on conditions which are relatively so simple must have proceeded the rest in at an early stage in the septic process by time, in other words, that all contagious acids of the acetic series in which an microphytes are related by descent to the atom of hydrogen is replaced (as in "common microphyte" of sepsis, and consequently that whatever properties by an aromatic group. The latter of belong to the parent are likely to be represented, more or less modified, in those of the successors. If for exemple, it can be certainly stated that the instrument or agent by which the septic is such as to bring it into equality in this microphyte produces its toxical effect is respect with the most powerful antisepa ferment in the chemical sense, we are ties known. Under conditions of sepsis justified in assuming that the morbific slightly different, other analogous series action of the microphyte of small-pox is of the same nature; and if it can be shown that the septic fermentation is necessarily brought to an end by the development of an antagonistic chemical action, there is at least ground for the surmise that the mechanism by which the variolous fermentation brings itself to an end may be of the same nature, and and consequently within reach of invesligation,

Recent researches relating to the chemical characters and products of the septic decomposition of proteids have shown that the development of microphytes in an albuminous fluid undergoing sepsis at a favourable temperature is a terminable process, reaching its greatest activity a few days after the impregnation of the liquid with septic ferment; and that it is during this period of active vegetation that the liquid acquires its greatest toxical activity. After the culmination of the process the organisms rease to multiply and eventually die. this takes place long before the whole of the proteid material is used up it cannot septic products. be attributed to want of nutriment, and result of the breaking up of the proteid nisms. The bodies in question belong to cular kinds of living protoplasm. Their

the aromatic group, and are represented phenyl-acetic and phenyl propionic acids) these has been found by experiment to be destructive of the vitality of microphytes in a degree which is 20 times greater than that in which carbotic acid acts, and of aromatic compounds are produced which have not yet been subjected to physiological investigation.

Of late years physiologists have become familiar with the fact that chemical bodies belonging to the aromatic group, some of which are specifically identical with the aromatic products of sepsis, take part in the normal exchange of material of the living human or animal body. Their appearance in the urine in unnaturally large amount, when, as in cases of ileus, septic products are absorbed from the accumulated intestinal contents, indicates their relation to sensis, and affords ground for the inference that they normaliy come into existence as products of a similar disintegration of the proteid molecule. That this is so is confirmed by the observation that the proteid disintegration of tissue which takes place in the animal body, in poisoning by phosphorus, occasions a prevalence of aromatic bodies, as indicated by the discharge of phenyl compounds by the kidneys, similar to that determined by the absorption of

The property which so many of the there is good reason for regarding it as aromatic bodies possess of arresting the the result of the coming into existence of vitality of ferment organisms must for chemical bodies in the liquid, as the the present be regarded as purely organoleptic, for we can only define it by molecule, which possess the power of reference to the particular effects which arresting the growth of ferment orga- the bodies in question produce on parti-