**研讨会摘要模板：**

**A mannose-binding lectin like protein may function as a receptor of chitinase of *Magnaporthe oryzae* to trigger the plant immunity**

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The chitinases play roles of the maintenance of cell wall plasticity in fungi. However little is known about their involvement in host-parasite interaction. In this report, we found that a chitinase (MoChi1) from the rice blast fungus *Magnapothe oryzae* may function as a pathogenic factor. Knock-out and over-expression MoChi1 in *M. oryzae* resulted in reduced disease lesion expansion in host plant. And intriguingly, different from the normal morphology of MoChi1 mutant, the MoChi1 over-expression mutants exhibited white colonies and autolysis as well, which usually happened when nitrogen sources changed in medium. To further characterize the functions of MoChi1 in *M.oryzae*-rice interaction, a mannose-binding lectin protein OsMBL1 was pulled out as a potential receptor of MoChi1 from Y2H screen and pull-down assay. The transcription of OsMBL1 was rapidly and dramatically induced when plants were inoculated with *M. oryzae*, as well as treated by SA and Me-JA. Over-expression of OsMBL1 in rice led to be more resistant to be the fungal infection. In summary, our data indicated that OsMBL1 may function as a receptor of MoChi1 and play an important role in rice defense to rice blast.