

ADDITIONS TO THE FUNGI OF MADRAS—XIII

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Sclerospora graminicola (Sacc.) Schr.

Butler, E. J. .. *Mem. Dept. Agric. India, Bot. Ser.*, 1907, 2,
1, 24.

On *Panicum miliaceum* L. (Gramineæ) causing downy mildew, near Coimbatore, 24-5-51, T. S. Ramakrishnan.

Downy white growth of the conidial state was first noticed on both surfaces of the leaves and in the course of a fortnight the leaves turned yellow and then brown and the plants dried up in patches even before flowering. In some plants the symptoms were exhibited as yellowish long stripes. Ears were produced in some plants but the spikelets were chaffy and there was no grain setting. In most cases, whole plants were involved. In a few, partial infection of the plants was prevalent the rest of the plant forming normal ears. Shredding of the leaf was evident only rarely. Oospores were found in large numbers in the tissues of the leaves which had turned brown or become shredded.

The fungus closely resembles the one noticed on *Pennisetum typhoides* Stapf. and Hubb. in the measurements of the sexual and asexual reproductive bodies. The rapidity with which the disease spread over the whole field and the partial infection of several plants indicated that besides primary infection secondary spread through the agency of the sporangia should have taken place.

Pseudoperonospora cubensis (Berk. and Curt.) Rost.

Butler, E. J. .. *Fungi and disease in plants*, 1918, 311.

On leaves of *Luffa acutangula* Roxb. (Cucurbitaceæ), Coimbatore, 25-12-51, T. S. Ramakrishnan.

This fungus causes the downy mildew of several cucurbitaceous hosts. In Siddout (Cuddapah District) melon (*Cucumis melo* L.) is often affected by this fungus. At Coimbatore, the same fungus was recorded on *Cucumis sativus* L., *Trichosanthes anguina* L. and *Cucumis melo*. In order to find out