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About the Cover:
Human cysteine dioxygenase plays a vital role in regulating the cellular levels of thiols. This non-heme iron enzyme autocatalytically creates a cysteine-tyrosine linked cofactor to boost catalytic efficiency. Li et al. employed the genetic code expansion strategy to substitute the tyrosine with a difluoro-tyrosine and for the first time obtained a crystal structure of the un-cross linked enzyme in complex with both L-cysteine and -NO. This long-sought complex structure provides clues for the autocatalytic formation of the protein-derived cofactor.

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