Pleurotrocha petromyzon

Ehrenberg, 1830

Most likely ID: n.a.

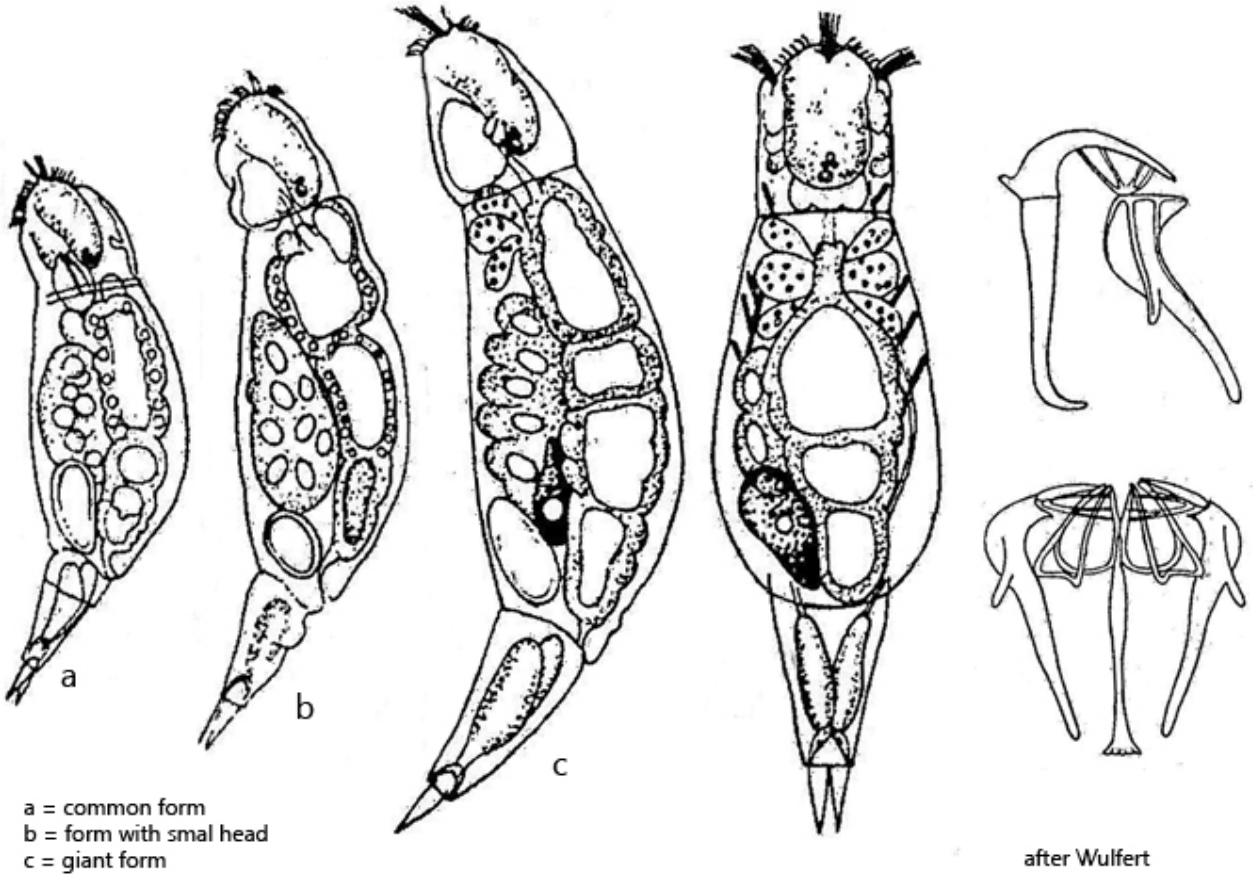
Synonym: n.a.

Sampling location: Simmelried, Hepbacher-Leimbacher Ried (Markdorf)

Phylogenetic tree: *Pleurotrocha petromyzon*

Diagnosis:

- body stout, club-shaped or pyriform
- length 220–480 µm
- sometimes giant forms present
- cuticle transparent, soft and flexible
- eyespot with spherical crystals
- foot with two segments
- foot glands elongatet with reservoir
- conical toes short (20–26 µm)



Pleurotrocha petromyzon

So far I have only found a few specimens of *Pleurotrocha petromyzon*. This rotifer is transparent and its internal structure is clearly visible. Characteristic is the eyespot with some some spherical crystals at the end of the central ganglion (s. fig. 4). They may have the function of a lens. The foot glands of *Pleurotrocha petromyzon* are elongated in shape. They produce a mucous secretion which is collected in a reservoir between the glands and the toes. It is easy to recognize (s. fig. 3).

Pleurotrocha petromyzon feeds on sessile ciliates but also on dead crustaceans. Therefore, there is a maximum in the population of *Pleurotrocha petromyzon* in late fall, when there are many dead crustaceans. During this time, giant forms are also formed, which are about twice as large as the normal form.

Further information and images of *Pleurotrocha petromyzon*: Michael Plewka-Freshwater life-*Pleurotrocha petromyzon*.

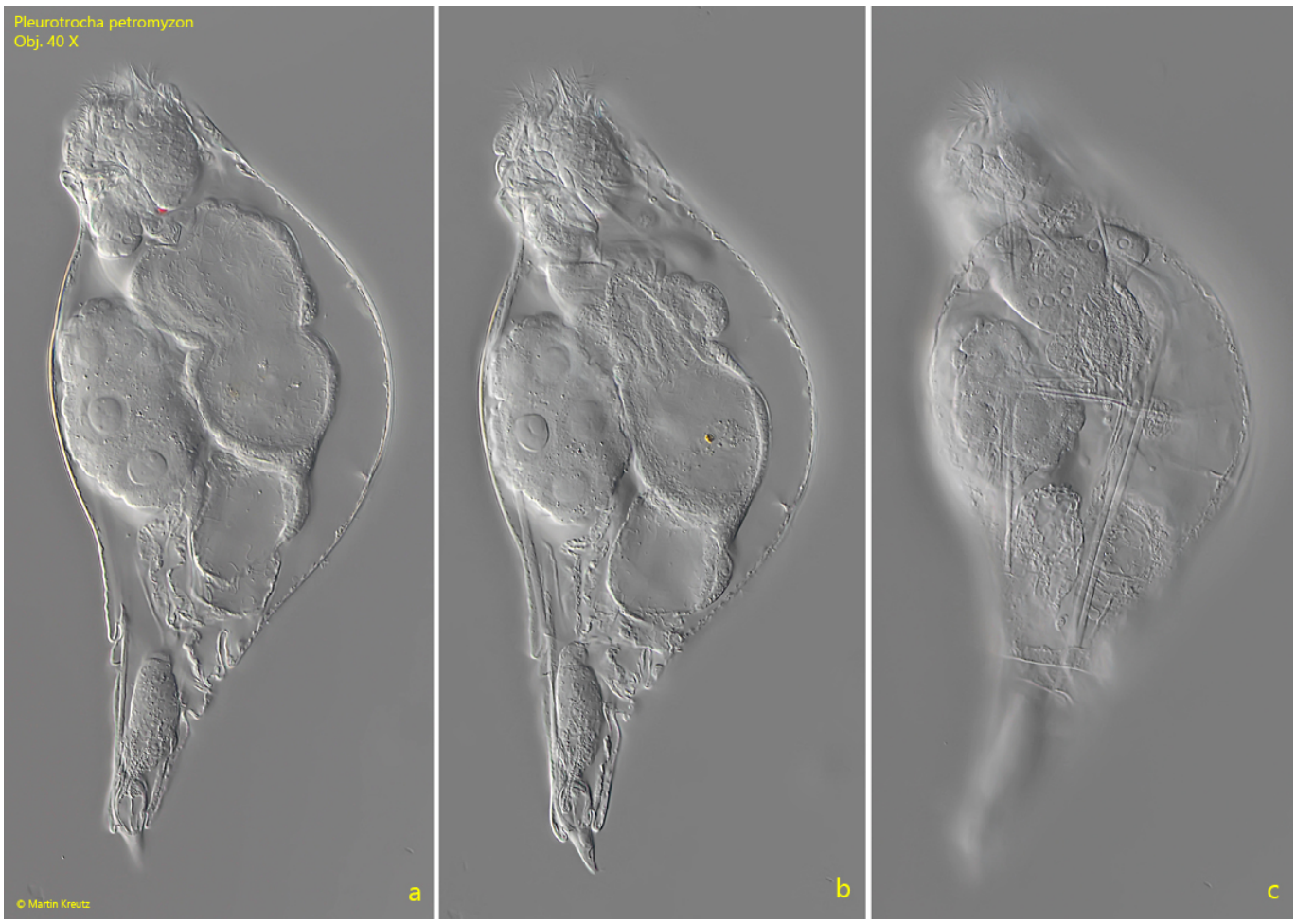


Fig. 1 a-c: *Pleurotrocha petromyzon*. L = 283 µm. Different focal planes of a slightly squashed specimen from left. Obj. 40 X.

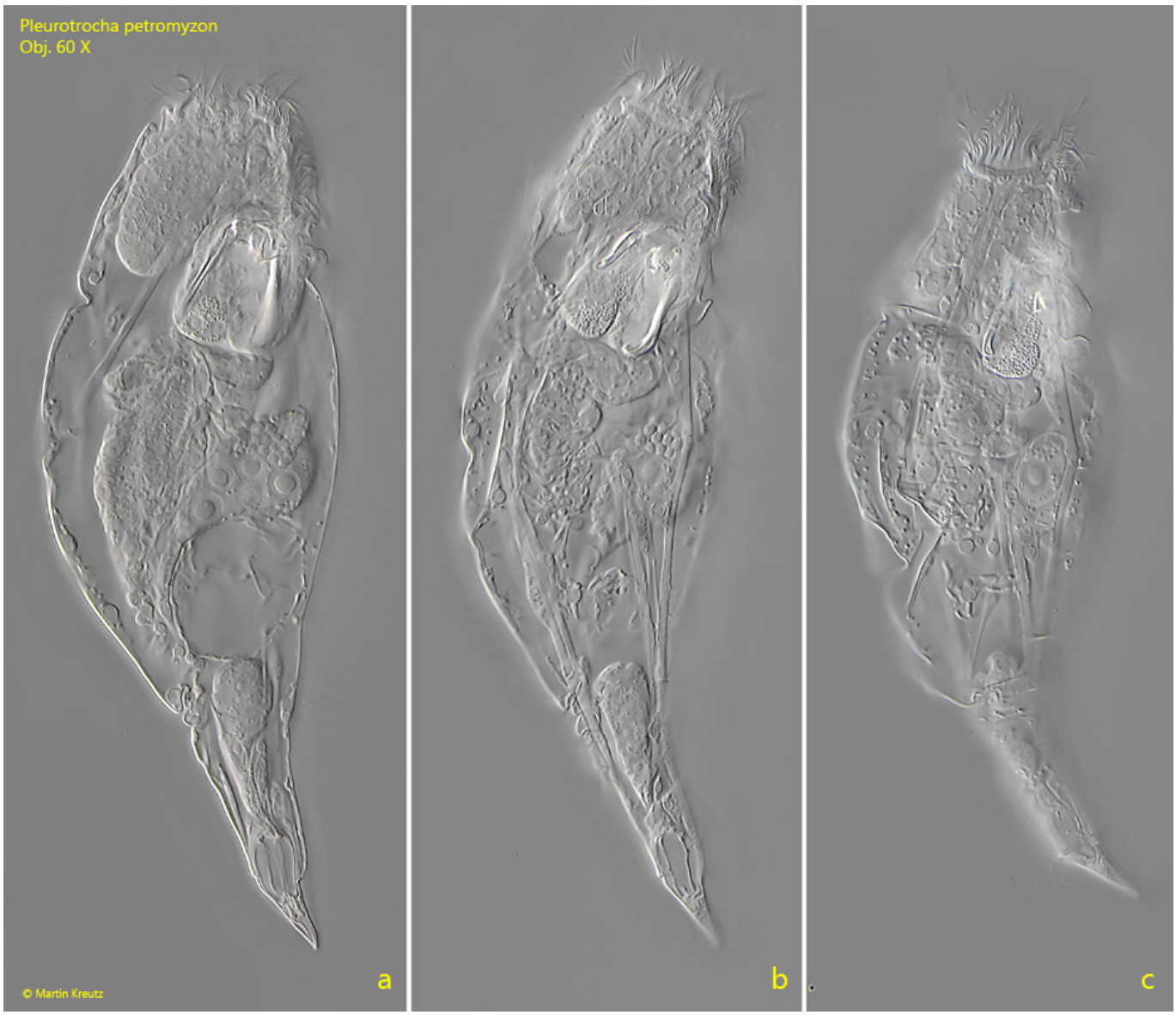


Fig. 2 a-c: *Pleurotrocha petromyzon*. L = 200 µm. Different focal planes of a second, slightly squashed specimen from right. Obj. 60 X.

Pleurotrocha petromyzon
Obj. 60 X
CG
ST
Vit
Int
BL
FG
MR
TO
© Martin Kreutz

Fig. 3: *Pleurotrocha petromyzon*. L = 283 µm. The specimen as shown in fig. 1 a-c in detail. BL = bladder, CG = central ganglion, FG = foot glands, Int = intenstine, MR = mucus reservoir, ST = stomach, TO = toes, Vit = vitellarium. Obj. 60 X.

Fig. 4: *Pleurotrocha petromyzon*. The eyespot (ES) with some spherical crystals (CR). TR = trophi. Obj. 100 X.

Fig. 5 a-b: *Pleurotrocha petromyzon*. Two focal planes of the trophi. Obj. 100 X.