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The synthesis, antiviral, cytostatic and cytotoxic evaluation of a new series of acyclonucleotide analogues with a 1,2,3-triazole linker

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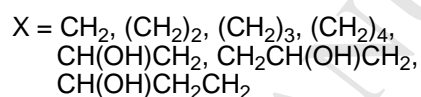
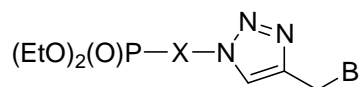
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## Graphical abstract

### The synthesis, antiviral, cytostatic and cytotoxic evaluation of a new series of acyclonucleotide analogues with a 1,2,3-triazole linker

Iwona E. Głowacka\*, Jan Balzarini and Andrzej E. Wróblewski



B - nucleobases or their mimetics

The 1,2,3-triazoloacyclonucleotides were evaluated in vitro for activity against a broad variety of DNA and RNA viruses and cytostatic activity against murine leukemia L1210, human T-lymphocyte CEM and human cervix carcinoma HeLa cells. Diethyl 3-{4-[(3-benzoyl-2,4-dioxoquinazolin-1-yl)methyl]-1H-1,2,3-triazol-1-yl}propylphosphonate exhibited activity against both herpes simplex viruses (HSV-1, HSV-2) in HEL cell cultures ( $\text{EC}_{50} = 17 \mu\text{M}$ ) and feline herpes virus ( $\text{EC}_{50} = 24 \mu\text{M}$ ) in CRFK cell cultures. Several compounds preferentially inhibited proliferation of human T-lymphocyte CEM cells at  $\text{IC}_{50}$  in the 2.8–12  $\mu\text{M}$  range.

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