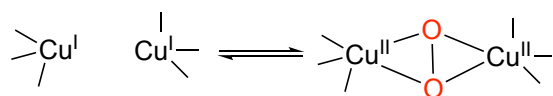


a

# Coupled binuclear copper (CBC) proteins

## Hemocyanins

O<sub>2</sub> transportation



## Polyphenol oxidases

### Tyrosinases

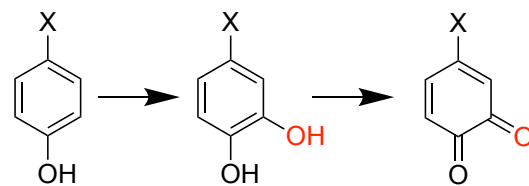
### Catechol oxidases

### Aurone synthases

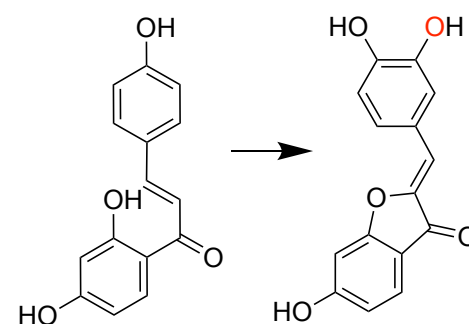
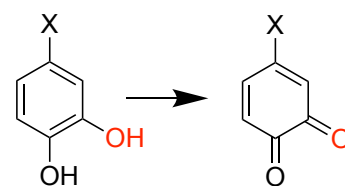
### O-Aminophenol oxidases

### "O-methoxy phenolases"

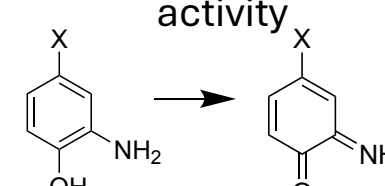
Mono- and diphenolase activity



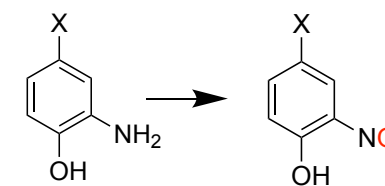
Diphenolase activity



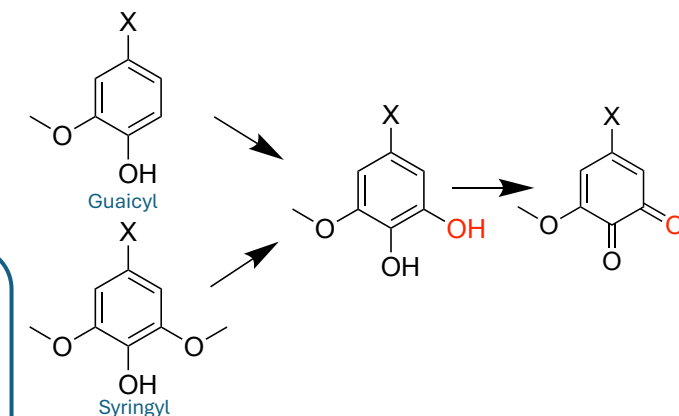
O-aminophenol oxidase activity



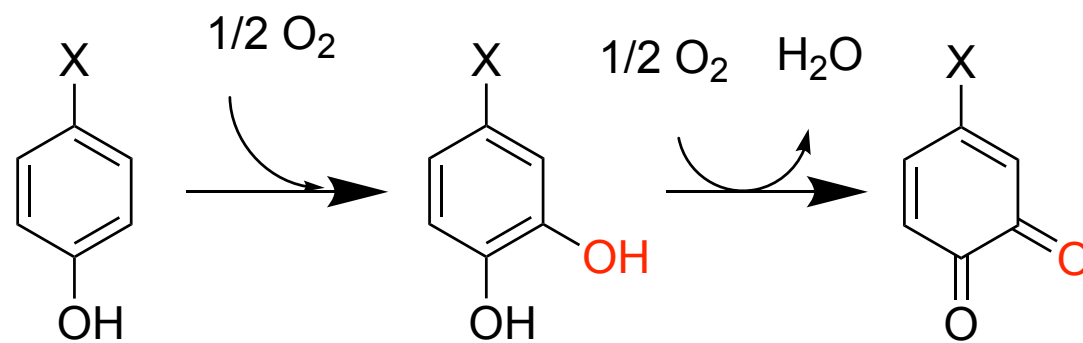
Hydroxyanilinase activity



O-methoxy phenolase activity



b



Monophenolase  
(Monooxygenase)

Diphenolase  
(2e<sup>-</sup> oxidation)