

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

Fatiha Benyahya, Isabelle Nadaud, Ludovic Georges, Alain Loussert, Isabelle Lhommet, Hélène Rimbert, Philippe Leroy, Pierre Sourdille

### ► To cite this version:

Fatiha Benyahya, Isabelle Nadaud, Ludovic Georges, Alain Loussert, Isabelle Lhommet, et al.. Have a break: how to decipher Spo11.2 role in Triticum aestivum?. EMBO Meiosis Workshop 25th-29th August 2019 La Rochelle, Aug 2019, La Rochelle, France. hal-04284850

### HAL Id: hal-04284850 https://hal.science/hal-04284850

Submitted on 14 Nov 2023

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



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

#### Fatiha Benyahya<sup>1,2</sup>, Isabelle Nadaud<sup>1</sup>, Ludovic Georges<sup>1</sup>, Alain Loussert<sup>1</sup>, Isabelle Lhommet<sup>1</sup>, Hélène Rimbert<sup>1</sup>, Philippe Leroy<sup>1</sup>, Pierre Sourdille<sup>1</sup>

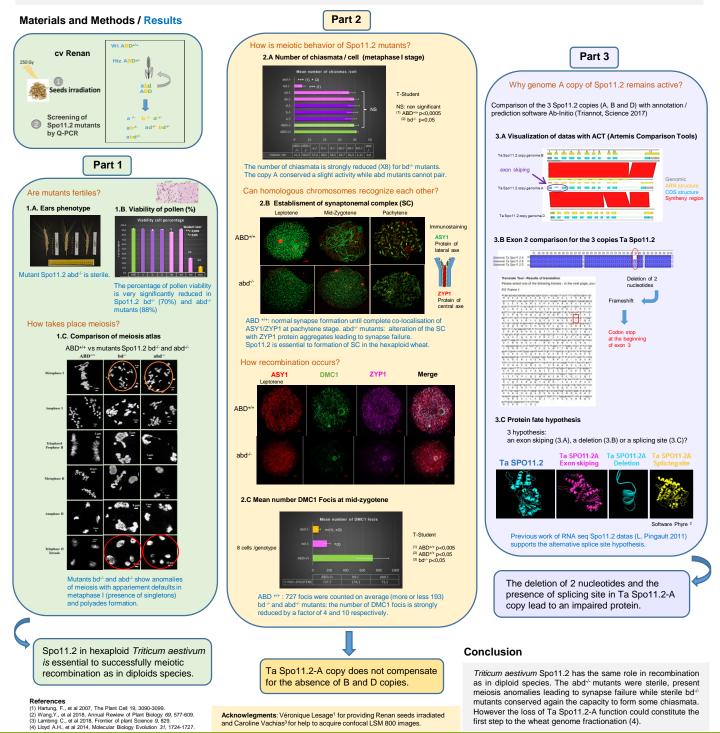
<sup>1</sup> UMR INRA / UCA 1095 Unité GDEC, 5 chemin de beaulieu 63000 Clermont-Ferrand, France

<sup>2</sup> UCA 24 avenue des Landais 63170 Aubière, France

<sup>3</sup> CRBC Plate-forme CLIC faculté de médecine, 28 place Henri Dunant 63000 Clermont-Ferrand, France

#### 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).





EMBO Meiosis Workshop 25<sup>th</sup>-29<sup>th</sup> August 2019 La Rochelle

