

## PAU to conduct multidisciplinary research project with the UK

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A multi-institutional, multidisciplinary research project entitled "Transforming India's Green Revolution by Research and Empowerment for Sustainable Food Supplies (TIGR2ESS)" has been awarded to teams of Indian and United Kingdom (UK) scientists.

The project comprises six different flagship programs (FP) addressing different agriculture related issues in India. FP 1 aims to tackle the requirements of second green revolution in India, leading to policy output. FP 2 and 3 collectively aim at use of fundamental scientific approaches to address key issues in crop sciences. FP 4 & 5 targets water use efficiency for sustainable cropping systems and Flagship program 6 aims to undertake research to promote gender equality in terms of opportunities and education in rural communities.

A total of nine institutes from UK and equal number from India are collaborating for catalysing second green revolution in India. Punjab Agricultural University (PAU) is an important partner in TIGR2ESS for FP3 and FP5.

Dr Achla Sharma from Wheat Section, Department of Plant Breeding & Genetics and Dr Parveen Chhuneja, Director, School of Agricultural Biotechnology will spearhead the research team to develop the wheat germplasm for improved tolerance to heat and drought stress by combining genomics enabled precision plant breeding with physiological, agronomic, and biochemical interventions in coordination with UK scientists under FP3.

Dr Sandeep Kapur, Professor of Business Management along with his team will be working to analyse, design and operate alternative food supply network models enabled by digital supply chain technologies to support a more resilient, resource efficient food system and sustainable water use in India.

