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Metalloregulatory proteins, here superimposed on the periodic table, act as metal-specific sensors that translate changes in metal ion concentration into changes in gene expression; elevations are proportional to the logarithm of the elemental abundances in the universe.

Most of these proteins mediate metal-responsive transcription by RNA polymerase (top left). See page 715. A special section on bioinorganic chemistry begins on page 701; see also the Perspective on page 699. [Image: Bryson Biomedical Illustrations]

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Requirement of Salicylic Acid for the Induction of Systemic Acquired Resistance

Dialkylglycine Decarboxylase Structure: Bifunctional Active Site and Alkali Metal Sites
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DNA Melting on Yeast RNA Polymerase II Promoters
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Primers for Mitochondrial DNA Replication Generated by Endonuclease G
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Spectroscopic Determination of the Phase Composition and Temperature of Nitrogen Ice on Triton
K. A. Tryka, R. H. Brown, V. Anicich, D. P. Cruikshank, T. C. Owen

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