

P020 The C-terminal domain of Cernunnos/XLF is dispensable for DNA repair *in vivo*

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The core Non Homologous End-Joining (NHEJ) DNA repair pathway is composed of seven factors: Ku70, Ku80, DNA-PKcs, Artemis, XRCC4 (X4), DNA Ligase IV (L4) and Cernunnos/XLF (Cernunnos). Although Cernunnos and X4 are structurally related and participate in the same complex together with L4, they have distinct functions during DNA repair. L4 relies on X4 but not on Cernunnos for its stability and L4 is required for optimal interaction of Cernunnos with X4. We demonstrate here using *in vitro* generated Cernunnos mutants and a series of functional assays *in vivo* that the C-terminal region of Cernunnos is dispensable for its activity during DNA repair.