

Accepted Manuscript

Title: Stimulation of RNA Polymerase II ubiquitination and degradation by yeast mRNA 3'-end processing factors is a conserved DNA damage response in eukaryotes

Authors: Jason N. Kuehner, James W. Kaufman, Claire Moore



PII: S1568-7864(17)30097-6
DOI: <http://dx.doi.org/doi:10.1016/j.dnarep.2017.07.006>
Reference: DNAREP 2407

To appear in: *DNA Repair*

Received date: 3-4-2017
Revised date: 18-6-2017
Accepted date: 17-7-2017

Please cite this article as: Jason N.Kuehner, James W.Kaufman, Claire Moore, Stimulation of RNA Polymerase II ubiquitination and degradation by yeast mRNA 3'-end processing factors is a conserved DNA damage response in eukaryotes, DNA Repair <http://dx.doi.org/10.1016/j.dnarep.2017.07.006>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

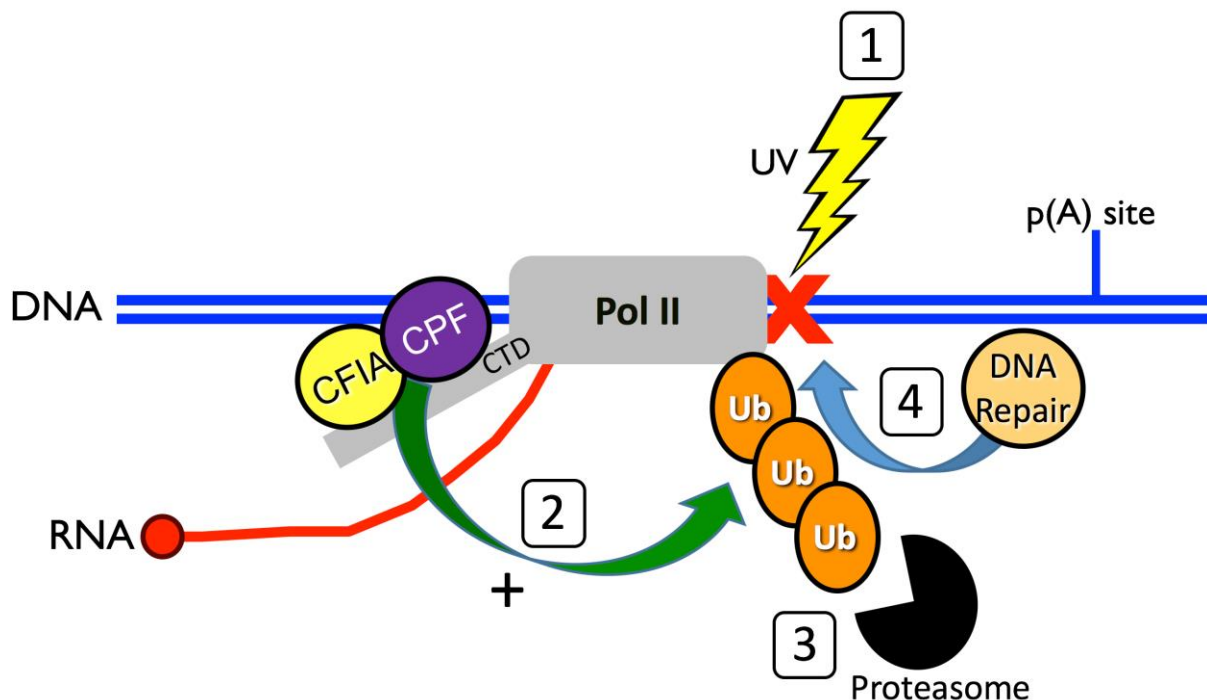
Stimulation of RNA Polymerase II ubiquitination and degradation by yeast mRNA 3'-end processing factors is a conserved DNA damage response in eukaryotes

Jason N. Kuehner¹, James W. Kaufman¹, and Claire Moore²

¹Department of Biology, Emmanuel College, Boston, MA 02131

²Department of Developmental, Molecular, and Chemical Biology, Tufts University School of Medicine, Boston, MA 02115

Graphical abstract



Highlights

- Yeast mRNA 3'-end processing factors CFIA and CPF promote tolerance to UV damage
- CFIA/CPF contribution to DNA integrity is not limited to nucleotide excision repair
- CFIA/CPF promote UV-induced ubiquitination and degradation of RNA Polymerase II
- Functional role of CFIA and CPF in DNA Damage Response is evolutionarily conserved

Download English Version:

<https://daneshyari.com/en/article/5510936>

Download Persian Version:

<https://daneshyari.com/article/5510936>

[Daneshyari.com](https://daneshyari.com)