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Cinnamate 4-hydroxylase (C4H; CYP73A) is a cytochrome P450 monooxygenase associated externally with the endoplasmic reticulum of plant cells. The

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enzyme uses NADPH-cytochrome P450 reductase as a donor of electrons and hydroxylates cinnamic acid to form 4-coumaric acid in phenylpropanoid metabolism. In order to better understand the structure and function of this unique class of plant P450 ...

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The best-studied cytochrome p450 enzyme is a bacterial enzyme that adds oxygen to camphor. Two early examples of these enzymes, called cytochrome p450cams, are shown here. On the left (PDB entry 3cpp) is a structure with camphor and carbon monoxide bound in

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Cytochromes A, B and C participate in the electron transfer during respiration and photosynthesis. Cytochrome P450, another cytochrome, contains one mole of heme and has a main role in detoxification.

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Cytochromes P450 are a superfamily of cysteine thiolate-ligated heme-containing monooxygenase enzymes that catalyze the transfer of an oxygen atom from molecular oxygen into a wide variety of biological substrates, with the

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second oxygen atom being reduced by two electrons to a water molecule (Equation (1)). 1-10 Cytochrome P450 enzymes have been isolated from mammalian tissues, birds, fish ...

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The recent availability of crystal structures for several diverse cytochromes P450 (CYPs) offers the possibility to perform an up-to-date comparative analysis to identify the degree of structure conservation among this superfamily of enzymes specially relevant for their involvement in drug

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