groups of one-celled and many-celled organisms show certain specific differences; the same will be found also in their activity in the struggle for existence, in the interaction of inheritance and adaptation which thereby acts selectively. The one-celled organisms, or Protista, show a simple (or trophic) growth, by cell-enlargement; they increase, for the most part, in a non-sexual manner (by division or the formation of spores). Inheritance is, therefore, accomplished by the kernel of the one cell, which at the same time constitutes the whole organism. The many-celled organisms, or histons, on the other hand, show a composite (or numerical) growth, by cell-increase; they reproduce themselves in a sexual manner (by the commingling of egg-cell and spermcell). Inheritance is, therefore, effected only by the kernels of the two sexual cells, whereas the other tissue-cells take no part in it. But within the tissue there is also a continual increase of the cells of which it is composed; and the formation of the tissue itself is determined by the cellular selection, which we have just spoken of as a highly important principle. The sturdiest cells in each tissue, those that perform their work best, seek and obtain, as a return, the best portion of the nutritive juice; they withdraw it from the weaker and less sturdy cells : the former grow and increase by division, whereas the latter must sooner or later die off.

The struggle for existence between the tissue-cells of the many-celled organisms must, accordingly, be regarded as the most important stimulus towards the progressive development and differentiation of their tissues and organs. In the case of one-celled organisms, on the other hand, the struggle for existence, and the natural selection occasioned