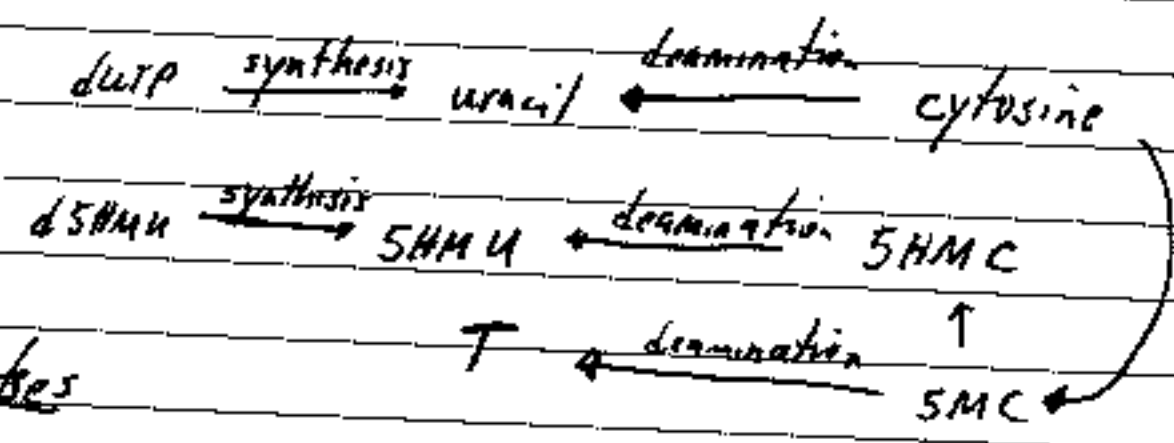


Boorstein et al 5-Hydroxymethyluracil-DNA-Glycosylase
MCB 12(12):5536



Glycosylases

Group I - just glycosylase (need AP ENDO)

- ung hydroxymethyl-C
- hypoxanthine hydroxymethyl-U

Group II -

- thymine-DNA glycos.
- formamidopyrimidine DNA glycos.
- endo III
- redoxynucleases
- pyrimidine dimer DNA glycos.

~~GT mismatch~~

GT mismatch also recognizes GU pairs

5HMU

- toxic to hamster cells
- selected (w/ mutagenesis) resistant cell lines

RESISTANT CELL

	<u>RESISTANT</u>	<u>WT</u>
- grows OK in 5HMU	yes	no
- grows OK w/o 5HMU	yes	yes
- incorporates 5HMU	yes	yes
- releases 5HMU	no	yes
- releases ung	yes	yes