



# **Molecular Biology of Metal Homeostasis and Detoxification: From Microbes to Man (Topics in Current Genetics)**

*Markus J. Tamás, Enrico Martinoia*

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One of the challenges faced by every cell as well as by whole organisms is to maintain appropriate concentrations of essential nutrient metals while excluding nonessential toxic metals. Toward that end, all organisms have developed mechanisms for metal homeostasis and detoxification to maintain metal levels within physiological limits. This book brings together current knowledge of the molecular basis of metal homeostasis and detoxification in various eukaryotic model systems, including yeasts, plants, and mammals. It focuses on the cellular systems controlling metal transport, intracellular distribution, and immobilization as well as on systems regulating metal-dependent transcription. In addition to environmental aspects (including phytoremediation), the book treats the pathophysiology of metal deficiency and overload in relation to disease.

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