

Graduate Schools
Infection & Immunity and Biology & Medicine

Seminars in Microbiology

Monday, 27 January, 2014

Salle de séminaire 7172, CMU

11:30 – 12:30

Prof Nigel Savery

University of Bristol, UK



Coupling transcription to DNA repair through molecular motors

Nigel Savery's group is studying transcription-coupled DNA repair that results in a faster repair than by the general nucleotide excision repair. This is presumably due to the interaction of the different machineries in transcription and repair. One of the key enzymes in this process is the translocase Mfd. Using single-molecule experiments in collaboration with the Strick group (Inst Jacques Monod) they study the role of Mfd in removing the transcription complex from the damaged DNA and to serve as a molecular signal for the DNA damage.

Manelyte et al., Mol. Cell 40, 714-724, 2010

Howan et al., Nature 490, 431-434, 2013.

Contact: P.Linder

Sandwiches will be offered after the seminar