infect maire by C. graminicola isolates taken from sorghum, while others' succeeded. Probably a number of taces exist in these pathogens'.

The new taxa C. graminicola var. zonatum, reported here is one of the first fungi to colonise the downy milden infected leaves. One of us had noticed this fungus (along with C. graminicola) producing epidemics on sorghum plants which are subjected to flooding by cyclonic rains in coastal Andhra Pradesh. The foliage as well as the earheads, including grains, were reddened with these infections.

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## REPORT ON FUSARIUM WILT IN PINUS KESIYA ROYLE

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Pinus kesiya Royle is the main source of timber and fuel at higher altitudes of Meghalaya. It has been observed during the last three years that when soil temperature and humidity is high (June-July) the newly emerging seedlings get infected with a white mycelial fungus which causes heavy seedling mortality within 15-25 days of their germination. This could be visually observed in the pine forest floor in the form of prostrate seedlings heavily infested with white mycelium. On isolation the Organism involved was identified to be Fusarium oxysporum (Schl.) emend Snyd and Hans.

pathogenicity tests were carried out by sowing surface sterilized healthy seed, of P. kesiya in pots containing soil earlier inoculated with the fungus. In another experiment the surface sterilized pine seeds



Fig. 1

were transferred to sterilized moist chambers pre-inoculated with the fungus. It was observed that in pot culture the seedlings emerged successfully and after their establishment, the fungus attacked the cortical region of the stem base and exhibited the symptoms of chlorosis. Soon after a visible wilting of the seedlings was observed. In the moist chamber experiment, just after the germination, the plumule and radicle were attacked by the fungus and thereafter the seedlings grew abnormally and could survive upto 7-10 days (Fig. 1).

The species of Fusarium have been reported to be distributed in soils and are known to cause will disease of vascular plants<sup>1-1</sup> however, F. oxysporum is a new record for P. kesiya Royle.

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## CHROMATIC ADAPTATION IN MERISMOPEDIA MINIMA AT TWO DEPTHS IN DAMDAMA LAKE

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During a limnological survey of some fresh water bodies in and around Delhi State, water samples