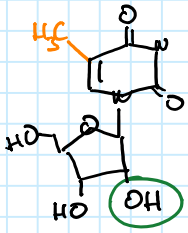
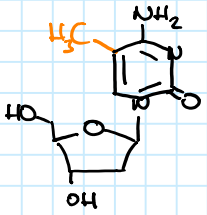
Vorlesung 6 - Mo 2

Montag, 1. Juni 2015 17:18

U -> dT^{CH_3} | dC (mC)





Ribonukleotide Reduction

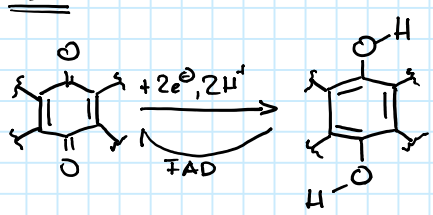
⇓

Folates

⇓

S-Adenosyl-methionine (Co-Factor) SAM → (CH_3^+) CH_3-I ; → $\cdot CH_3$

WH



Coenzyme Q_{10}
Vitamine k

- Blood-koagulation
- Radical-Scavenger

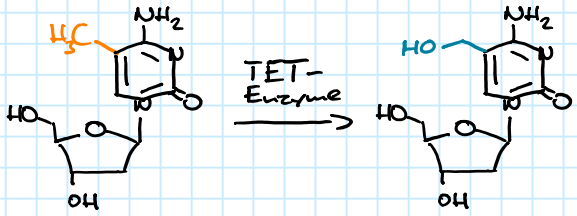
⇓

Inhibition => Inflammation (R_0)

.... AGCTAGCCCTT.... (first coding level)

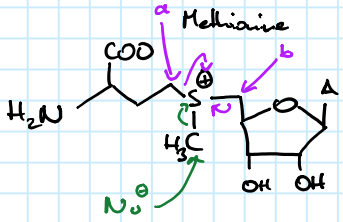
on off on off (second " ")

=> silencing through methylation: 5mC = off, 5hmC = on =>



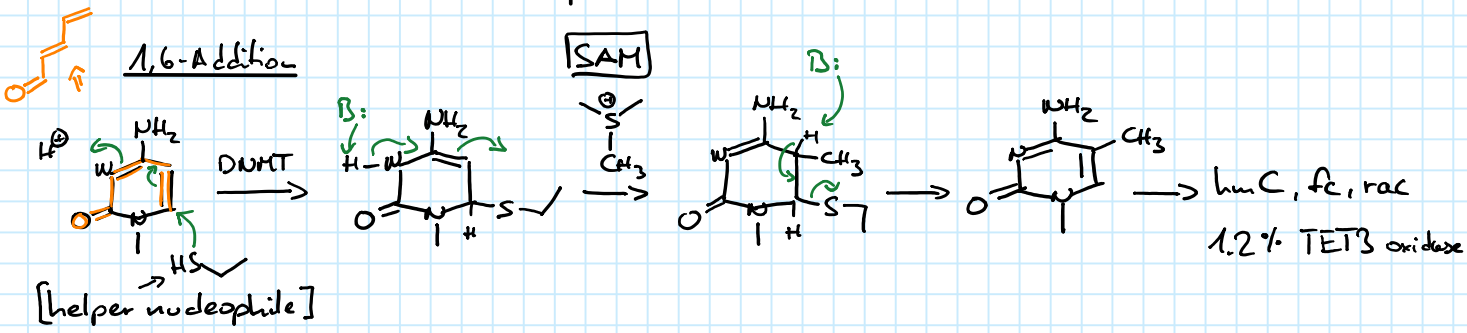
5-Methyl-cytosine → 5-hydromethyl-cytosine

SAM induced methylation

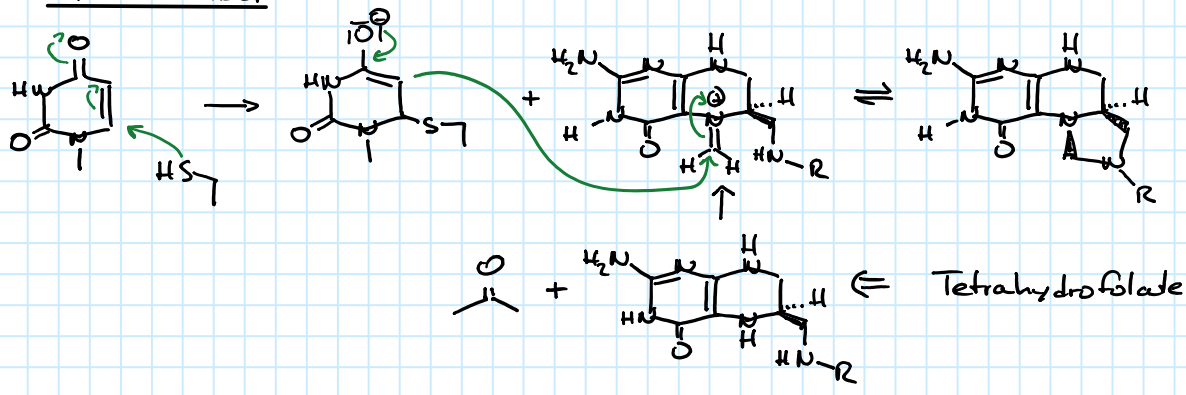


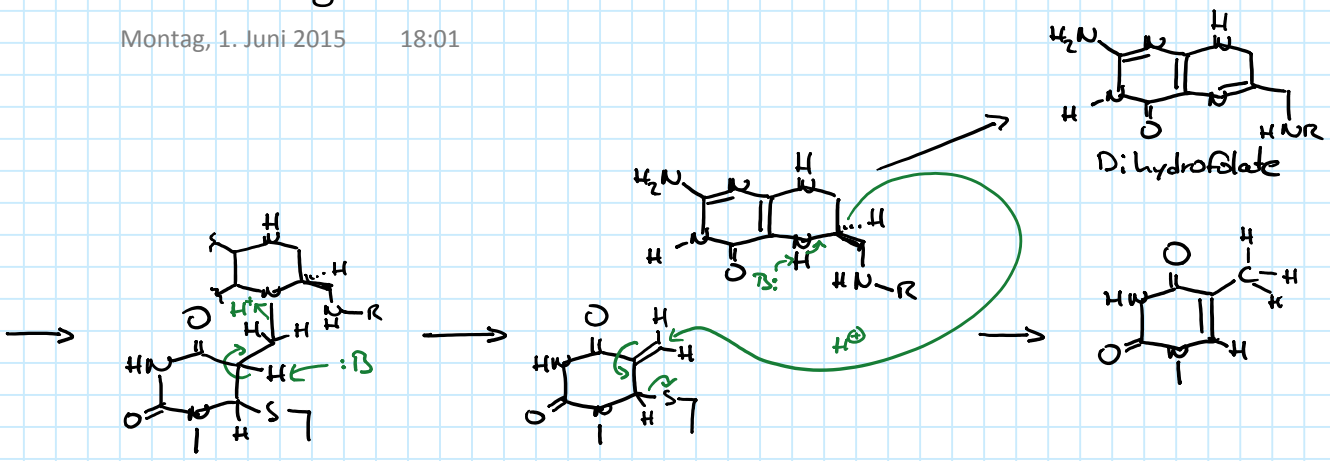
≡ SAM

1,6-Addition



1,4-Addition



Vorlesung 6 - Mo 2

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