

Instituto de Biología Funcional y Genómica

Programa de Seminarios Externos

"Dionisio Martín Zanca"

2023 - 2024

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The secret of safe sex: the control of meiotic recombination

Abstract

Recombination-mediated linking of homologous chromosomes is a hallmark of meiosis that enables the halving of chromosomal ploidy in sexual life cycles. Meiotic recombination is initiated by programmed DNA double-strand breaks (DSBs) generated by the type II topoisomerase-related SPO11 enzyme. The meiotic chromosomal axes exerts critical control over SPO11 activity and recombination, which is essential for germline genome integrity. I will present our recent discoveries of chromosome axis-linked mechanisms that control recombination initiation, ensuring efficient pairing of homologous chromosomes while preventing excessive DNA damage to the germline genome.

Viernes **10** **2024**
Mayo **2024**

Hora: 12:00 pm

Lugar: Salón de actos del IBFG

Web: <https://ibfg.usal-csic.es/semext.php>

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