

amed by transmitted light. The colonies are of general importance for the preparation of cover-glasses for microscopic examination with a high power (1,000 diameters) as all the forms obtained from a single colony may with certainty be known to belong to a single organism; and, moreover, forms one of the most important aids in the discrimination and identification of organisms. The authors examined, measured, described, and drew all the organisms as they appear when viewed under the microscope.

The motility and progressive growth of the various organisms was studied by "drop-cultivations." By such methods have these writers been able to describe a number of organisms obtained from the air. They state that a few of these, such as *micrococcus prodigiosus*, the *bacillus subtilis*, the yellow and orange *sarcina* have been more or less accu-

ately described by other observers, but the remainder are entirely new.

The following are those found and examined: Micrococci—1, *Micrococcus carnicolor*; 2, *M. albus*; 3, *M. gigas*; 4, *M. chrysus*; 5, *M. roseus*; 6, *M. candidans*; 7, *Streptococcus liquefaciens*; 8, *Sarcina lutea*; 9, *S. aurantia*; 10, *S. liquefaciens*.

Bacilli:—1, *B. aurescens*; 2, *B. aureus*; 3, *B. citreus*; 4, *B. plicatus*; 5, *B. chlorinus*; 6, *B. polymorphus*; 7, *B. profusus*; 8, *B. pestifer*; 9, *B. laevis*; 10, *B. cereus*; 11, *B. subtilis*; 12, *B. (micrococcus) prodigiosus*.

These many forms are described fully as they appeared in the various cultures already referred to. They form a compendium of air bacteriology which will be found most useful for comparison whether in further investigations, there, or upon this continent.

HYGIENE

GENERAL HYGIENE.

Sanitary Protective Association.

Dr. Benjamin Lee, the admirable Secretary of the State Board of Health of Pennsylvania, has recently been discoursing on the above topic before a State Sanitary Convention. Referring to life insurance, he says it is, he thinks, misnamed, and should be called death insurance, and thereafter goes on as follows:

In direct contrast to this somewhat depressing, though eminently useful, form of associate action for mutual benefit, I desire to call your attention for a few moments to another kind of association, the direct object and proved result of which is, to lengthen the lives of those participating in it, and which may therefore lay claim to the title of the true life insurance. Nor does it promote length of days alone. For while its right hand holds out that precious guerdon, in its left are the "riches and honor" which necessarily flow from the possession of a sound mind in a sound body. To the citizens of Edinburgh, Scotland, belong the honor of having originated the conception of a voluntary combination and pooling of resources for the purpose of mutual life and health insurance. This was embodied in the "Sanitary Protective Association of Edinburgh, just ten years ago, and the

movement has been in successful operation ever since.

The following is a general outline of the objects of the association and privileges of members:

1. To provide its members, at moderate cost, with such advice and supervision as shall insure proper sanitary condition of their own dwellings.
2. To enable members to procure practical advice, on moderate terms, as to the best means of remedying defects in houses of the poorer class, in which they may be interested.
3. To aid in improving the sanitary condition of the city.

The first inspection does not cause any disturbance to household arrangements. It is followed by a report making specific recommendations, if any improvements in the household arrangements are thought necessary. The members are not bound to carry out these recommendations.

The subsequent annual inspection will, so long as the sanitary arrangements remain in working order, entail no expense beyond the annual subscription.

The following is a formal statement of the privileges of members. The annual inspection spoken of in the second paragraph will form the main business of the association. It is believed that no system of drains, or other sanitary appliances, can