Porcus Piscis, most nations calling this fish Porcus Marinus, or the Sea-swine. Indeed it resembles a Swine in many particulars, as the fat, the strength of the snout, &c.

A Letter of Francis Willoughby Esquire, of August 24. 1671.
Containing some considerable Observations about that kind of Wasps, call'd Vespæ Ichneumones; especially their several ways of Breeding, and among them, that odd way of laying their Eggs in the Bodies of Caterpillars, &c.

S I remember, M. Lister's opinion is, that the Musew Ich. neumones lay their Eggs in the bodies of Caterpillars; which I look upon as very jugenious and true, and must subscribe to it, though I cannot yet absolutely demonstrate it, as I hoped I should have done before this. These Ichneumones have all four wings, Antennælike Bees; their body hanging to their breast by a slender ligament, as in Wasps; most if not all, have stings, and are made of a maggot, that spins her self a Theca before she turns into a Nympha. There is great variety of them; Some breed, as Bees do, laying an Fgg, which produceth a maggot, which they feed till it comes to its full growth: Others, as we guess, thrust in their Eggs into plants, the bodies of living caterpillars, maggots, &c. For, it is very surprizing to observe, that a great Caterpillar, instead of being changed into a Butter fly (according to the usual course of nature;) should produce sometimes one, sometimes two or three, and sometimes a whole swarm of Ichneumones. I have observed this Anomalous production in a great many forts of Caterpillars, both hairy, and smooth; in several forts of maggots, and, which is most strange, in one Water infect. When there come many of these Ichneumon maggots out of the body of the same Caterpillar, they weave all their Thera's together into one bunch, which is fometimes round with web about it just like a bag of spiders Eggs; but I dare venture to answer M. Lister's 10th Quare pag. 2172, of the Phil. Trans. negatively, that none of them feed upon spiders Eggs, but it is the similitude of those Thera's, conglobated together, to Sss

One of the green Caterpillars, common in the Heaths in the North, went so far on to her natural change, that she made her self up into a great brown Theca, almost of the shape of a bottle, which was filled with a swarm of Ichneumones. And I have observed in one or two other forts, that from the very Aurelia it self hath come an Ichneumon; which is very odd, that the Caterpillar, stung and imprægnated by the Ichneumons, should be yet so far unhurt, and unconcerned, as to make her self a Theca, and to be turned into an Aurelia.

I have often feen a great Ichneumon dragging a Caterpillar in the high-way. This year Mr. Wray, in company with another ingenious neighbour, observed one haling a large green caterpillar much bigger than her felf, which after the had drawn the length of a pearch, she laid down, and then takes out a little pellet of Earth, with which she had stopped the mouth of a small hole like a worm-hole; then she goes down into it, and staying a very little comes up again, and draws the eruca down with her into the hole, and there leaves her; and afterwards not only stops but fills up the Hole, sometimes carrying in little clods, and sometimes scraping dust with her feet, and throwing it backwards into the hole, going down after, her self, to ram it close. Once or twice she slew up into a Pine-tree, which grew just over her hole, perhaps to fetch Cement; When the hole was full and even with the superficies of the ground about it, she draws two Pine-tree-leaves, and lays them near the mouth of the hole, and flyes away. Not taking notice that she came any more in three or four days, we digged for the Caterpillar, and found it pretty deep. I put it into a box, expeding it would have produced an Ichneumon, but it dried away and nothing came of it. We lately obseryed a fort of Ichneumons, or rather ve/pa, which prey upon feveral forts of flyes; when they fly with them, they hold them by the heads, and carry them under their bellies. These make holes a great depth in the ground, in which they lay their young, and feed them with the flies they catch, creeping backwards into the ground, and drawing the flies after them. I suspect they may at first lay their Eggs in the very body of a

fly, but one fly being not enough to bring the young one to its full growth, they feed it with more: Their Theca's are at last all covered over with the wings, legs, and other fragments of flies.

A Letter of Mr. Martin Lifter, written at York August 25 1671. confirming the Observation in No 74. about Musk sented Insects; adding some Notes upon D. Swammerdam's book of Insects, and on that of M. Steno concerning Petrify'd Shells.

SIR,

Have observed the two Insects, which Mr. Ray saith, smell of Musk, which indeed they do in an high degree. The fmall Bees are very frequent in the Wooles in Lincoln shire, and about the latter end of April are to be found in pastures and meadows, upon the early-blown flowers of a fort of Ranunculus, as You have been rightly informed; but it is something improper to fay Bees feed on flowers: And likewise the same Bees are no less frequent on the flowers of Dens Leonis, &c. The sweet Beetle, is a very large Infect, and well known about All the trials I have made to preserve them with their smell, have proved in effectual: For, both forts of these Infects will of themselves in a very few weeks become almost quite sent-less. To these I shall add another sweet-smeiling Infect, which is a Hexapode-worm feeding on Gallium lu-

The Observation of the Vespa Ichneumones, as it hath relation to Spiders, I willingly referve for other Papers: vet I may tell you in general, that this kind of Infect is one of the greatest puzzels in nature; there being few Excrescencies of Plants, and very many births of Infects, wherein these flender Wasps after divers strange ways are concerned.

Though I be at present from my Books, yet I well remember the passage, which Mr. IVilloughby refers you to in Muffet *. And he is well able to judge, * See N mb whether the Observation be made upon the same 74. p.2221. fort of Insect. I conceive it a fault not connitent with Ingenious Spirits, to pass by in silence the Industry Sss 2

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