

the question as to whether the given specimen is to be referred to this genus or to the other, the existence of an *absolute* distinction (in the sense of Nägeli) is indispensable.

“The whole Report is almost exclusively of a critical character. Its most interesting *positive* statements are the following:—on the structure of the skeletal fibres and their development; statements on the formations which Dr. Poléjaeff feels inclined to connect with the filaments; some statements of a more detailed character on the anatomical structure of the soft parts; organisation of *Darwinella*, *Ianthella*, *Psammoclema*, *Psammopemma*, *Carteriospongia*, *Phyllospongia*, *Luffaria*, and *Verongia*; and data on the spermatogenesis in the last mentioned genus.”

