





NOMENCLATURE

BASE	NUCLEOSIDE	ABBR.
adenine	adenosine	А
guanine	guanosine	G
cytosine	cytidine	С
uracil	uridine	U
thymine	thymidine	т

A nucleoside or nucleotide is named according to its nitrogenous base. Single letter abbreviations are used variously as shorthand for (1) the base alone, (2) the nucleoside, or (3) the whole nucleotidethe context will usually make clear which of the three entities is meant. When the context BASE + SUGAR = NUCLEOSIDE is not sufficient, we will add the terms "base", "nucleoside", "nucleotide", or-as in the examples below—use the full 3-letter nucleotide code. AMP = adenosine monophosphate dAMP = deoxyadenosine monophosphate

UDP = uridine diphosphate ATP = adenosine triphosphate

BASE + SUGAR + PHOSPHATE = NUCLEOTIDE

sugar

sugar

base

base

NUCLEIC ACIDS

Nucleotides are joined together by a phosphodiester linkage between 5' and 3' carbon atoms to form nucleic acids. The linear sequence of nucleotides in a nucleic acid chain is commonly abbreviated by a one-letter code, A—G—C—T—T—A—C—A, with the 5' end of the chain at the left.



NUCLEOTIDES HAVE MANY OTHER FUNCTIONS

