

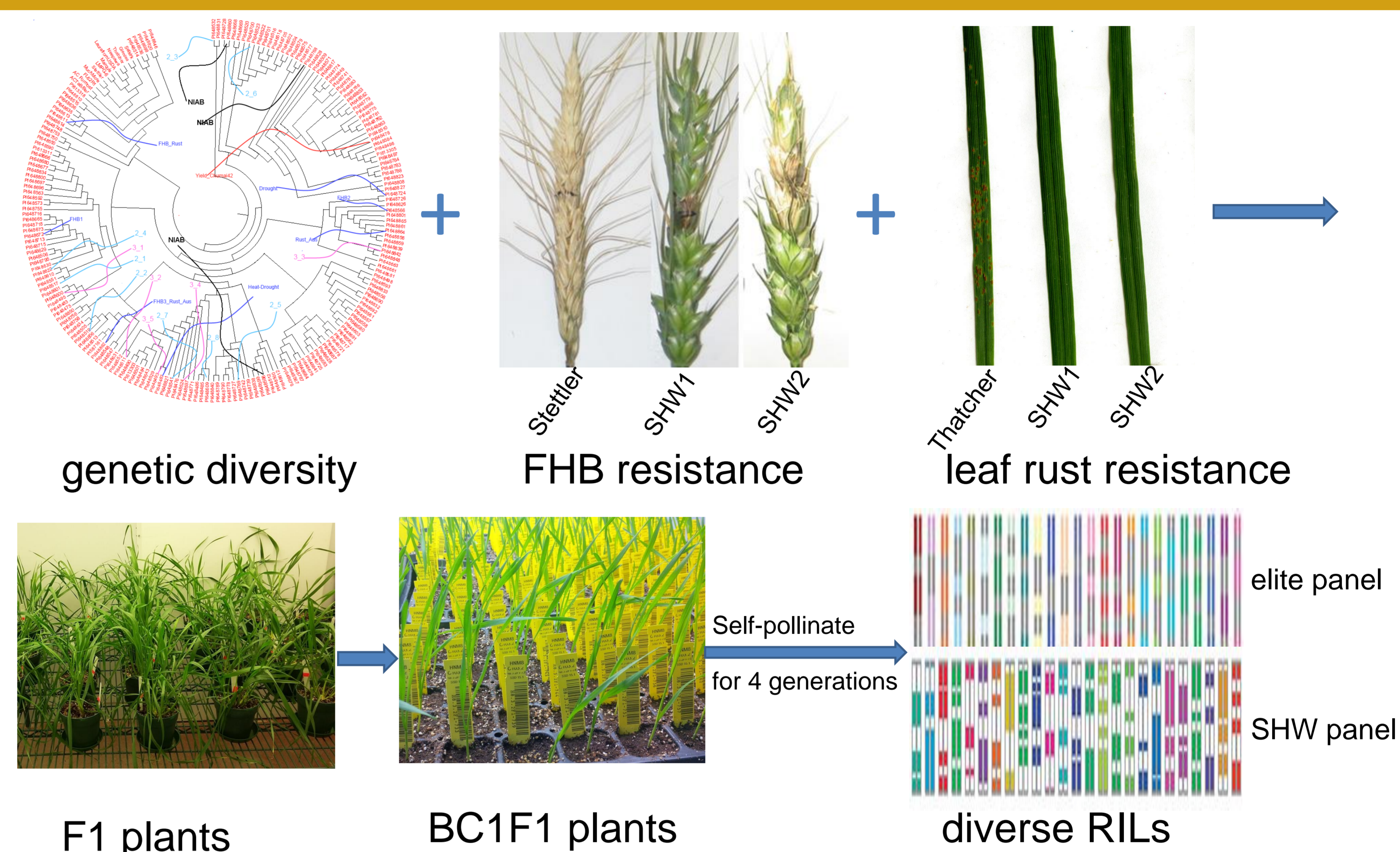
Improving Genetic Diversity in Wheat: Development of NAM Resources

Objective: To enrich wheat gene pools with novel genetic variation for improvement of wheat performance in response to disease and climate change

Outputs thus far: A next generation genetic platform is being established using nested association mapping (NAM) approach. Stettler is used as a common parent and crossed with 25 elite lines and 25 diverse synthetic hexaploid wheat (SHW) donors. A total of 4,700 recombinant inbred lines (RILs) are being developed.

Impact: Valuable resource for 1) identifying diagnostic marker for priority traits; 2) enhancing the diversity of elite germplasms with performance improvement

Deployment path: Establishment of NAM platform as a key resource for CWA partners and wheat research community



Delivery date: 2017

Resources committed: ~990K over 5 years

Opportunity for collaboration: Breeding for sustainable wheat improvement

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