



**THE
USMLE
GUYS**

USMLE STEP 1 CRASH COURSE

BIOCHEMISTRY LECTURE 1



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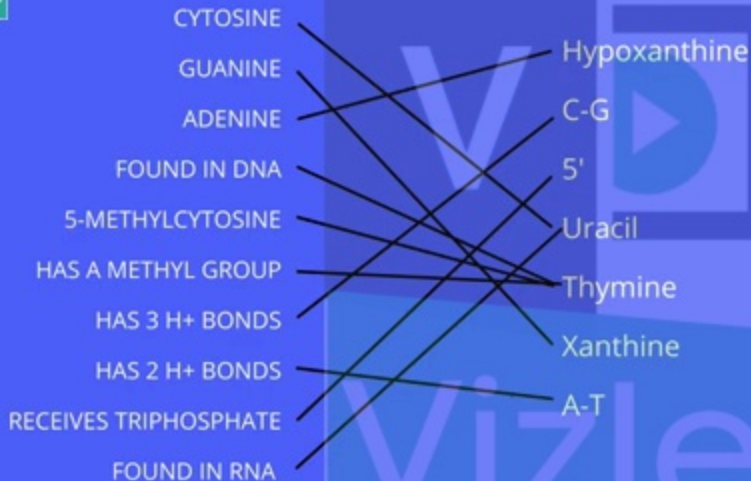
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LINK THE FOLLOWING WITH THEIR CORRECT MATCH:



Follow Along: FA 2020: p 35 FA 2021: p 35





WHICH OF THE FOLLOWING STEPS OF DE NOVO
PYRIMIDINE SYNTHESIS OCCURS VIA METHYLENE-FH₄?

- A) UMP into UTP
- B) dUMP into dTMP**
- C) dTMP into dTTP
- D) Orotic acid into Orotidine 5'-phosphate
- E) CDP into dCDP

Follow Along: FA 2020: p 36 FA 2021: p 36





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MATCH THE PROCESS WITH ITS CORRECT DESCRIPTION/FEATURE:

- | | |
|-------------------|-------------------------------------|
| HELICASE | Degrades RNA primer in Prokaryotes |
| SSBP | Deficient in Bloom syndrome |
| DNA TOPOISOMERASE | Has an RNA-dependent DNA polymerase |
| DNA POLYMERASE 1 | Joins Okazaki fragments |
| PRIMASE | Discontinuous DNA fragments |
| DNA LIGASE | Prevents strands from reannealing |
| TELOMERASE | Makes RNA primer for DNA pol 3 |
| OKAZAKI FRAGMENT | Creates breaks in the helix |

Follow Along: FA 2020: p 37-38 FA 2021: p 37-38





WHICH OF THE FOLLOWING DNA REPAIR MECHANISMS IS DEFECTIVE IN ATAXIA-TELANGIECTASIA?

- A) Mismatch repair
- B) Nonhomologous end joining**
- C) Nucleotide excision repair
- D) Homologous recombination
- E) Base excision repair

Follow Along: FA 2020: p 40 FA 2021: p 39





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