

# 1 Title

IMPORTANCE:

# 2 Author

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In this study, we compared the effects of pro- and antagonist (ANT) and antagonist (AT) induction on DNA damage and mucosal integrity.

Results: Pro- and antagonist (ANT) and antagonist (AT) induction of proteolytic enzymes are associated with inflammation and inflammation-induced apoptosis; and treatment with DMSO-1 (DMSO-2) in the treatment of *C. elegans* with different strains of *C. elegans* revealed that the proteolytic enzymes were not affected by the treatment of the cells with DMSO-1. Moreover, the apoptotic pathways of the cells with DMSO-1 were not affected.

Conclusion:

*C. elegans* has been shown to interact with O-TNF- in a manner that is not previously known. D-AMP-1 was shown to induce apoptosis of human cells in vitro, and the apoptotic pathway was not impaired by D-AMP-1 treatment. There is evidence that D-AMP-1 is a receptor for O-TNF-. Although this mechanism cannot be confirmed, it is clear that D-AMP-1 has been shown to interact with O-TNF- in vivo and that it has important intracellular targets for O-TNF-.

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