

***Erignatha clastopis* Gosse, 1886**

Most likely ID: n.a.

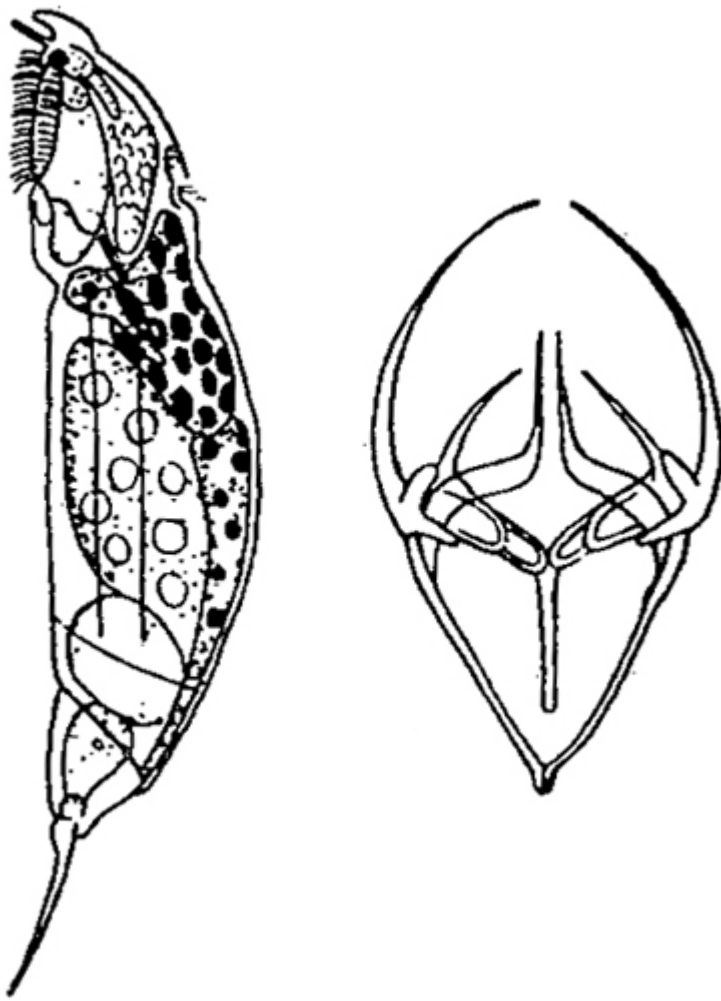
Synonym: n. a.

Sampling location: [Simmelried](#)

Phylogenetic tree: [Erignatha clastopis](#)

Diagnosis:

- body spindle-shaped
- length 145–210 µm (without toes)
- epidermis with lateral folds
- two frontal eye spots (pigment accumulation)
- toes 24–36 µm long, thin, ventrally curved
- gastric glands with a crystalline inclusion each
- stomach brownish or greenish from ingested cryptomonads



after Wulf

Erignatha clastopis

So far I have found *Erignatha clastopis* exclusively in the [Simmelried](#). Mostly in floating plants or between decomposing plant masses. I recognize *Erignatha clastopis* mainly by the large, usually brown or greenish colored stomach (s. fig. 2 a-b), the thin, ventrally curved toes (s. fig. 1a) and the conspicuous crystalline inclusions in the gastric glands (s. figs. 3 a-b and 4). These crystalline inclusions light up very brightly in DIC, and are therefore quickly identifiable. The nature and function of these inclusions is unknown to my knowledge, except that they are a crystalline mass. *Erignatha clastopis* feeds primarily on cryptomonads, which is why the stomach also shines brightly in DIC, due to undigested Maupas' bodies of the cryptomonads.

More images and information on *Erignatha clastopis*: [Michael Plewka-Freshwater life-Erignatha clastopis](#)



Fig. 1 a-c: *Erignatha clastopis*. L = 195 μ m (inclusive toes). Lateral view of a freely swimming specimen. Note the crystalline inclusions (CI) in the gastric glands. Obj. 60 X.

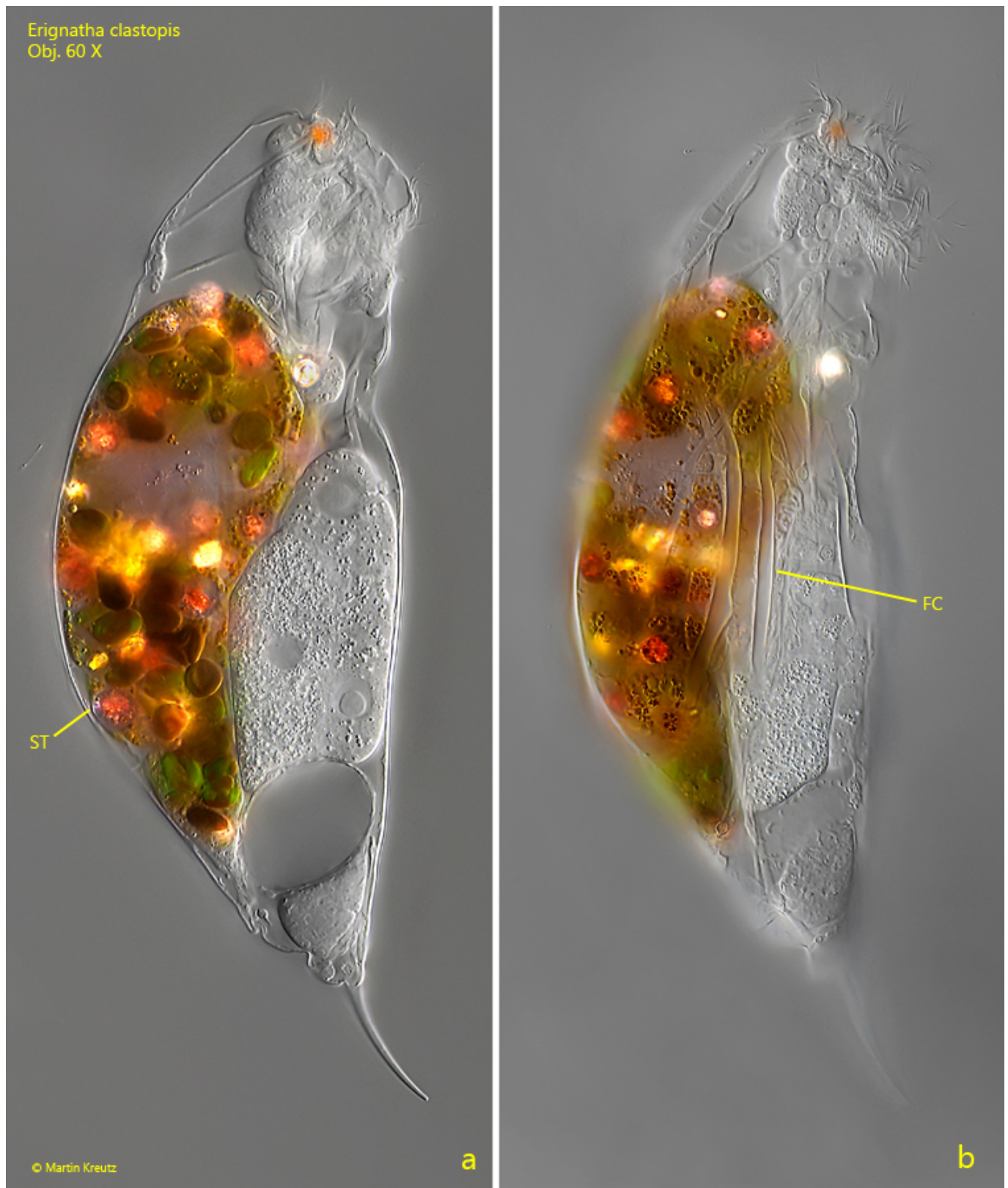


Fig. 2 a-b: *Erignatha clastopis*. L = 223 μm (including toes). Lateral view from right of a slightly squashed specimen. The crystalline inclusions in the gastric glands are highly birefringent and light up very brightly in DIC. The stomach (ST) of this specimen is completely filled with the remains of ingested cryptomonads. The Maupas' bodies of the cryptomonads cause the shining fragments. FC = folded cuticle. Obj. 60 X.

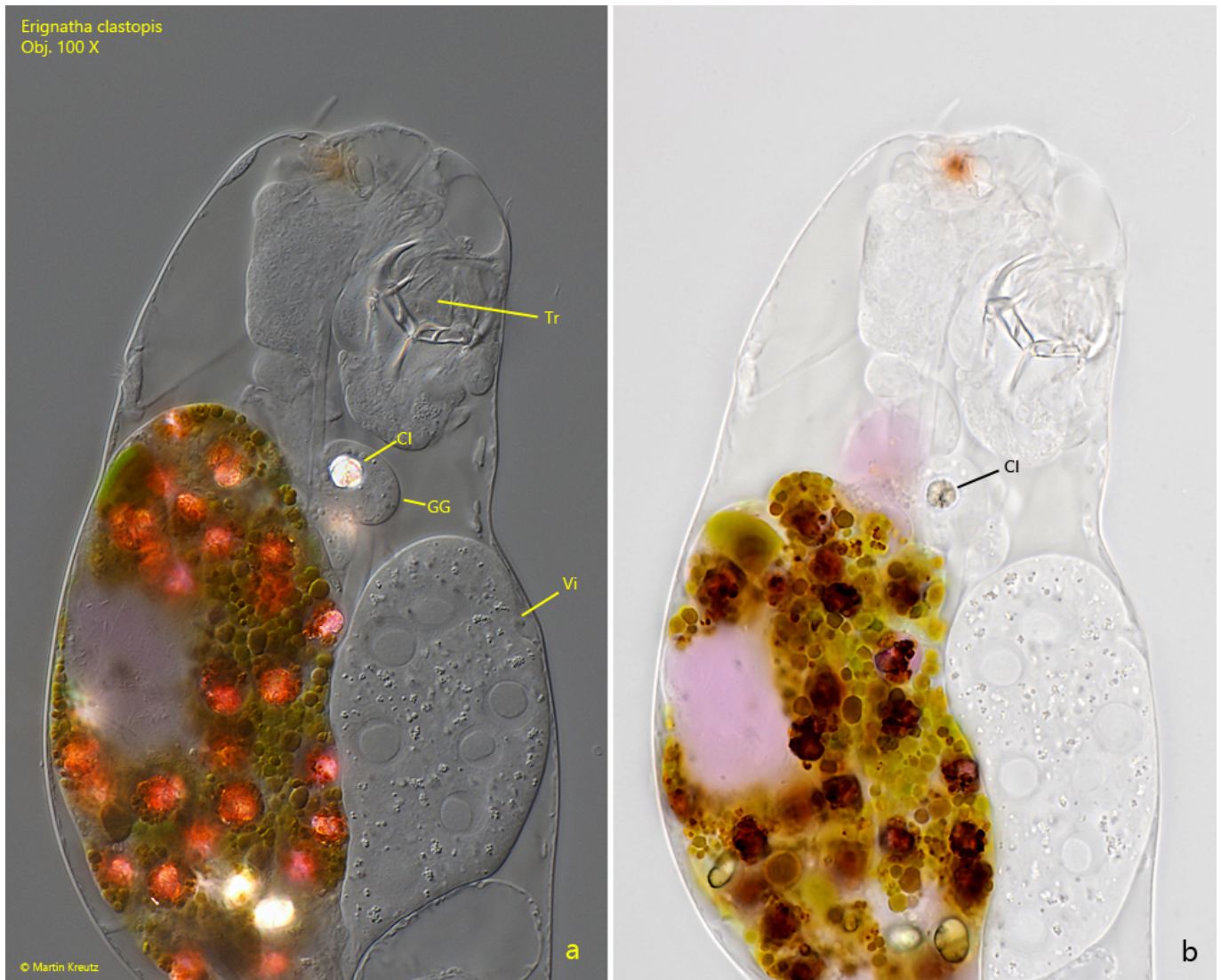


Fig. 3 a-b: *Erignatha clastopis*. A strongly squashed specimen in DIC (a) and brightfield illumination (b). Despite an underexposure of the DIC image the crystalline inclusion (CI) of the gastric glands (GG) lights up strongly and no details can be recognized. In brightfield illumination the inclusion appears brownish and seems to consist of radially grown crystals emanating from a central nucleus of crystallization. Tr = trophi, Vi = vitellarium. Obj. 100 X

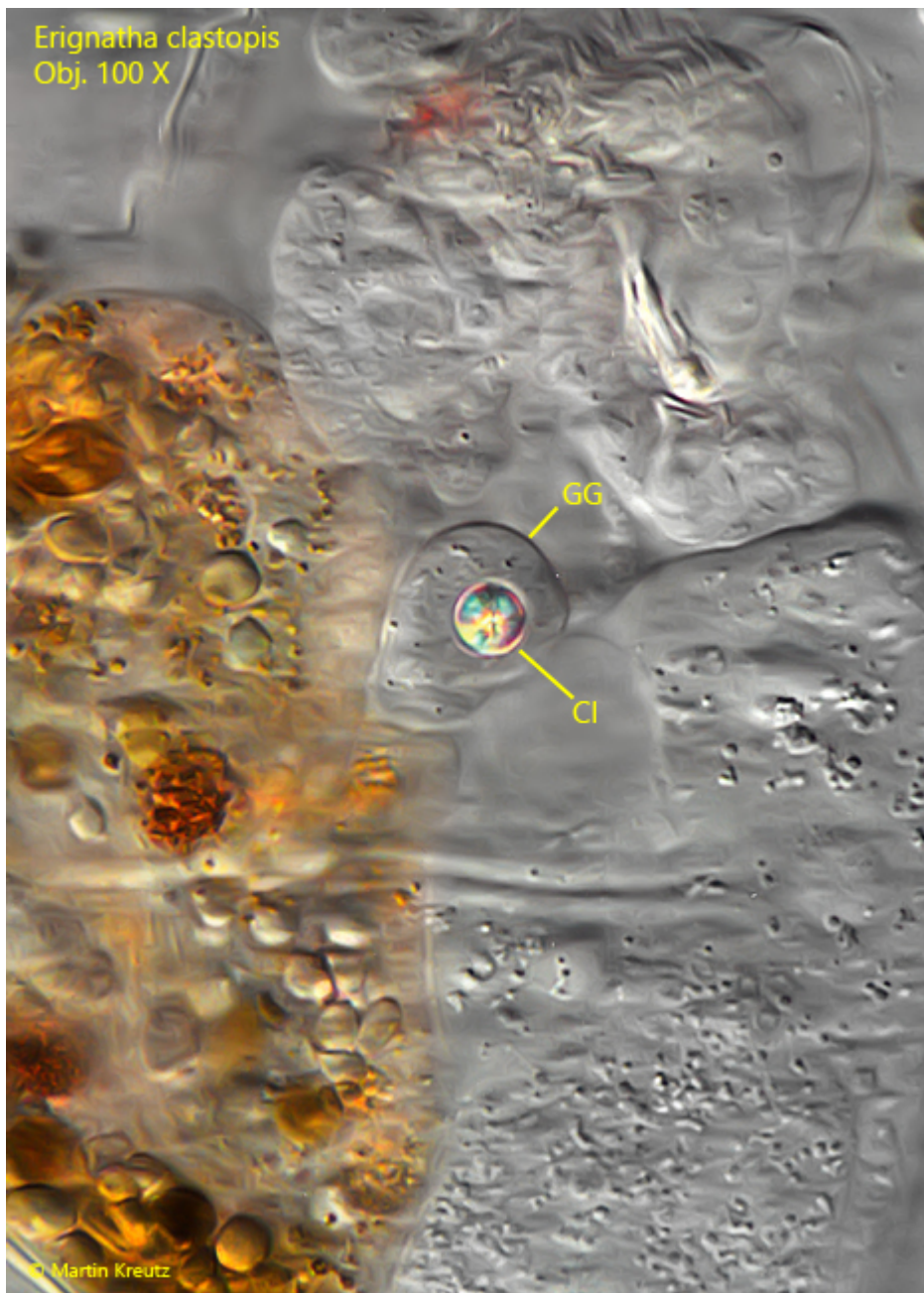


Fig. 4: *Erignatha clastopis*. This image was taken with a strong underexposure for visualisation of the details in the crystalline inclusion (CI) of the gastric glands (GG) in DIC. The inclusion appears as a spherule colored by the interference colors due to its birefringent properties. Obj. 100 X



Fig. 5: *Erignatha clastopis*. In this strongly squashed specimen the pair of eyespots is visible (ES 1, ES 2) and the pair of crystalline inclusions (CI 1, CI 2) of the two gastric glands. Obj. 100 X