

takes the first opportunity of quitting the hive, never more to return. A queen bee thus mutilated, ran about, without apparent object, as if in a state of delirium, and was incapable of directing her trunk with precision to the food which was offered to her. Latreille relates that, having deprived some labouring ants of their antennæ, he replaced them near the nest; but they wandered in all directions, as if bewildered, and unconscious of what they were doing. Some of their companions were seen to notice their distress; and, approaching them with apparent compassion, applied their tongues to the wounds of the sufferers, and anointed them with their saliva. This trait of sensibility was repeatedly witnessed by Latreille, while watching their movements with a magnifying glass.

The Arachnida, from the mobility of their limbs, and the thinness of their cutaneous investment, have a very delicate sense of touch. Among the Mollusca, it is only the higher orders of Cephalopoda that enjoy this sense in any considerable degree, and they are enabled to exercise it by means of their long and flexible tentacula. Many bivalve mollusca have, indeed, a set of tentacula placed near the mouth, but they are short, and of little power. It is probable that the foot may also be employed by these animals as an organ of touch.

Fishes are, in general, very ill-constructed for the exercise of this sense; and their fins are used for no other purposes than those of progressive motion. That part of the surface which possesses the most acute feeling is the underside, where the integuments are the thinnest. The chief seat of the sense of touch, however, is the lip, or end of the snout, which is largely supplied with nerves; and perhaps the *cirri*, or little vermiform processes called *barbels*, which in some species are appended to the mouth, may be subservient to this sense.* These processes in the *Silurus glanis* are moved by particular muscles.

* These kind of tentacula are remarkable for their length and mobility in the *Lophius piscatorius*, or Angler; and it is said that they are employed by