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British Fresh-Water Algae

Cooke, Mordecai C

London, 1882-1884

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SUPPLEMENT.

To follow at page 4 —

Pleurococcus bituminosus. (*Bory. Dict. iii., 15.*)

Thallus mucous, brown-black, or pitch-colour, cells small, rounded angular, greenish brown, 4-8 associated in families, tegument scarcely broad, colourless, hyaline, indistinctly lamellose.

SIZE. Cells $\cdot 002$ mm. ; families $0\cdot 1$ - $0\cdot 02$ mm.

Rabh. Alg. Eur. i., 28.

Chaos bituminosus, Bory. Dict. iii., 15.

Palmella bituminosa, Meneg. Nost. p. 56.

Protococcus bituminosus, Kutz. Tab. Phyc. i., t. 5.

Gleocapsa bituminosa, Kutz. Spec. 224.

On walls of damp cellars, &c.

Plate CXXIX. fig. 1. Cells and families $\times 400$ diam.

Pleurococcus vestitus. *Reinsch. Algen. Fl. p. 56.*

Cells solitary, rarely united in small families, orange ; cell-membrane thick, densely invested with small hairs.

SIZE. Cells $\cdot 012$ - $0\cdot 022$ mm. diam.

Rabh. Alg. Eur. i., 29.

Acanthococcus vestitus, Lagerh. Svenska Vet. Akad. Forh., 1883, p. 37.

Plate CXXIX. fig. 2. Cells $\times 400$ diam.

GENUS 14 bis. **DACTYLOCOCCUS.** *Nag. (1849).*

Cells oblong or fusiform (at first ovate-cuspidate, then ellipsoid), free swimming, 2-8 associated in families, at length dividing and becoming single.

Propagation by division in one direction.

Dactylococcus De Baryanus. *Reinsch. Contrib. t. x., f. 1.*

Cells broadly elliptical-oval, apex broadly rounded, base attenuated into a hyaline pedicel, half as long as the cell, and expanded at its extremity, single or twin, cell-contents intense green, granulose, at length divided in 3 or 4. Cell membrane thick.

SIZE. Cells $\cdot 033 \times \cdot 016$ mm.

Parasitic on small aquatic crustaceans, *Entomostraca*, &c.

Plate CXXIX. fig. 3. a, individuals $\times 400$ diam. ; b, two individuals $\times 720$ diam.

To be inserted at page 91 —

Spirogyra velata. *Nordst. Lund. Univ. Arsskrift, 1872, Vol. IX.*

Sterile cells with the ends truncate, 3-4 times as long as broad, chlorophyll band single, making $1\frac{1}{2}$ to $2\frac{1}{2}$ turns in the spiral.

Spores elongated-oval, polymorphous, $1\frac{1}{2}$ to 3 times as long as broad; episporium thick, composed of four membranes; the second is hyaline and serobiculate; the third is coloured (*Nordstedt*).

Sporiferous cells a little swollen or not at all, sometimes shorter, sometimes a little longer than the spores.

SIZE. Cells $\cdot 035\text{-}\cdot 04$ mm.; zygospore $\cdot 06 \times \cdot 035\text{--}\cdot 085 \times \cdot 045$ mm.

Petit *Spirogyra*, p. 25, t. 7, fig. 1-5.

In ditches.

England (Leicester. F. Bates).

The zygospore has a broad hyaline border finely denticulate with the serobiculations of the second membrane.

Plate CXXX, fig. 1. a, sterile cells $\times 200$; b, sterile cell $\times 400$; c, fertile cells with zygospores $\times 200$ diam.; d, e, f, zygospores with the investing cells $\times 400$ diam.

At page 165, after *E. capillare*, add —

Oedogonium capilliforme. *Kutz. Spec. 367 (?)*.

Oogonia single, a little swollen, obversely egg-shaped, opening with a superior pore; oospores ellipsoid-globose or cylindrically globose (almost four-angled in optical section), not filling the oogonia; male plants a little more slender than the females; spermogonia 2-10 celled, alternating with the vegetative cells; terminal cell obtuse.

SIZE. Cells of female $\cdot 03\text{-}\cdot 034$ mm., $1\frac{1}{4}$ to 3 times as long; of male $\cdot 024\text{-}\cdot 028$ mm., $1\frac{1}{2}$ times as long; oogonium $\cdot 042\text{-}\cdot 048 \times \cdot 051\text{-}\cdot 062$ mm.; oospore $\cdot 037\text{-}\cdot 045 \times \cdot 04\text{-}\cdot 05$ mm., usually $\cdot 039\text{-}\cdot 04$; sperm. cell $\cdot 02\text{-}\cdot 025 \times \cdot 008\text{-}\cdot 01$ mm.

Wittr. Mon. *Oedog.* p. 31. *Kutz. Tab. Phyc. iii., t. 37, f. 3 (?)*.

In pool and ditches.

Britain (Leicester. F. Bates).

Plate CXXIX, fig. 4. a, female filament with oogonia $\times 400$ diam.; b, male cells with alternating spermogonia $\times 400$ diam.

Insert at page 187 —

***Chroolepus umbrinum.* Kutz.**

Stratum thin, crustaceous, rather pulverulent, reddish brown growing pale when dead, threads and branches abbreviated, torulose, joints nearly as long as broad, broadly elliptic or subglobose.

SIZE. Cells .02 mm. diam.

Rabh. Alg. Eur. i., 372.

Protococcus crustaceus, Kutz. Spec. 203.

Protococcus umbrinus, Kutz. Phyc. Gen., t. 7, f. 2. Cohn in Hedwigia i., p. 1.

On the bark of beech and oak. (Kelvedon. E. G. V.)

Plate CXXX. fig. 2. *Chroolepus umbrinum* × 400 diam.