FIG. 7.—Spores of Aspergillus glaucus, *a*, in the unripe, *b*, in the ripe condition. Alcohol, the glycerine and sulphide mixture three days. × 1640.

FIG. 8.—Cells, heterocyst (*h.*), and spore (*sp.*) of Cylindrospermum majus. Alcohol, the glycerine and sulphide mixture fourteen days. × 1640.

FIG. 9.—Three cells of a filament of Mierocoleus terrestris. Alcohol, the glycerine and sulphide mixture four days. × 2000.

FIG. 10.—*a*. Spores (immature), *b*, *c*, and *d*, basidia of a leucosporous Hymenomycete. *d*. Basidium with sterigmata and one attached spore. Sterile (?) element in *b*. Alcohol, the glycerine and sulphide mixture eight days. × 820.

FIGS. 11—13.—Portions of hyphæ of Hyphelia terrestris Fries, illustrating the development of the fructification, 13 *a* and *b* representing the simplest form. Alcohol, the glycerine and sulphide mixture three days. × 820.

FIGS. 14—18.—From the ovary of a specimen of Erythronium americanum hardened in alcohol. Fig. 14 illustrates the effect produced by diammonium sulphide and glycerine in two days; Figs. 15, 17, and 18 represent that produced by ammonium hydrogen sulphide and glycerine in the same time; and in Fig. 16 is shown how intense the reaction appeared after treatment for four days with the same reagent. × 1240.

FIGS. 19—22.—From the ovary of a specimen of Erythronium americanum hardened in alcohol. Sections treated for thirty hours with sulphuric acid alcohol, and mounted in a mixture of glycerine and ammonium hydrogen sulphide. × 1240.

FIG. 23.—Four hepatic cells from a specimen of Necturus lateralis. Alcohol, the glycerine and sulphide mixture eight days. × 620.

FIG. 24.—Two hepatic cells from the same animal, illustrating the distribution of the iron and the nuclear structure after they were treated with sulphuric acid alcohol for twenty-four hours, and mounted in a mixture of glycerine and ammonium hydrogen sulphide. × 620.

FIG. 25.—An example of Stentor polymorphus. Alcohol, the glycerine and sulphide mixture two weeks. × 305.

FIG. 26.—An example of Stentor polymorphus. Alcohol, Bunge's fluid thirty-seven hours, ammonium hydrogen sulphide and glycerine. × 305.

FIG. 27.—Examples of Vorticella sp. Alcohol, the glycerine and sulphide mixture seven days. × 600.

FIG. 28.—An example of Epistylis sp. Alcohol, Bunge's fluid twenty-four hours, glycerine and ammonium hydrogen sulphide. × 600.

FIG. 29.—An ovum of Ascaris mystax, fixed during impregnation. Only a portion of the ovum is represented. Alcohol, the glycerine and sulphide mixture eight days. × 820.