**Nitrogen Induced Susceptibility (NIS)**

- **Excessive N fertilization increases Rice Blast severity**
- **NIS varies with the plant genotype**

Magnaporthe oryzae is more aggressive with an N excess, over-passing plant defenses

**Hypotheses:**

- **NIS could be correlated with a NUE component**
- A particular component could trigger a signal causing a increase of the aggressivity of the blast fungus
- This signal could be related with the nitrogen flows

**Conclusion and outlooks**

- There is a huge phenotypical diversity of nitrogen using in our japonica population.
- It appears NIS and Eff\_post could be linked. The real correlation remains to be established
- Samples have been collected in different nitrogen treatments, biochemical and transcriptomic analysis are ongoing. A marker linking NIS and Eff\_post could be found. We will test blast behavior in vitro face to several metabolites according to that results

**References:**