

tion is soon repaired; and if the whole animal be divided into a greater number of pieces, each fragment acquires, in a short time, all the parts which are wanting to render it a complete individual. The same phenomena are observed, and nearly to the same extent, in the *Planaria*. The *Asterias*, the *Actinia*, and some of the lower species of *Annelida*, as the *Nais*, are also capable of being multiplied by artificial divisions, each segment having the power of supplying others, and containing within itself a kind of separate and individual vitality.

A power of more partial regeneration of mutilated parts by new growths, which is very analogous to that of complete reproduction, exists in the higher orders of animals, though it does not extend to the entire formation of two individuals out of one. The claws, the feet, and the antennæ of the *Crustacea* and the limbs of the *Arachnida*, are restored, when lost, by a fresh growth of these organs. If the head of a *Snail* be amputated, the whole of that part of the animal, including the telescopic eyes, and other organs of sense, will be reproduced. Even among the *Vertebrata* we find instances of these renovations of mutilated parts; as happens with respect to the fins of fishes: for Broussonet found that in whatever direction they are cut, the edges easily unite; and the rays themselves are reproduced, provided the smallest part of their base has been left. The tails of *Newts* and of some species of *Lizards*, will grow again, if lost; and what is more remarkable, the eyes themselves, with all their complex apparatus of coats and humours, will, if removed, be replaced by the growth of new eyes as perfect as the former. We have seen that the teeth of *Sharks* and other fishes are renewed with the utmost facility, when by accident they have been lost. Among *Mammalia*, similar powers exist, although they are restricted within much narrower limits; as is exemplified in the formation of new bones, replacing those which have perished. When we advert to the numberless instances of the reparation of injuries happening to various parts of our own frame, we have abun-