

On the Sphærobolus stellatus.

By the Rev. H. H. HIGGINS, M.A.

The author exhibited a drawing of this plant, in various stages of development, the several processes of which the reverend gentleman had had an opportunity of witnessing. He had found the plant, a minute species of Fungus, in the neighbourhood of Huyton Quarry, on the 20th of September. It was growing on the flat surface of a stump, near the ground. He took it home, with a portion of the wood on which it was growing, and placed it on a bed of damp sand covered with a glass shade. A cluster of similar plants soon sprang up, and the mode of growth in a single specimen was this:—At first appears a little patch of reticulated fibres, the centre of which becomes elevated from beneath by the growth of the young plant, which at length bursts through the web, and assumes the colour and size of a grain of mustard-seed. Subsequently it becomes egg-shaped, and attains a height of about a line. A star-like fissure now divides the apex of the plant into five or six equal segments, which fall back like the petals of a flower, and discover the inner or lining membrane, resembling a minute egg-cup, and containing a *sporangium* or ball of spores. At the period of maturity, this inner membrane suddenly turns itself inside out, with an audible snap, projecting the sporangium to a distance of several inches. The inside of the glass shade used as a cover for the plants became spotted with forty or fifty of these sporangia, which had been ejected with such force as to flatten them against the glass.

A portion of the spore-pulp, under a high magnifier, exhibited innumerable minute particles, displaying with great activity the ordinary Brownian movements. When the pulp was taken from an unripe sporangium, there were also to be seen, by the aid of iodine and a magnifier with very good power of definition, certain other bodies of a linear or slender oblong shape, many times the size of the moving particles, and quite pellucid. These appeared to be attacked and entered by the particles; but whether the linear bodies afterwards became developed into perfect spores, the observer was not able to ascertain.—*Proc. Lit. and Phil. Soc. of Liverpool*, Nov. 17, 1856.

*The Grape Disease.**To the Editors of the Annals of Natural History.*

Sheffield, Dec. 9, 1857.

GENTLEMEN,—Without at all questioning the influence of the *Oidium* as a cause of the grape-blight, there can be little doubt that in this, as in all similar epidemics, some predisposing cause will be found, by which the vital energies of the organism affected (plant or animal) are depressed, and a vantage-point is thus offered to the disease. We know that if a vegetable be planted in soil totally deprived of some one of the necessary ingredients, it is unable to exist. If, however, instead of the missing constituent, there be found some



Higgins, H H. 1857. "On the Sphærobolus stellatus." *The Annals and magazine of natural history; zoology, botany, and geology* 20, 529–529.

<https://doi.org/10.1080/00222935708693986>.

View This Item Online: <https://www.biodiversitylibrary.org/item/19654>

DOI: <https://doi.org/10.1080/00222935708693986>

Permalink: <https://www.biodiversitylibrary.org/partpdf/3426>

Holding Institution

Natural History Museum Library, London

Sponsored by

Natural History Museum Library, London

Copyright & Reuse

Copyright Status: Public domain. The BHL considers that this work is no longer under copyright protection.

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.