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Have a break: how to decipher Spo11.2 role in *Triticum aestivum?*

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Introduction

Spo11.2 protein is part of the Spo11 complex that initiates meiotic recombination in plant (1). Spo11.2 role is well-documentated in diploid species but remains unknown in polyploid species (3). The objectives of this study were to decipher the Spo11.2 protein's role in the hexaploid bread wheat (*Triticum aestivum* L., AABBDD; 2n = 6X=42) using simple, double and triple mutants. We compared them between each other at different meiotic scales: phenotype, pollen integrity and meiosis progression (Part 1); homologous recombination (Part 2); genomic and transcriptomic sequences (Part 3).





