

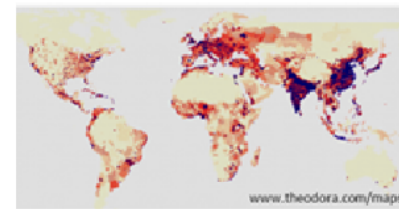
Study the genetic component of the organisms

- Genome sequencing
- Sequence characterization
- Applied projects

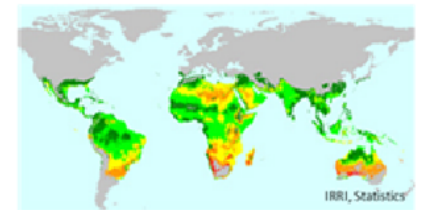
We need to feed 9 billion people!



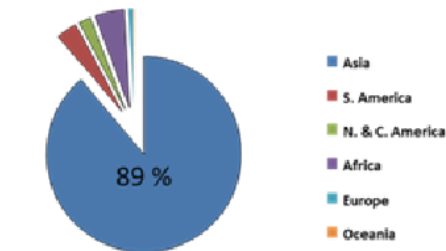
Rice is one of the most important crops in the world



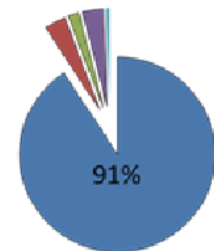
Distribution of human population (density)



Rice production by regional areas

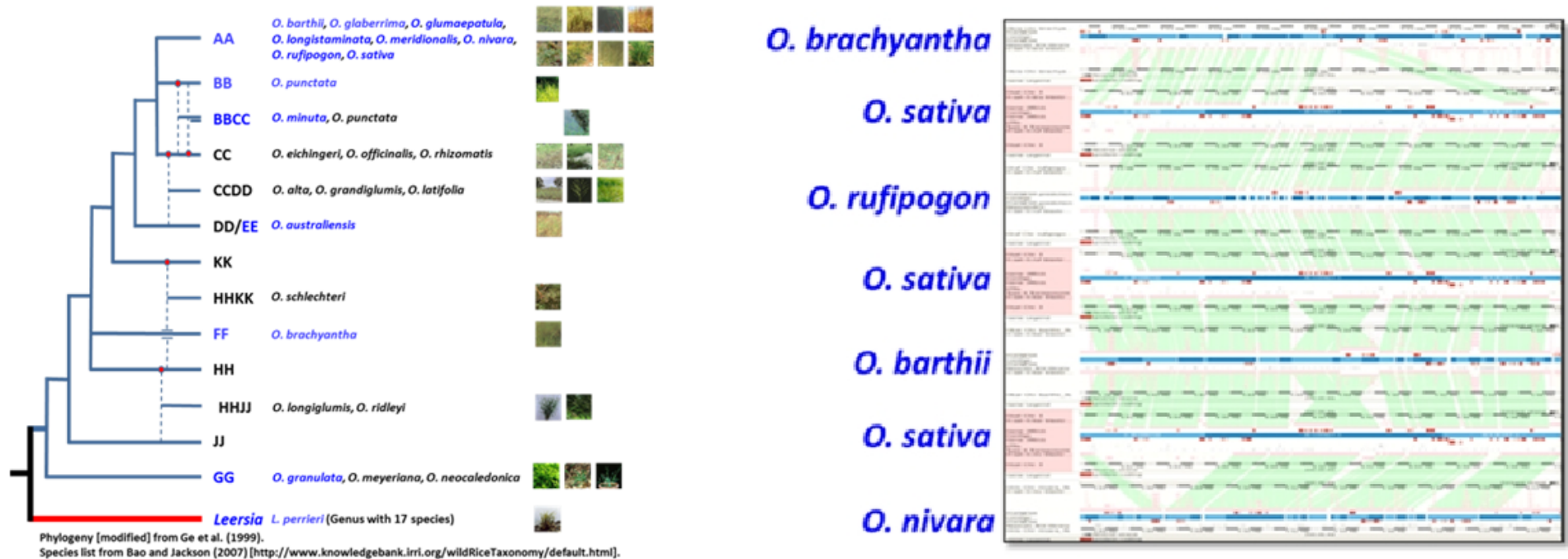


Global rice consumption (2008)



Global rice production (2008)

Moving beyond one species – the Oryza Genome Evolution project



Phylogenetic tree of *Oryza* and sister genus *Leersia*

Compara Gene Trees give evolutionary history, ortholog prediction, & protein

