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ON THE DESTRUCTION OF OBNOXIOUS INSECTS BY YEAST.

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The paper published CANAD. ENT., vol. xi., p. 110-14, was reprinted with some additions as a pamphlet, Cambridge, December, 1879. The recorded experiment on the Potato Bug made by Mr. James H. Burns, proved evidently the poisonous character of the yeast-fungus. The fifty beetles which were sprinkled with it died mostly on the eighth day, and the rest in the four following days. None of them survived. There were collected at the same time, October 2, and at the same place, fifty other beetles, which were kept in the same room. Of these, which were not sprinkled, to Nov. 14th only three had died, and March 1st twenty-five lived as brightly. The experiment is so far a decided success, as it has proved that insects are killed by the application of yeast. I may add that an experiment made a few weeks ago in a green-house seems to be successful in killing Aphides.

Dr. Metschnikoff has published a pamphlet, Odessa, 1879, and a record of it, Zool. Anzuger, 1880, Feb., concerning his experiments in destroying obnoxious insects (*Anisoplia* and *Cleonus*) by the application of fungus. The difficulty of raising the fungus chosen by him (*Isaria vixescens*) in sufficiently large quantities he hopes to overcome by raising the *Isaria* in beer-mash.

Mr. A. Giard, Lille, France (Bull. So. de Department de Nord., sec. 2, An. 2, No. 11), has published a paper containing very interesting facts regarding insect epizootics. The discovery of L. Nowakowski of the copulation of some *Entomophthora*, and the conclusive proof given by O. Brefeld that *Tarichium* is only a different form of which the *Status conidiophorus* is the *Empusa*, induce Mr. Giard to retain for the genus the name *Entomophthora*, for its asexual form the name *Tarichium*, for its sexual form the name *Empusa*. In summer, when insects in which those fungi