

# Pyrimidine Ratio

## Chargaff's rules (redirect from Base ratio)

equal to the amount of thymine. Further, a 1:1 stoichiometric ratio of purine and pyrimidine bases (i.e.,  $A+G=T+C$ ) should exist. This pattern is found in...

## Uracil (redirect from 2-oxy-4-oxy pyrimidine)

demethylated form of thymine. Uracil is a common and naturally occurring pyrimidine derivative. The name "uracil" was coined in 1885 by the German chemist...

## Nucleic acid metabolism (category Pyrimidines)

to one of two categories: purines or pyrimidines. In complex multicellular animals, both purines and pyrimidines are primarily synthesized in the liver...

## Orotate phosphoribosyltransferase (redirect from Pyrimidine phosphoribosyltransferase)

(OPRTase) or orotic acid phosphoribosyltransferase is an enzyme involved in pyrimidine biosynthesis. It catalyzes the formation of orotidine 5'-monophosphate...

## Transversion (section Ratio of transitions to transversions)

which a single (two ring) purine (A or G) is changed for a (one ring) pyrimidine (T or C), or vice versa. A transversion can be spontaneous, or it can...

## Satellite DNA

one or two base pairs with A (purine) interrupting the pyrimidine-rich strand and T (pyrimidine) interrupting the purine-rich strand. These interruptions...

## Hoogsteen base pair

a pyrimidine base (C/T) uses its Watson–Crick (anti, N3–C4) face to bind the syn (N6–N7) face of a purine (A/G). Adenine, which is not a pyrimidine, is...

## Nicotinamide adenine dinucleotide

Reiss PD, Zuurendonk PF, Veech RL (1984). "Measurement of tissue purine, pyrimidine, and other nucleotides by radial compression high-performance liquid chromatography";...

## Heavy strand

excess of pyrimidines in the other strand and vice versa. Statistically, there is more likely to be such an imbalance than an exact 50/50 ratio. In addition...

## Uridine monophosphate synthase

PMID 8650301. {{cite book}}: |journal= ignored (help) Jones ME (1980). "Pyrimidine nucleotide biosynthesis in animals: genes, enzymes, and regulation of...

## Tegafur/gimeracil/oteracil (category Pyrimidine antagonists)

similar to pyrimidine. Pyrimidine is part of the genetic material of cells (DNA and RNA). In the body, fluorouracil takes the place of pyrimidine and interferes...

## Rosuvastatin (category Pyrimidines)

literature as approximately 0.5 (50%) due to a miscalculated hepatic extraction ratio in the original submission package subsequently corrected by the FDA reviewer...

## Base pair

single-ringed chemical structures called pyrimidines. Purines are complementary only with pyrimidines: pyrimidine–pyrimidine pairings are energetically unfavorable...

## DNA

divided into two groups, the single-ringed pyrimidines and the double-ringed purines. In DNA, the pyrimidines are thymine and cytosine; the purines are...

## Similarity measure

from a pyrimidine such as C or T to another pyrimidine, or from a purine such as A or G to another purine) than to transversions (from a pyrimidine to a...

## Lesch–Nyhan syndrome (category Inborn errors of purine-pyrimidine metabolism)

the building blocks for DNA. The purine bases (adenine and guanine) and pyrimidine bases (thymine and cytosine) are bound to deoxyribose and phosphate and...

## Coding region

the ratio point mutation type is altered slightly: there are more transitions, which are changes from purine to purine or pyrimidine to pyrimidine, compared...

## Abiogenesis

outer space conditions, using starting chemicals such as pyrimidine found in meteorites. Pyrimidine may have been formed in red giant stars or in interstellar...

## Deuterium

dwarfs. The gas giant planets display the primordial ratio of deuterium. Comets show an elevated ratio similar to Earth's oceans (156 deuterium nuclei per...

## Proofreading (biology)

light, which introduces cyclobutane pyrimidine dimer damages in DNA, or psoralen-plus-light, which introduces pyrimidine adducts, the rate of mutation increases...

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