which equals the old group Gamopetalae. The classification may be tabulated as follows:

A. — Protophyta.
B. — Metaphyta.
II. Gamophyta.

(1) Thallophyta.
(2) Archaeophyta.
(3) Metaphyta.

a. Chalazanacese (a single genus Casuarina).

b. Porogamenae.

* Monocotyledones.

** Dicotyledones.

† Archichlamydeae.

†† Metachlamydeae.

While following the classification of Engler and Prantl to a large extent, Professor MacMillan takes issue with them upon some points. One of these is the nature of the Mycetozoa, or, as they are more commonly called, Myxomycetes. He believes them to be animals rather than plants. It is difficult for the present writer to see why the motility of the mass of these organisms, really the only animal-like feature they possess, should be regarded as very different in character from the motility of the spores of such universally recognized plants as Hydrodictyon, Oedogonium, Volvox, and others. If motility in conjunction with lack of chlorophyll be evidence of the animal character of the Myxomycetes, why should not the stationary Hydra, multiply-

(ing (as it can) when cut into small pieces, and possessing chlorophyll, be considered a plant? Or where are we to place Dionaea, Drosera, and the like, present movements analogous to, if not precisely the same as, the contractile powers of many animals? The hard and fast lines between the animal and the vegetable kingdoms have long since been broken down, and there is as much justice in placing Myxomycetes with vegetables as in placing Protista with animals. The fact of motility, the absence of chlorophyll, or both combined, can scarcely be sufficient to overbalance the preponderance of facts showing the distinct vegetable nature of the slime-molds.

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