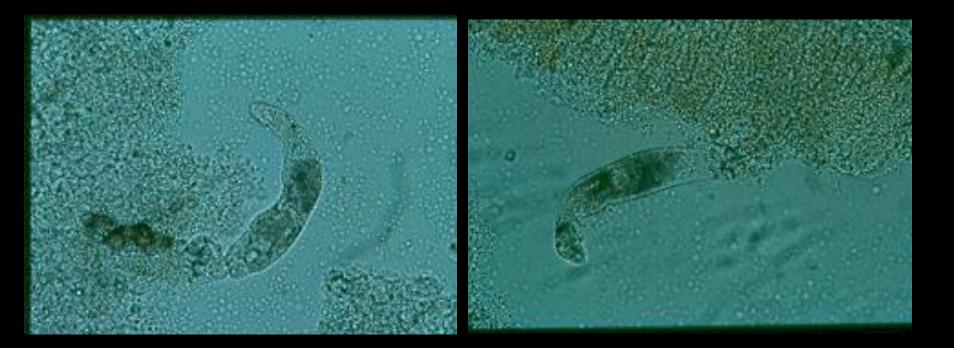
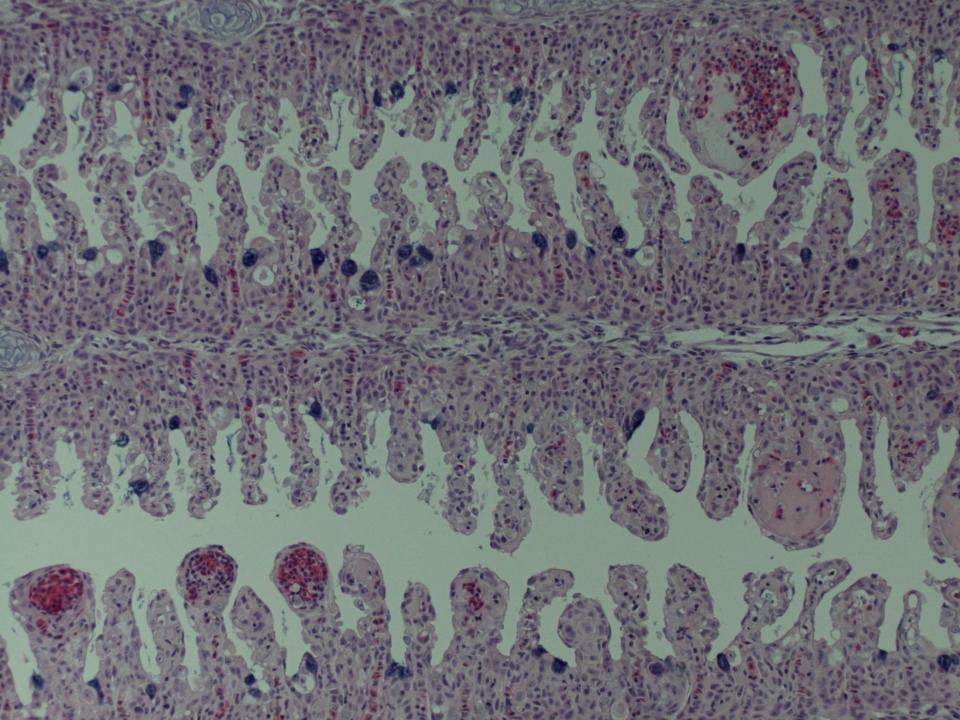


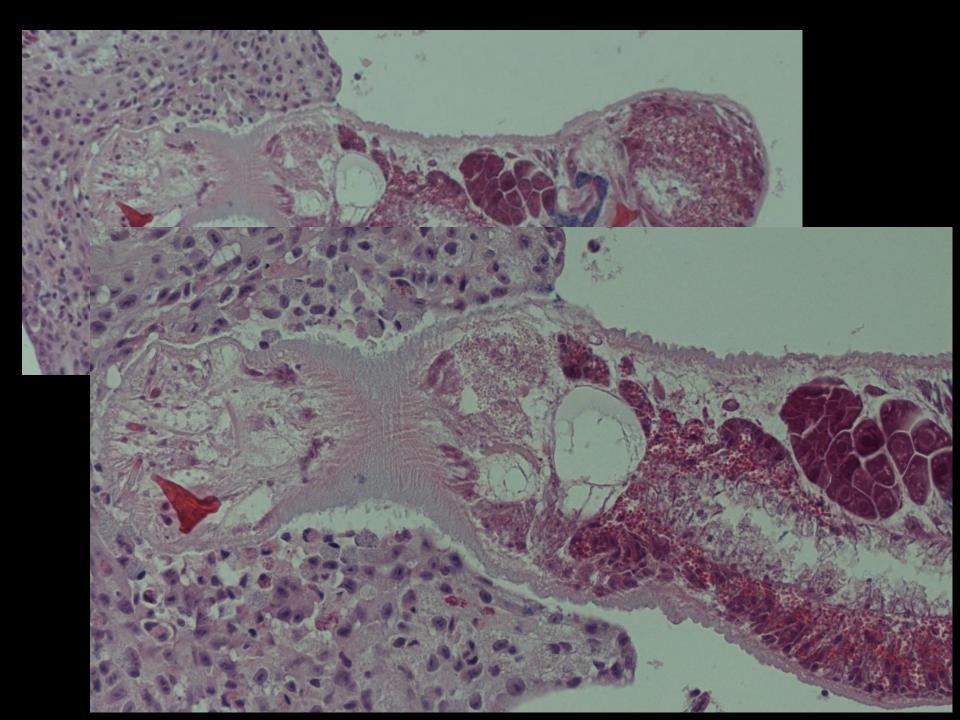


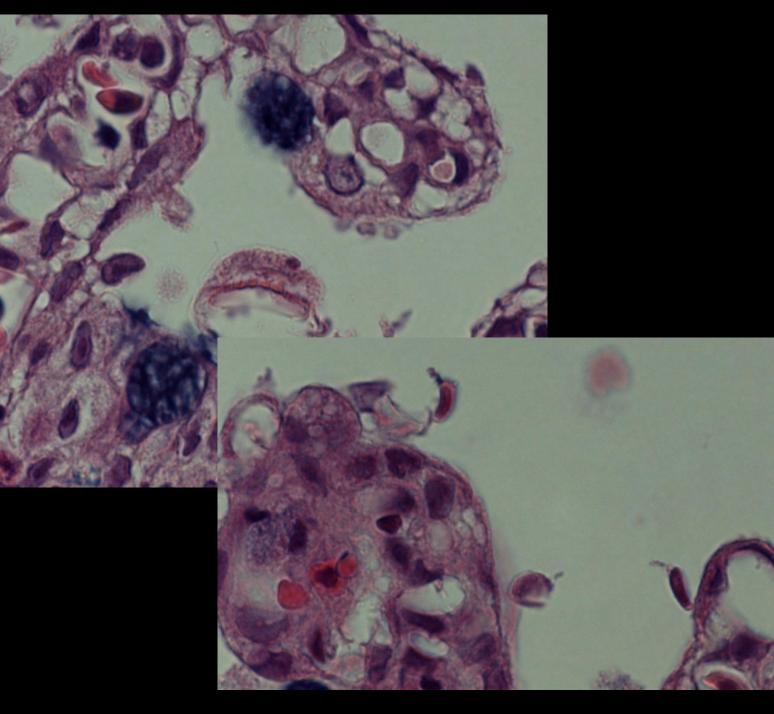
F08/1594 & F05/597

Koi, pond <u>Clinic</u>: increased respiration rate, abducted operculum <u>Organ</u>: gills











Morphological diagnosis

Gills, proliferative branchitis, diffuse, severe, chronic with intralesional trematodes, ciliates and flagellates

Etiologies

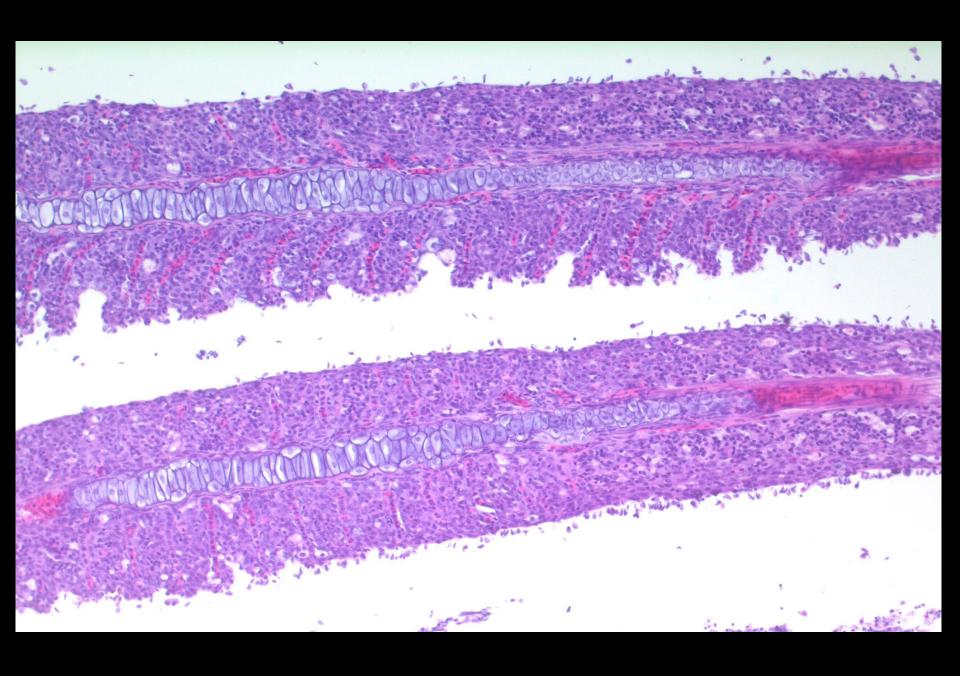
Dactylogyrus sp. Trichodina sp. Ichthyobodo sp.

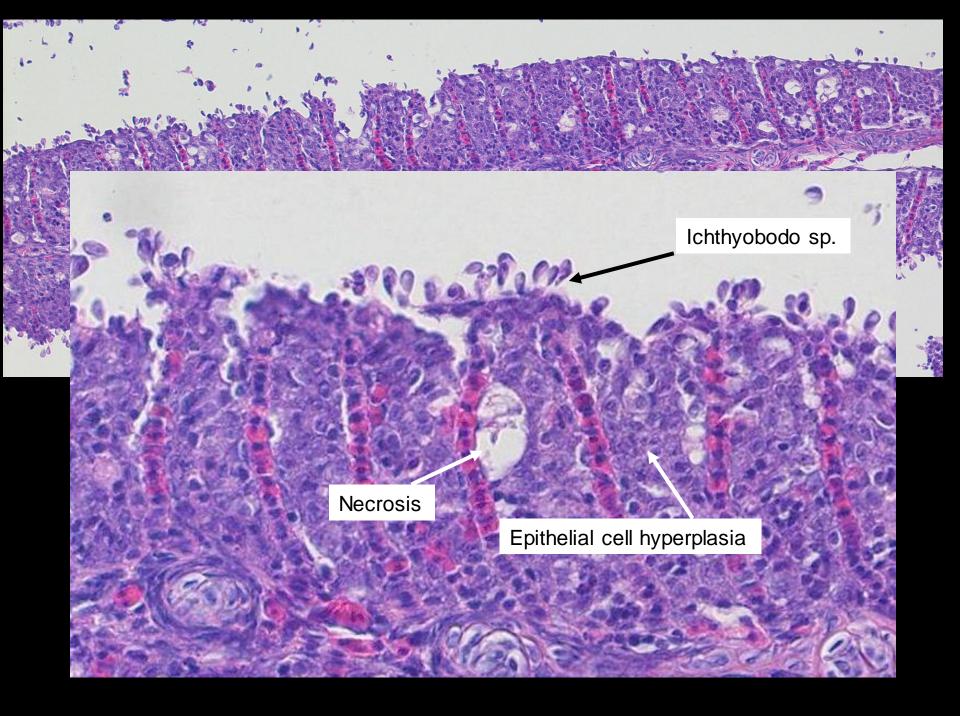
F13/7048

<u>Goldfish</u>, pond <u>Clinic</u>: increased respiration rate, increased mortality in stress situations











Morphological diagnoses

<u>Gills</u>, proliferative branchitis, diffuse, severe, chronic with flagellets

Aetiologies

Ichthyobodo sp.



R07/499 & F11/4467

Rainbow trout, fish farm

<u>Organ</u>: gills

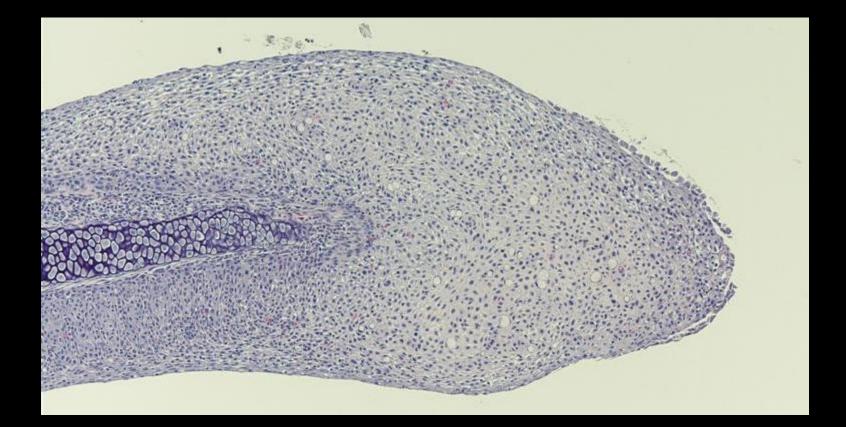
<u>Clinic</u>: increased respiration rate,

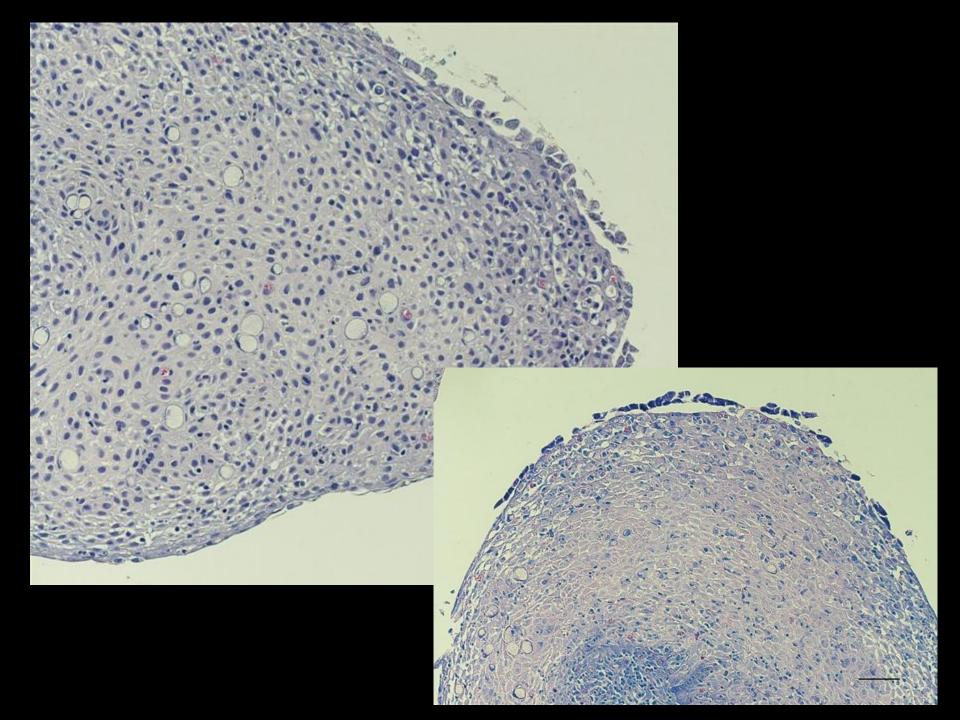
abducted operculum, mortality

Mainly in autumn

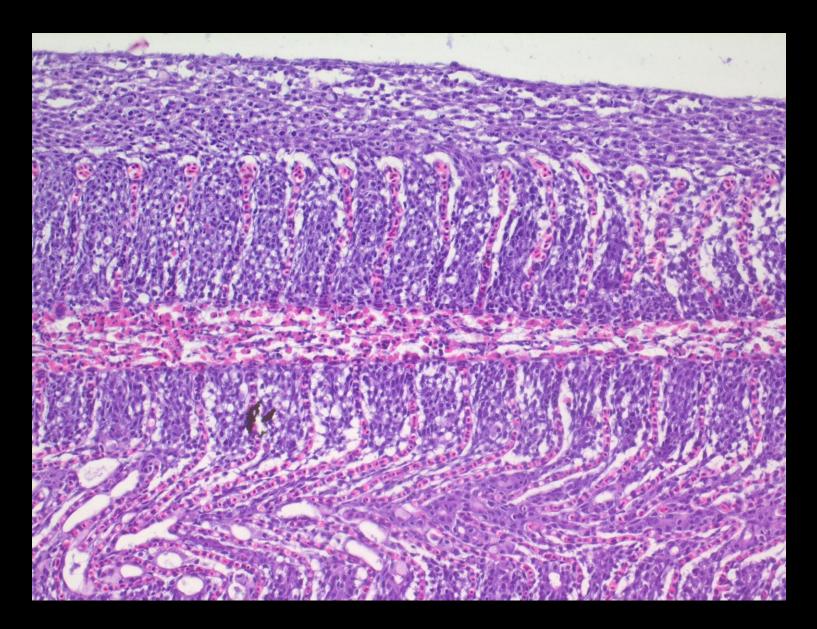


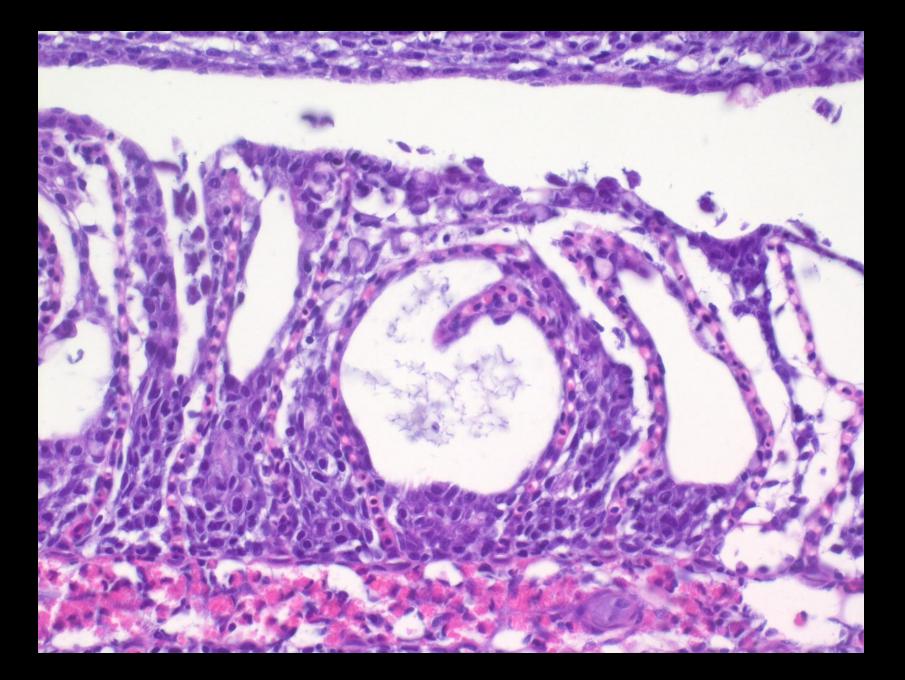


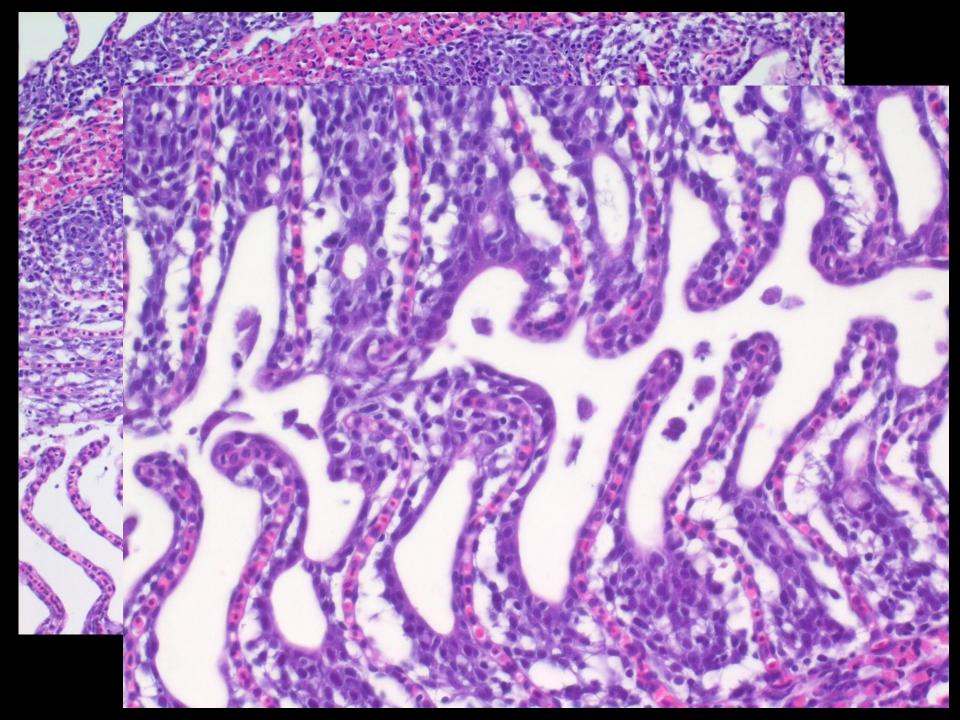




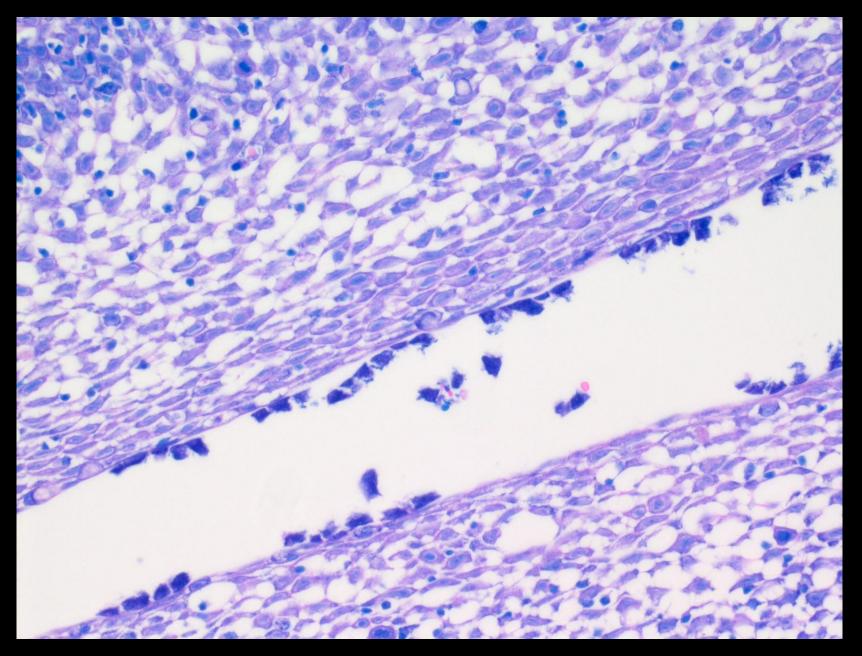
F11/4467







Giemsa-staining





Morphological diagnoses

<u>Gills</u>, proliferative branchitis, multifocal, severe, chronic with squamous cell metaplasia, amoeba (and flavobacteria)

Aetiologies

Thecamoeba sp., Cochliopodium sp. Flavobacterium branchiophilum

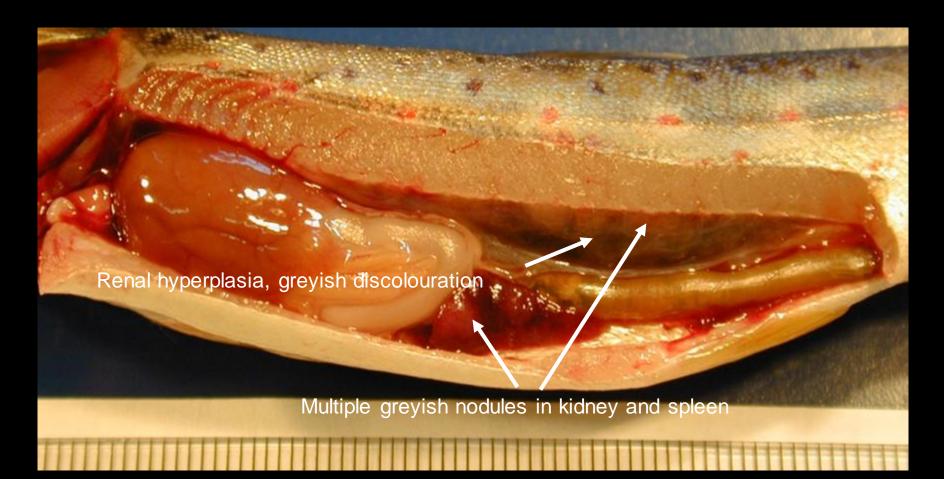
F05/3485



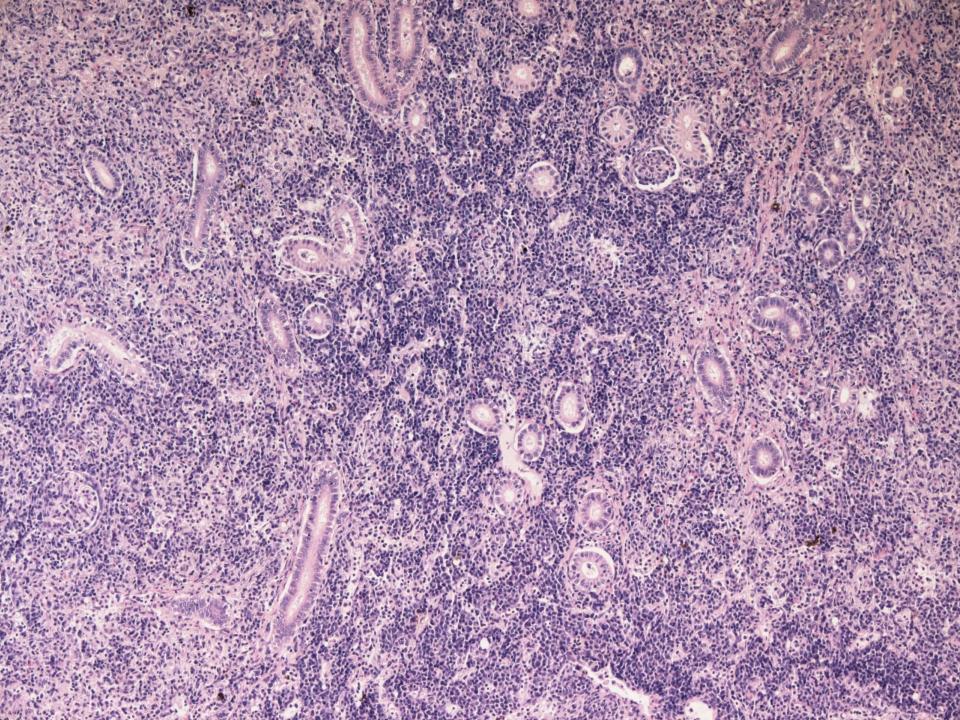
Feral brown trout

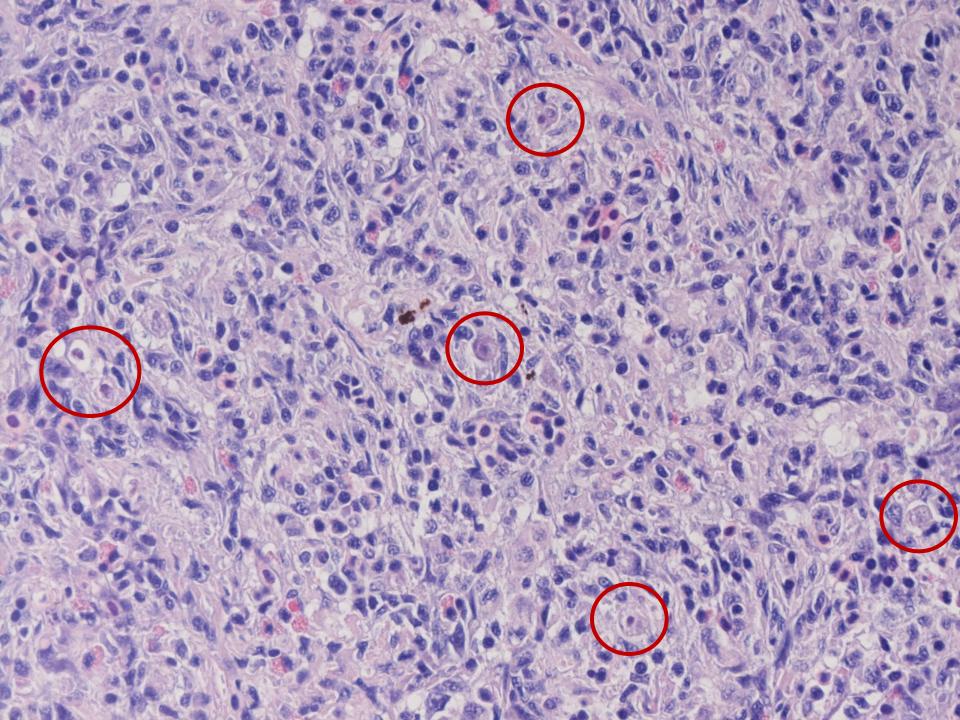
Organ: kidney

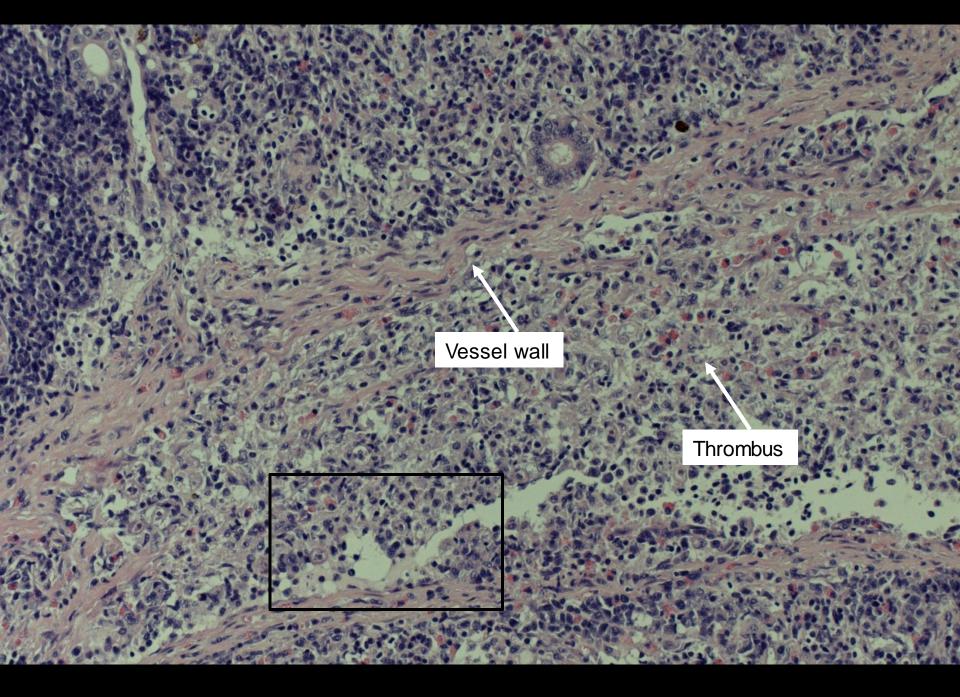
Clinic: high mortality during summer months, exophthalmia, anaemia

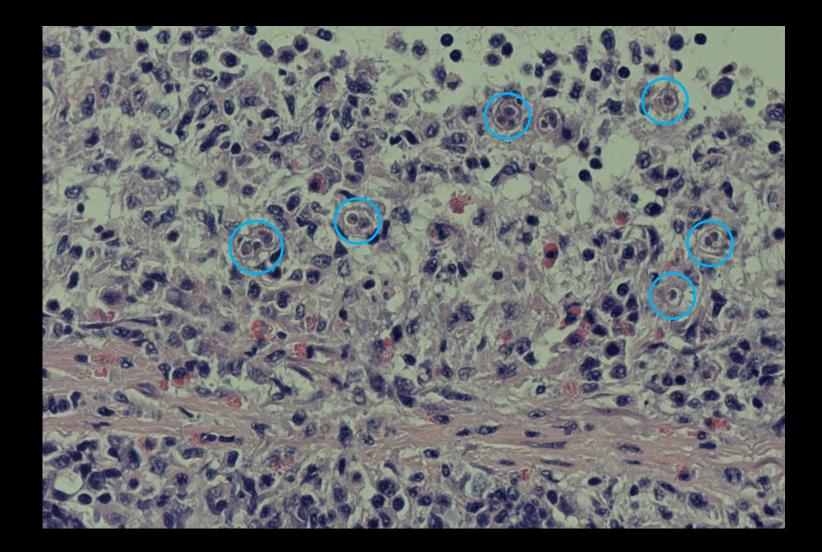




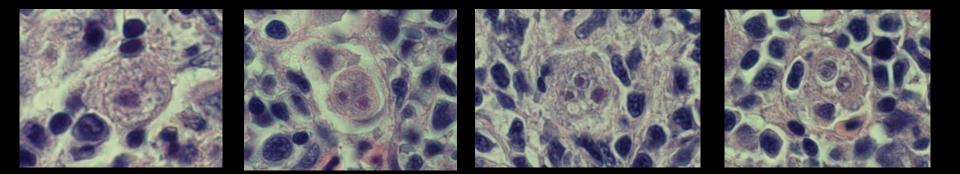




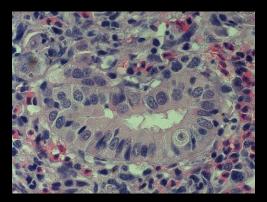


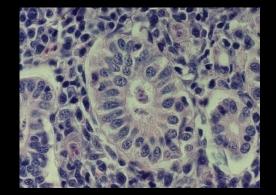


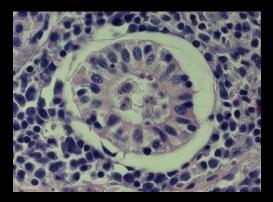
Extrasporogonic stages in renal interstitium



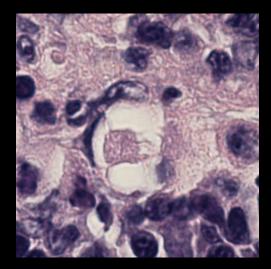
Sporogonic stages in tubular epithelial cells and lumen

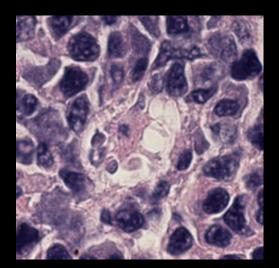




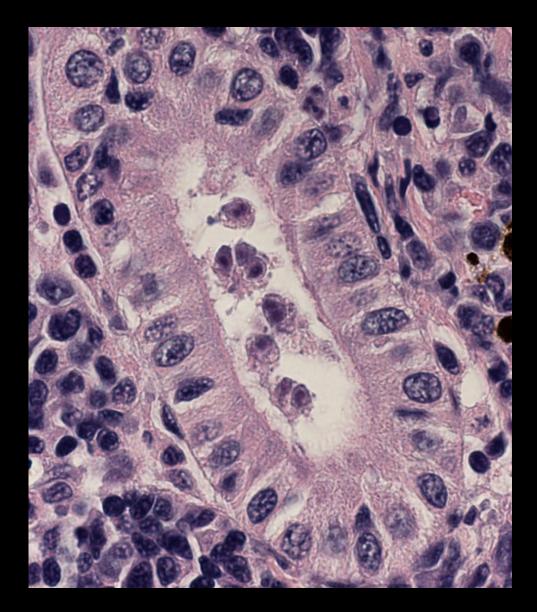


Degenerated parasites:





Sphaerospora truttae





Morphological diagnoses

<u>Kidney</u>, granulomatous interstitial nephritis, multifocal to coalescing, severe with multiple myxozoa consistent with *Tetracapsuloides bryosalmonae*

- <u>Kidney</u>, necrotising vasculitis, multifocal, severe with thrombus formation
- Kidney, Spaerospora truttae in tubular lumen

Aetiologies: Tetracapsuloides bryosalmonae, Sphaerospora truttae

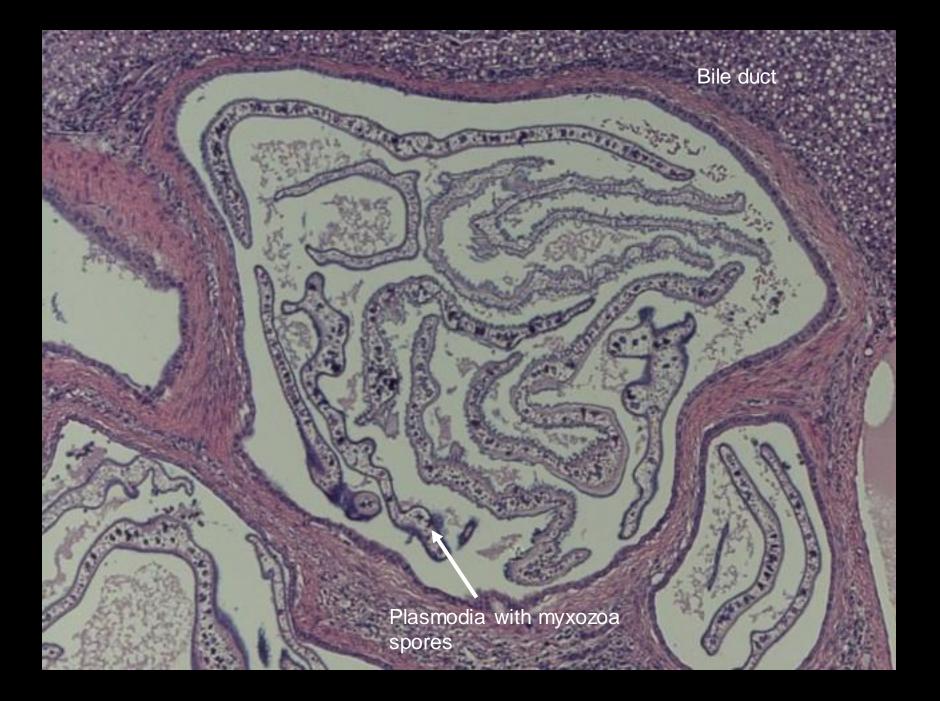
Proliferative Kidney Disease



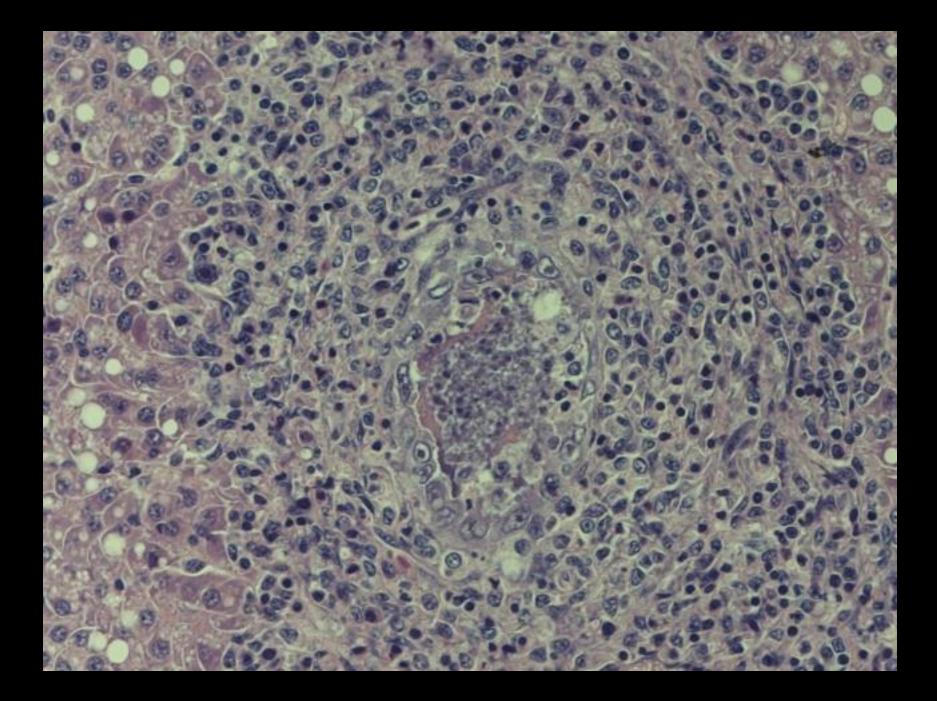
R06/34

Feral <u>brown trout</u> <u>Organ</u>: liver No clinical symptoms





Degenerated bile duct, granulomatous "foreign body" reaction





Morphological diagnosis

Liver, granulomatous hepatitis and cholecystitis, multifocal, severe with intraluminal myxozoa plasmodia

Aetiology

Myxidium truttae



F06/3309 and F09/2985

New: F13/7028

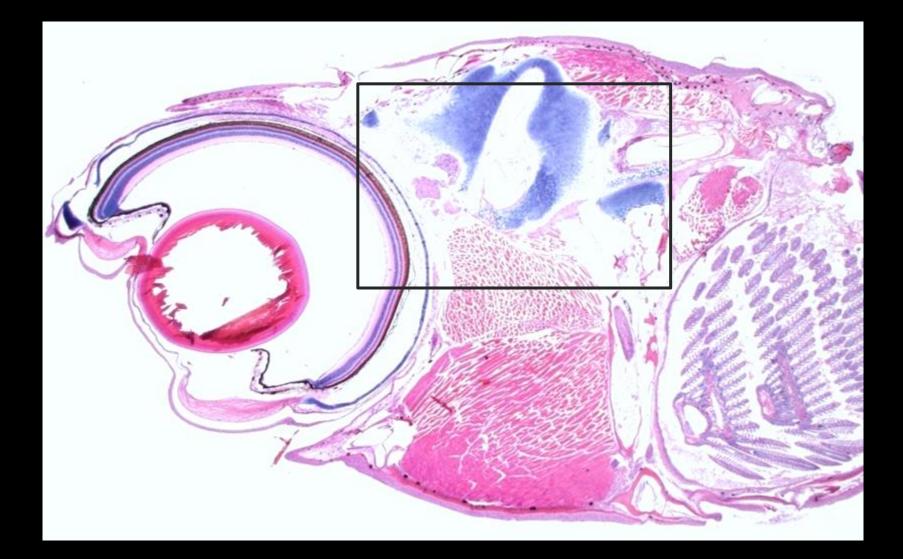
Rainbow trout, fish farm, natural environment

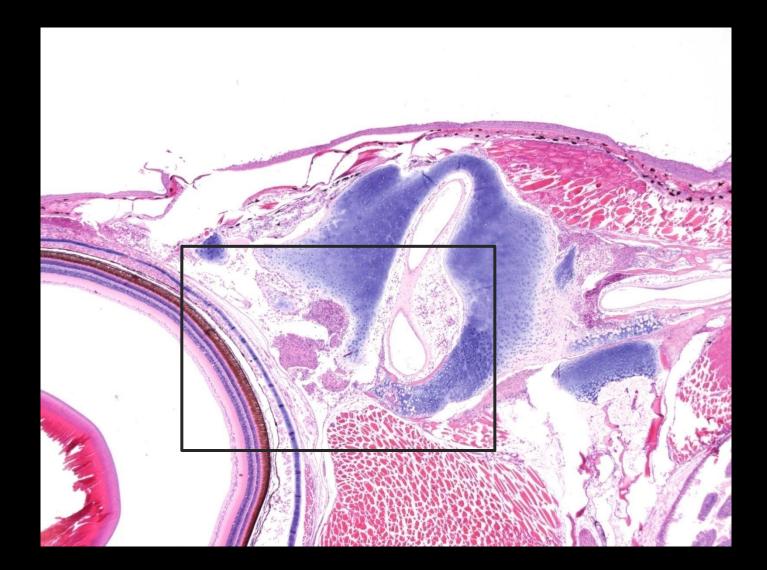
<u>Clinic</u>: spiral swimming behaviour, black discolouration of caudal

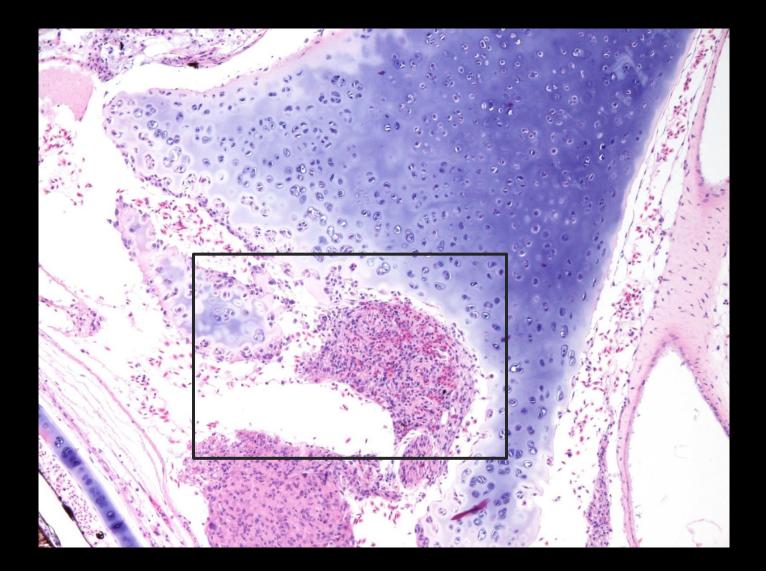
body part

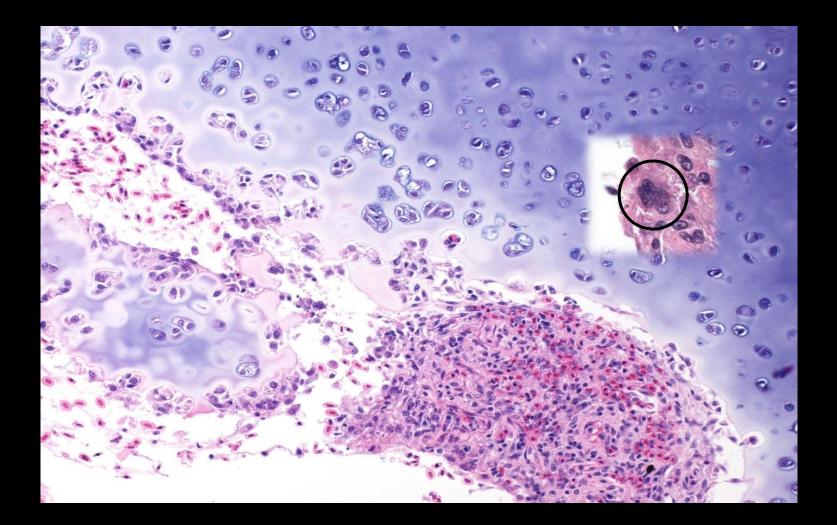
Organs: head, gills

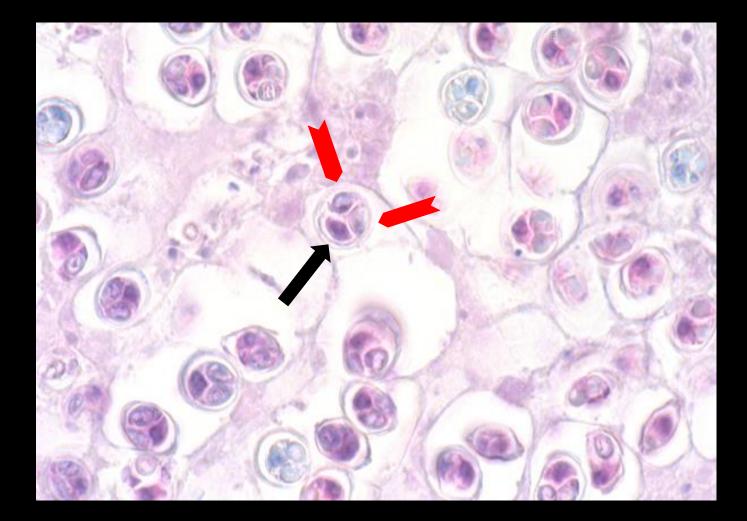


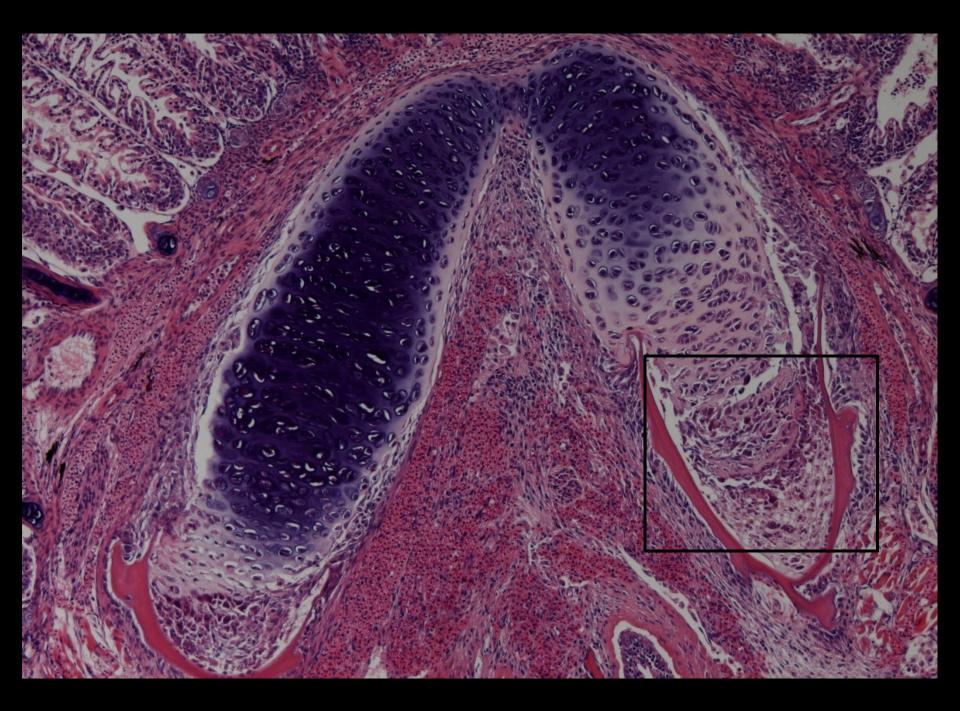


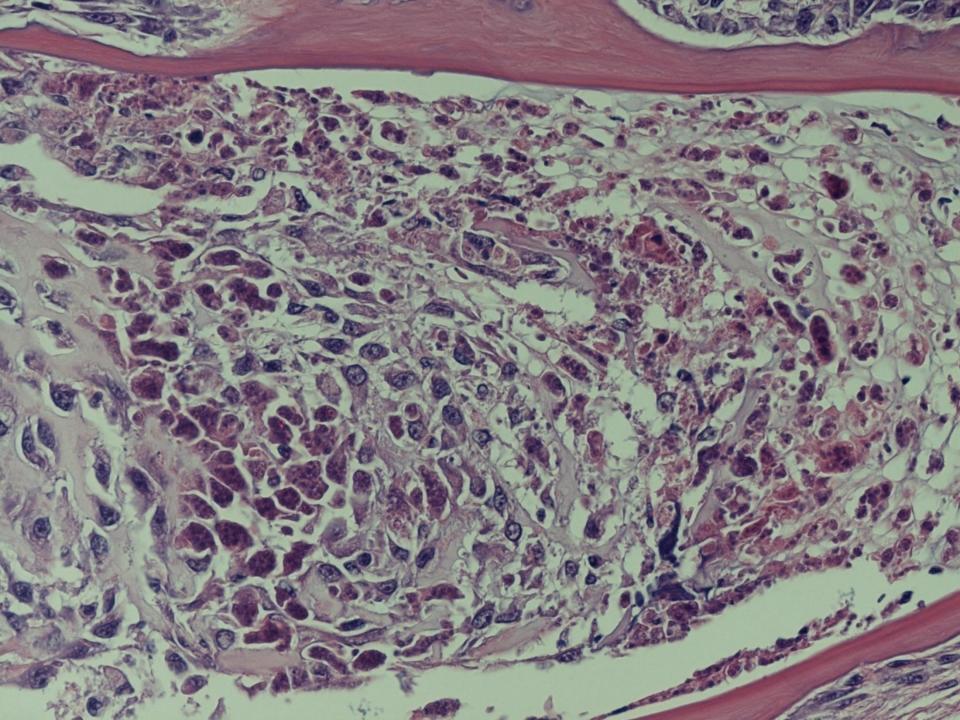














Morphological diagnosis

<u>Head cartilage, gills</u>, granulomatous and necrotising chondritis, multifocal, moderate with intralesional myxozoan parasites

Aetiology

Myxobolus cerebralis

Whirling disease Black tail



F01/4679

Feral <u>minnow</u>

<u>Clinic</u>: multiple black spots

Organ: Head, body cross section





Sucker

Eosinophilic cyst wall

Basophilic granula



Morphological diagnosis

<u>Muscle</u>, granulomatous myositis, multifocal, moderate with hyperpigmentation and trematode metacercaria

Aetiology

Postodiplostomum sp. metacercaria

Black spot disease