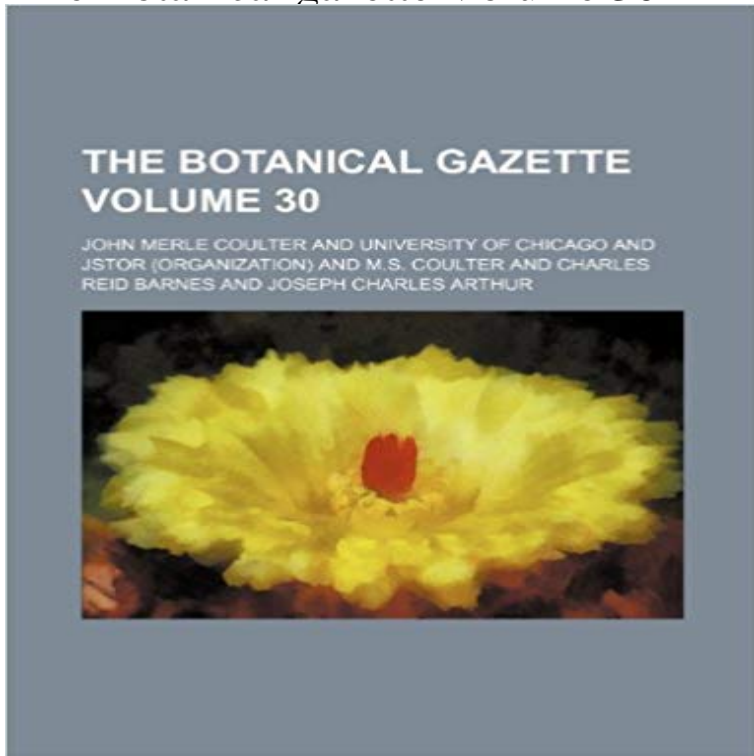


The Botanical gazette Volume 30



This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1900 edition. Excerpt: ...preceding the true thickening process, the activity of the cytoplasm consists only of its preliminary accumulation on the membrane to be thickened. In this the nucleus exerts no clearly recognizable control, but does do so in the thickening process itself. This consists of the apposition of materials early produced in the cytoplasm, of which cellulose is the primary one, the other substances being such as promote hygroscopicity and resistance to decay.--C. R. B. Dr. Georg Goetz has restudied the development of the egg in the Characeae, which leads him to consider the group as independent of the algas and derived from the primitive type of the archegoniates, just as the mosses and ferns. The Wendungszellen of Nitella he regards as a reduced archegonium wall, and the peculiar separation of a portion of the nuclear substance reminds one of the formation of a ventral canal cell.--C. R. B. Dr. F. Noll proposes the use of the scape of dandelion for demonstrating the mechanics of tendril coiling. By cutting out from the scape a long strip not much wider than thick, and, after fastening the two ends so that they cannot rotate, immersing the preparation in water, the inner tissues elongate so greatly that the strip is thrown into a spiral coil with one or more points of reversal, thus imitating very closely a huge tendril.--C. R. B. According to Palladine,²³ though light is not requisite for the regeneration of proteids, if cane sugar is supplied to the etiolated leaves of *Vicia Faba* under experimental conditions, the regeneration goes on more energetically in light than in darkness, and for this the more refrangible light is the more efficient. Such leaves cultivated on cane sugar solution in light

respire more than twice as actively as when kept...

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