

*ratio equivoca*, attributed by old writers to these creatures; but which is so directly contradicted by their enormous reproductive powers and the curious metamorphoses which some of them are known to undergo. He also well maintains their use in nature, as physicians, rough it may be, but necessary to apply sharp remedies to unnatural modes of life. The cestoid entozoa or tape-worms are these of which the history is best known; and they are ascertained to be in their young state the little cystic entozoa that take up their abode in the flesh and other tissues of animals. What can be more strange than the transformation of the little microscopic entozoon of the liver of a mouse into the tape-worm of the cat, and the eggs of the tape-worm again finding their way into the food of the mouse, and thence into its flesh or liver; or what more curious than that the *Cysticercus cellulosæ*, which causes "measles" in hogs, rabbits, and sheep, is only the young state of the *Tænia solium* which infests the intestines of man, and that man and these domestic animals reciprocally supply each other with these pests.

"The scolex of the *tænia solium* and the *cysticercus cellulosæ* are identical. This is apparent from the similarity in anatomical structure and from experiment. It has now been determined beyond controversy that by feeding the hog, rabbit and sheep with the eggs of the *tænia solium* those animals became infested with the *cysticercus cellulosæ*, and by feeding the dog and man with those cystic worms, tape-worms were produced in their intestines. The abundance of cysticerci in the hog is well known. Statistics abundantly prove the frequent occurrence of tape-worm in butchers who are accustomed to handle raw meat and are not over careful or cleanly, but often by their hands or knives rubbed in their mouths introduce the cystic worms into their system. It is also common among those who eat in any manner raw or imperfectly cooked meat contaminated with the cysticerci. The Hottentots in the Caffir wars demonstrated the mode of translation of the cystic worms into the suitable nidus for the final stage of development, namely, the intestine. Those people in the invasion of the enemy's territory feasted according to their barbarous fashion upon the cattle and sheep that were captured, and became greatly infested with tape-worm, whilst previously they were mostly exempt."

The history of these creatures may be shortly stated as follows:—

1. The *Proglottis* or full-grown joint loaded with ova, passes