

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...

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...

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...

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...

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...

Base pair

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

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"...

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...

Murchison meteorite

Lake meteorites. Measured purine and pyrimidine compounds were found in the Murchison meteorite. Carbon isotope ratios for uracil and xanthine of $\delta^{13}\text{C} = \dots$

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...

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...

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...

Tegafur/uracil (category Pyrimidine antagonists)

and tegafur (a bioavailable 5-fluorouracil (5-FU) prodrug) in a 4:1 molar ratio. Uracil has also been stated to help protect the gastrointestinal tract...

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...

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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