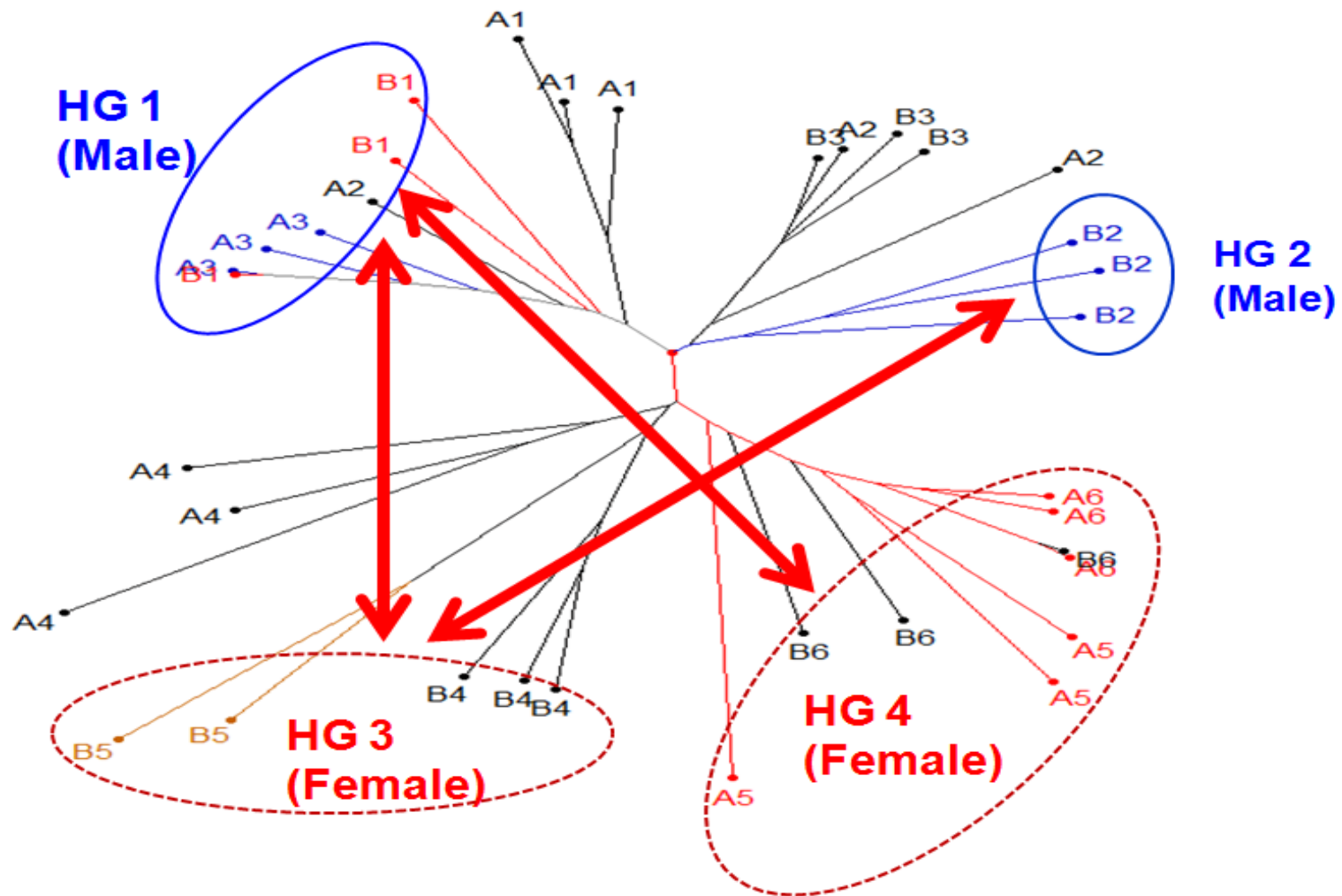


# Study of heterotic groups for tropical indica rice

*What have been done:*

Molecular markers + Field evaluation at multiple locations, 5 years

## Heterotic Groups of Tropical Indica Rice



**4 Heterotic Groups, 3 Hybridization Patterns**

## **Details:**

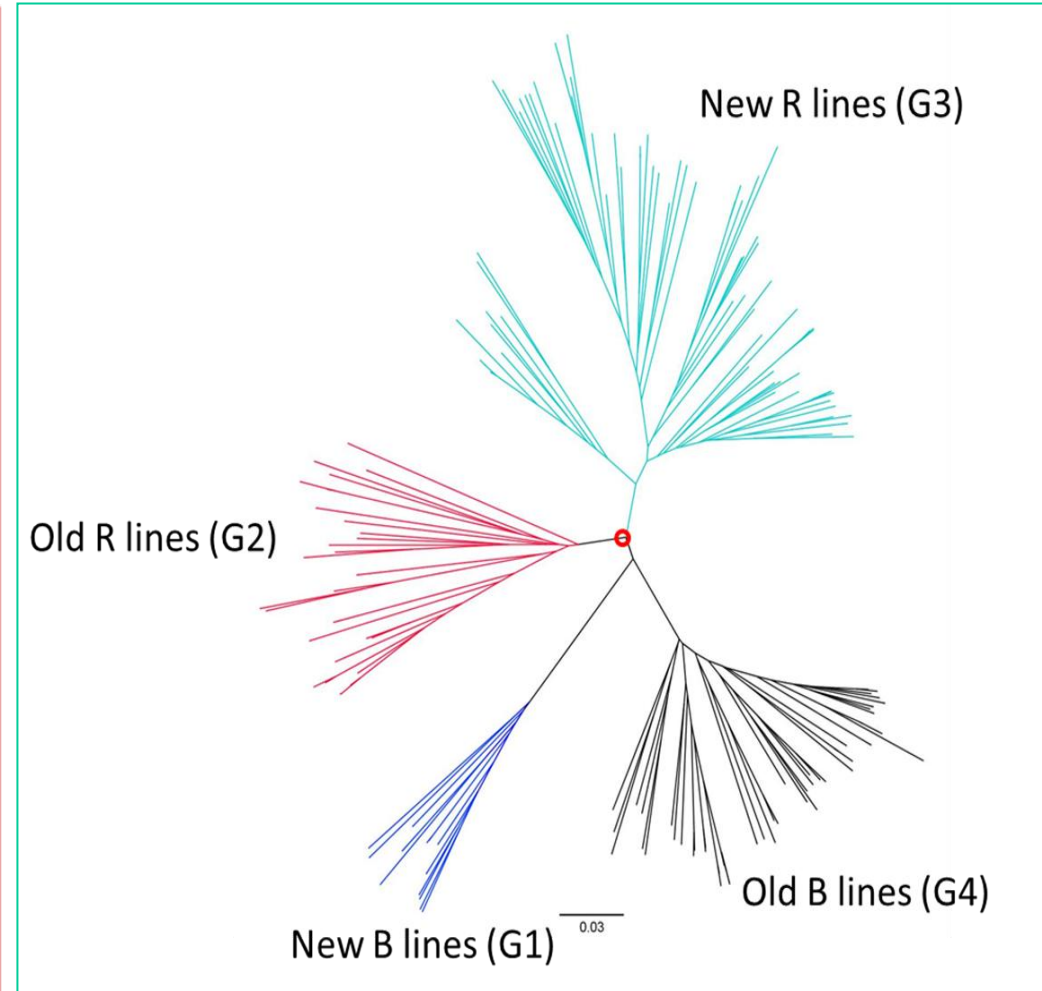
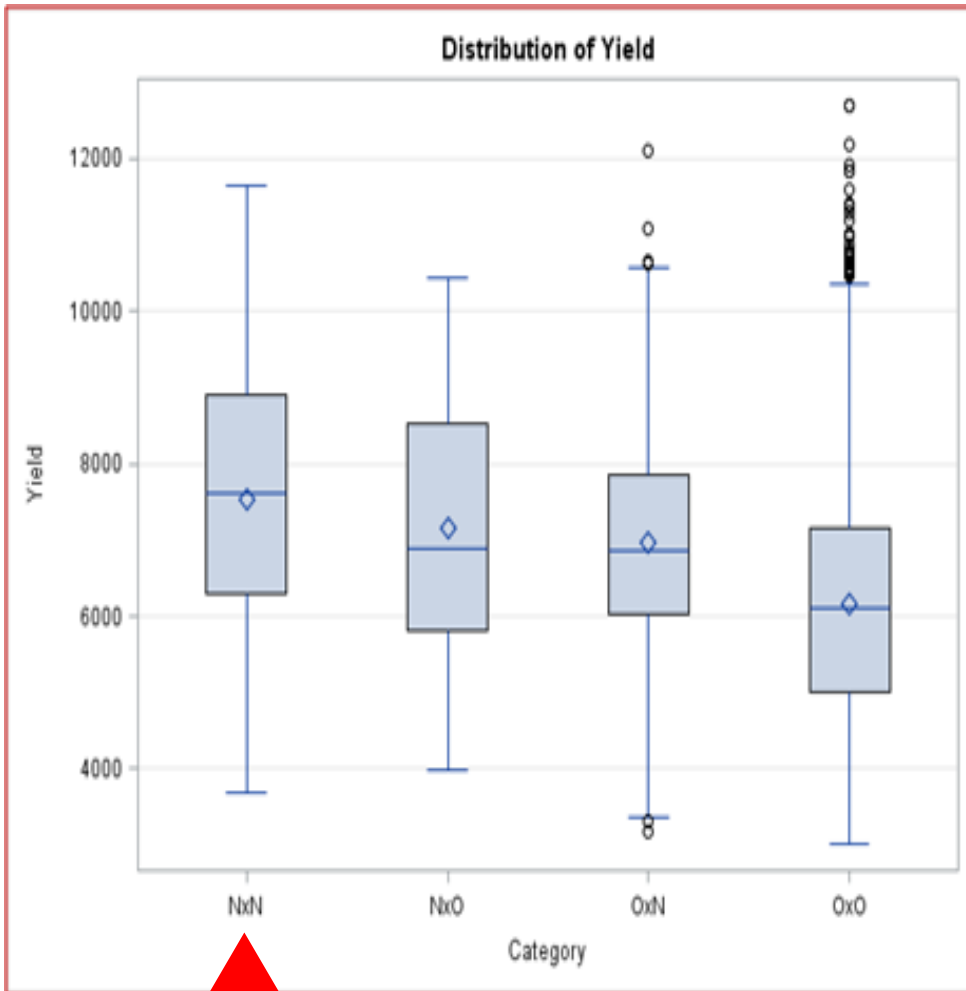
**F. Xie etc., 2014. Determination of heterotic groups for tropical Indica hybrid rice germplasm, *Theor Appl Genet.* 127(2):407–417**

**K. Wang etc., 2015. Heterotic groups of tropical indica rice germplasm. *Theor Appl Genet.* 128(3), 421-430**

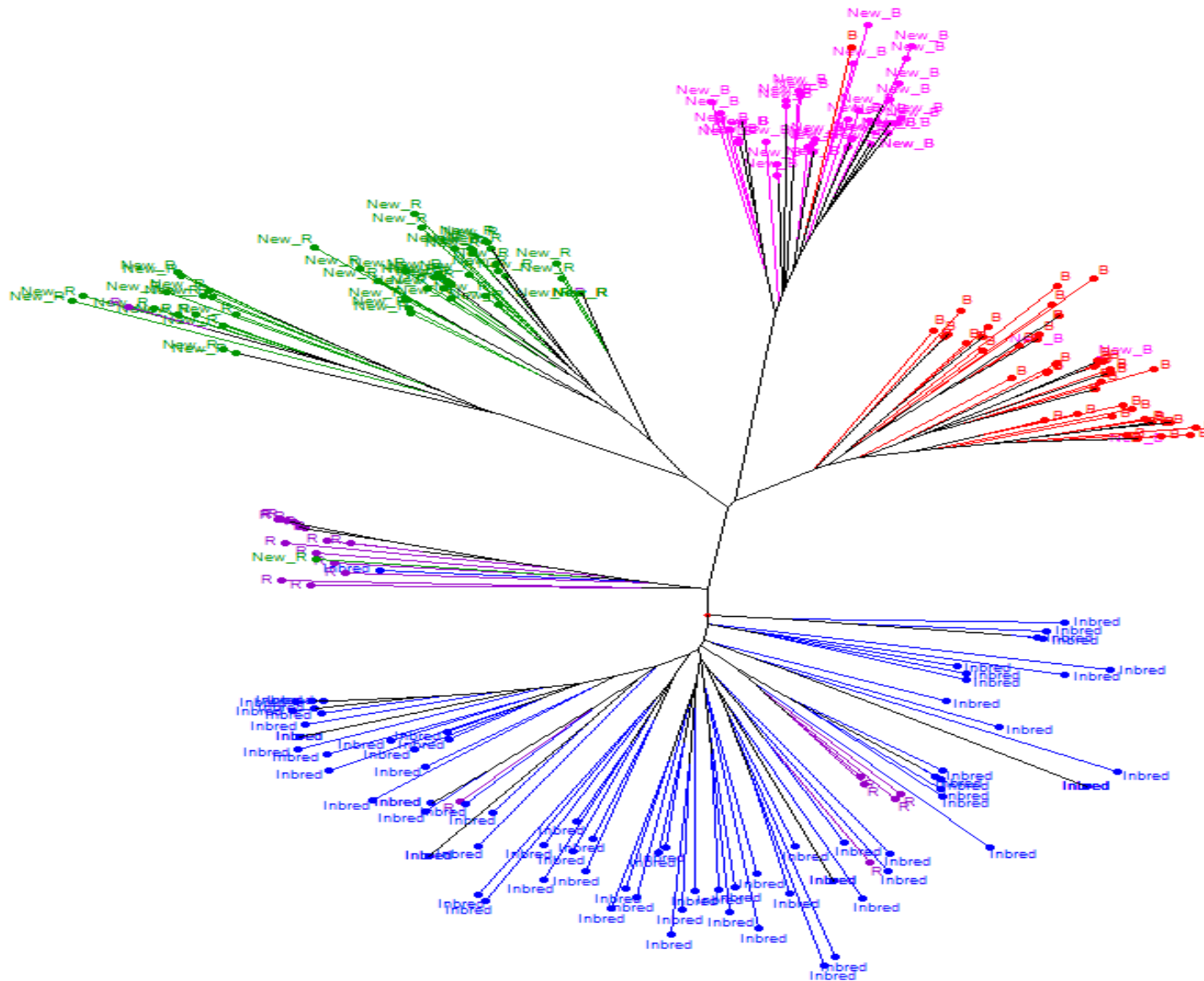
***On-going:***

# **IRRI Hybrid Yield Increased with New Parents**

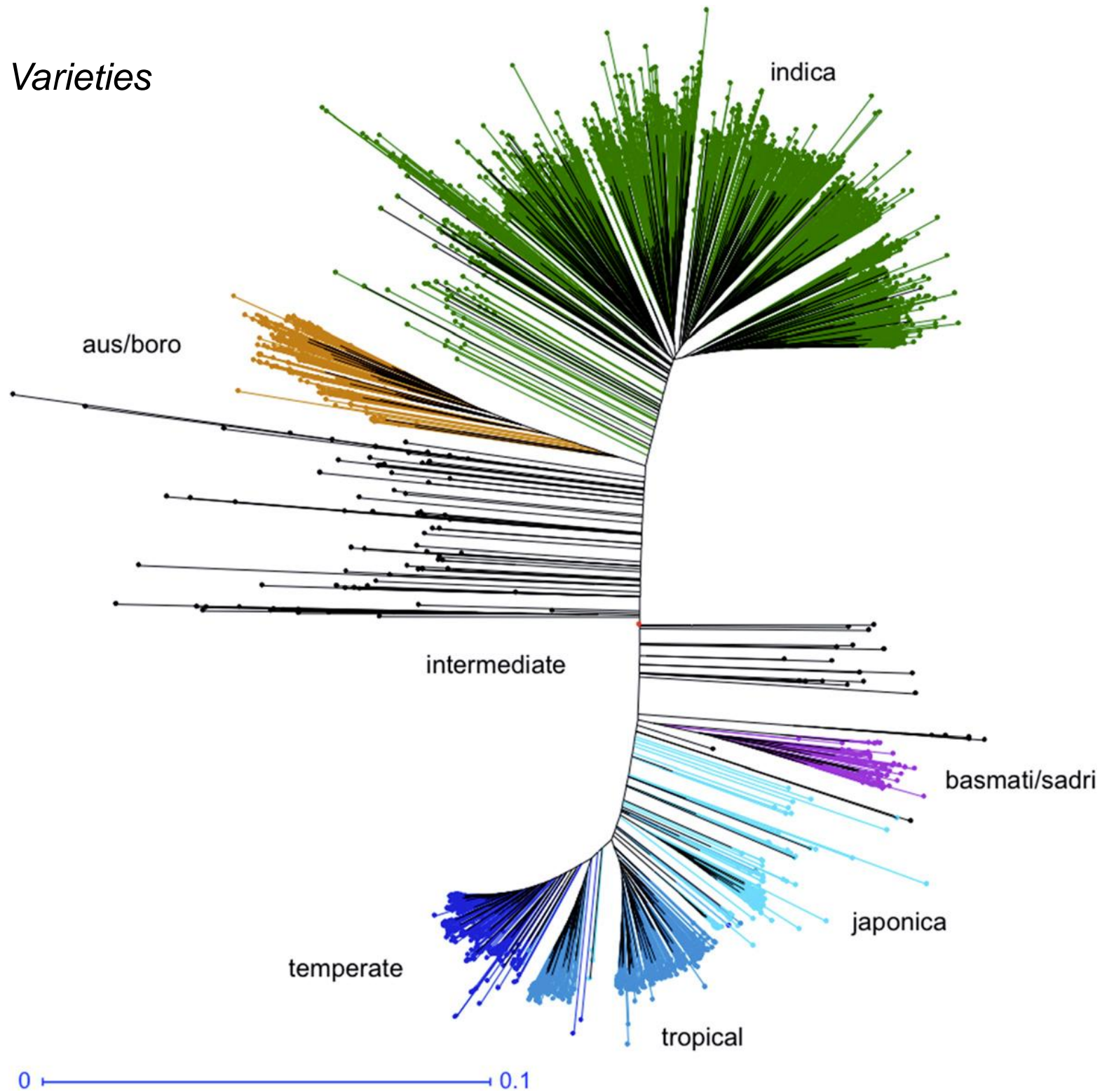
(cut-off of new and old = 2005)



**On-going:**  
**Heterosis between PhilRice Inbreds and IRRI hybrid rice parents**

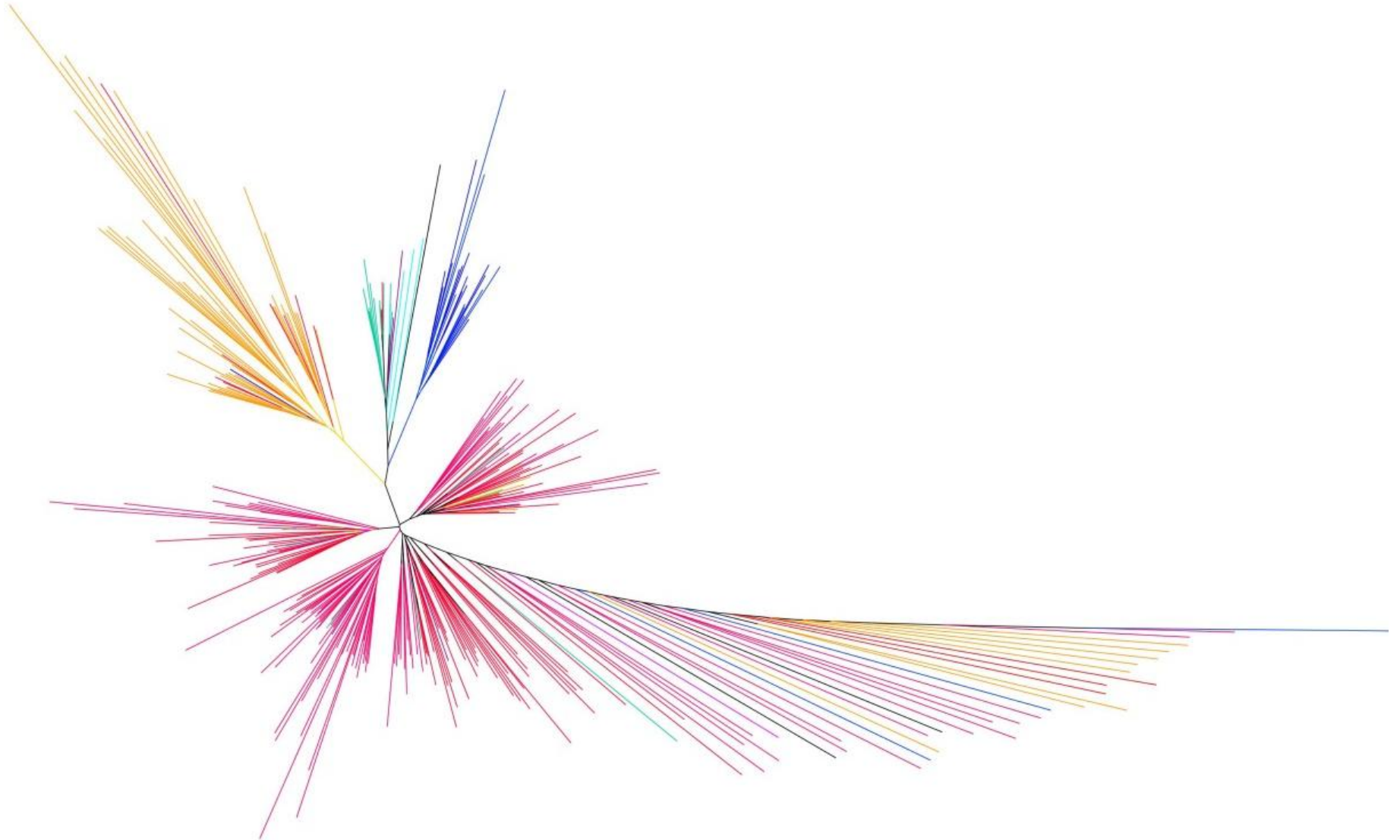


# 3K Rice Varieties



***On-going:***

**Heterosis of indica germplasm with 200k SNP markers**



# Proposal for further study with members

1. What heterotic response in your germplasm?
2. Which group(s) of your materials belong to?
3. How to produce the best heterosis?

## Advantage:

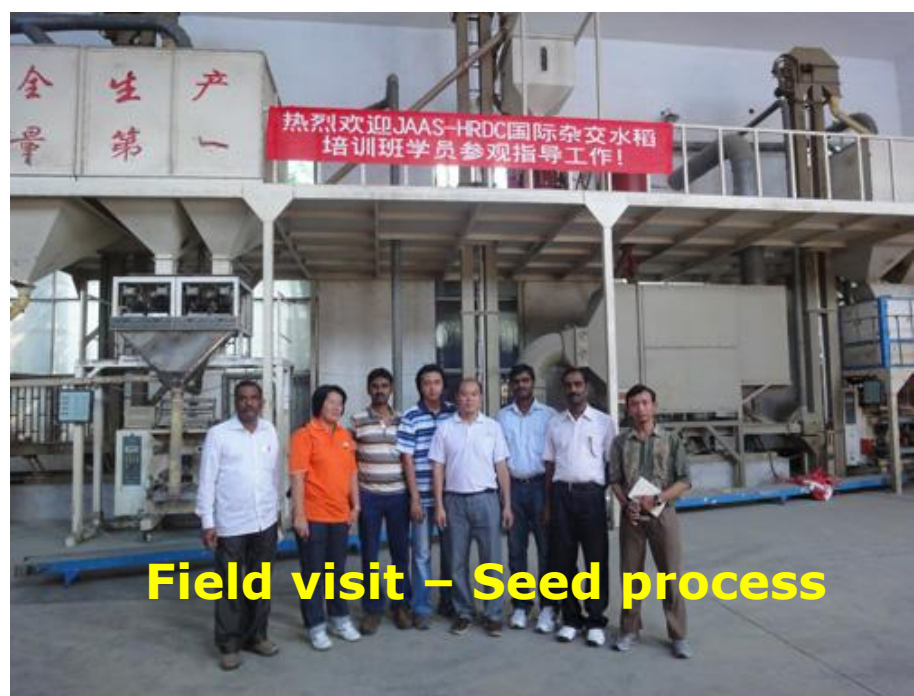
1. Have a marker database (reference);
2. Divergent IRRI germplasm (hybrid and inbred)

**Study with individual members**



# HRDC Hybrid Rice Training

(2010 – 2013 with 40 participants)





## **Proposal for 2015 Hybrid Rice Training**

- **Continue the model of JAAS + HRDC**
- **Full cost shared among participants + 10% from HRDC**
- **A minimum of 8 for cost efficiency**
- **Course start: late June for 2 weeks**
- **Deadline for registration: [April 15, 2015](#)**

***[Contact: Annie or Charisse](#)***

**THANKS**