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Research Areas:

- Heat tolerance in wheat
- Water use efficiency in rice
- Grain micronutrient content in cereals
- Nutrient use efficiency in cereals
- Biochemical constraints to productivity in crops

How can we detect conditions and changes on the fundamental bases of our bodies? How do these conditions differ between cultures?

Cultures develop in specific conditions in a particular geographical location. Weather, availability of water, availability of food, interaction with outside cultures and many more factors dictate food habits, dress, social behavior, languages etc. Dominant cultures influence subordinate cultures and this oculturation of cultures reflects in every aspect of life. Globalisation and climate change together is going to reflect in cultural changes, migration, economic as well as socio political in nature will lead to cross fertilization of cultures. The cultural melting pots will be all around the world and this will also come the introduction of new diseases and redistribution of existing diseases. Changing climate will offer new opportunities to opportunistic infections and the developed countries will be in a better position to absorb climatic shocks. Even the standard physiological parameters of particular races will change in long term.

Which specific contribution does your scientific discipline offer to understand the most important global changes better?

Changing temperature pattern will usher in climatic change. Temperature, humidity in the air, soil condition will change the crop pattern and the availability of food changes everything right from physiological parameters to cultural changes. My work on heat resistant cultivars will add to adaptability of the crops by cross breeding heat tolerant cultivars and hence absorbing the climate shock.