

MORPHOLOGICAL AND BIOCHEMICAL STUDIES IN HEALTHY AND INFECTED PLANT PARTS OF *ORYZA SATIVA*

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Abstract: Pollen morphology is a very minute structure encloses in it the entire body of plant. It contains all genetic information for a complete plant. It has great significance particularly in plant taxonomy. Results of present investigation revealed the effect of infection on the uptake rates of total N and P and its distribution in selected plant parts clearly define the nutritional aspects and role of macronutrients and pigments in growth and development. Our observation indicates that non-acetolysed pollen grains of *Oryza sativa* show reduction in size as compared than that of acetolysed pollen grains. Likewise total N, P and chlorophyll content uptake and its distribution in plant parts decline in infected plant parts as compared to healthy plant parts as in stem, leaf, anther & pollen grains.

Keywords: Acetolysis, Fungal infection, Pollen grain, Rice, Total N .P., Chlorophyll development

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