

Sphaerian fungus which grows out of the larvæ of *Zachnosterna fusca* and other Scarabæidæ :

" If only a single such specimen as the above had been met with, we might account for it by supposing that the larva had accidentally died with the undevoured seed of some plant in its mouth, and that this seed thereupon vegetated and grew, using the body of the plant as manure to aid it in its growth. But how can we account for the large numbers of these specimens found in one place, at one time, and by one man ? I can only explain these singular circumstances by supposing that some particular kind of seed is poisonous to this larva, although the instincts of the larva do not prompt it to reject such seed as food. Hence it is to be hoped that Mr. Paulding's experiments will be continued until he clearly ascertains what plant is produced from this vegetative larva. Possibly we might turn such knowledge to practical account by sowing this particular kind of seed in places infested by the White Grub, and especially where, as with young trees in nurseries, we cannot conveniently reach our enemy with the plough, the hoe or the spade."

In August, 1873, at the Portland Meeting of the Am. Assoc. Adv. Science, after giving an example of the destruction of the entire caterpillar population of a 12-acre lot of forest land, by the accidental introduction of pebrine, or muscadine, from a neighboring colony of silk worms, I spoke as follows, recommending at the end of my discourse :

" 7. Careful study of epidemic diseases of insects, especially those of a fungoid nature ; and experiments on the most effective means of introducing and communicating such diseases, at pleasure."

The want of logical connection between these extracts is sufficiently obvious. But in order to place this more clearly before the reader, let me in a few words sketch the pictures presented to the mind by the respective conceptions of Mr. Walsh and myself.

Mr. Walsh exhibits an uninstructed, though intelligent farmer, seeking under his advice for the imaginary seed of an impossible plant, to be strewn on the ground in places infested by the White Grub, in the fond hope that the latter (in his roving hours ?) may swallow this seed and die of indigestion.

My picture is of a well trained mycologist, skilled in the recognition of microscopic forms, acquainted with ferments and their methods of growth, familiar with the protean forms of zymosis, so far as they have