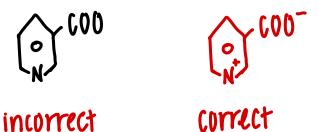
## SI Session 17 11/05

### True or False

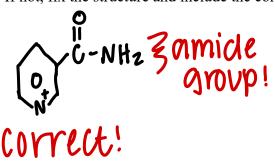
this is the deficiency for nincin!

- FAD stands for flavin alanine diphosphate.
  - If not, what does it stand for?
    - · Mavin adenine dinudeotide
- The deficiency of Riboflavin results in pellagra.
  - If not, what is the deficiency of riboflavin?
    - impossible to be deficient due to vit. Be being present in all living organisms
- Vitamin B3 is known as Niacin.
  - If not, what is the other name of Vitamin B3?
- FMSe Vitamin B3 is ingested as niacin.
  - If not, what is ingested as vitamin B3?
  - ingested as tryptophan (precursor molecule)
- FMISE This structure of Niacin is correct.
  - If not, draw the correct structure in the space provided



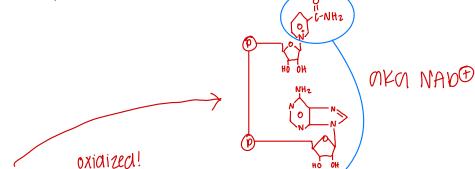
# True

- Niacin is transformed into Nicotinamide which has this structure.
  - If not, fix the structure and include the correct name



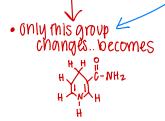


- Nicotinamide is then transformed into Nicotinamide Adenine Dinucleotide.
  - If not, what is nicotinamide transformed into?\*\*Draw the correct structure!!

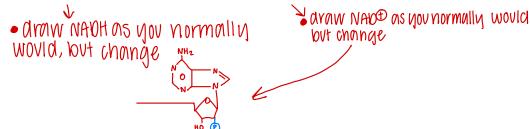


foise

NAD<sup>+</sup> is the reduced version of NADH. (Draw both structures)



■ NADPH is the reduced version of NADP<sup>+</sup>. (draw both structures)



Follse

- NAD acts as an electron carrier and binds irreversibly to proteins.
  - If incorrect, correct the sentence appropriately
    - NAO+ acts as an electron carrier & binds transiently to proteins

- The deficiency of Vit B3 is Pellagra.
  If not, what is the deficiency?

There is no known deficiency of pantothenic acid (B5).

- If false, what is the deficiency?
- Include the missing information

Pantomenic acid (vit. <u>89</u>)

$$COO^{-}CH_{2}-CH_{2}-N-C-CH-C-CH_{2}-OH$$

name of product: coenzyme A "(oA"

\*COA IS ON OLY! COMER \*CLECOMODXY ON OF CYS & OSPONTOTE