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108 3 / CALCIUM IN BIOLOGICAL

SYSTEMS  $\text{Ca}^{2+}$  ions are also

known to play various roles

outside cells. In the plant

kingdom  $\text{Ca}^{2+}$  ions often form

links between individual cells and

are required for maintaining the

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rigidity of whole plants; some seaweeds are typical examples. In the blood plasma of mammals, in which the  $Ca^{2+}$  concentration

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Calcium is unique in biological

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systems.  $\text{Ca}^{2+}$  is the only metal cation demonstrated to function as a secondary messenger in the cytosol of eukaryotes. The information in this pulse of  $\text{Ca}^{2+}$  ions (Berridge 2006) is transduced into a change of conformation of a calcium-



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modulated protein(s). Many of these calcium-modulated proteins contain two to twelve tandem EF-hand domains.

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Calcium is, along with iron,

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silicon, and the alkaline earth metals, an important constituent of mineralized biological tissues. Some  $\text{Ca}^{2+}$ -based biominerals, like bone or mother-of-pearl, can be regarded as complex composites with microscopic crystallites embedded in a protein

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2+ in biological system; (d)

Important compounds of calcium  
and their uses:  $\text{CaO}$ ,  $\text{Ca(OH)}_2$ ,  
 $\text{CaCO}_3$ , and  $\text{Ca(OCl)}_2$ . 5. Group

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3A: (a) Extraction of Al by electrolysis of molten  $\text{Al}_2\text{O}_3$  -  $\text{Na}_3\text{AlF}_6$  mixture; (b) Reactions of Al and  $\text{Al}_2\text{O}_3$  with  $\text{H}_2\text{SO}_4$  and  $\text{NaOH}$ , respectively; (c) Uses of aluminum metal (d) Acid-base properties of  $\text{B}_2\text{O}_3$ ,  $\text{Al}_2\text{O}_3$  ...

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Calcium ions ( $\text{Ca}^{2+}$ ) contribute to the physiology and biochemistry of organisms cell. They play an important role in signal transduction pathways, where they act as a second messenger, in neurotransmitter release from neurons, in

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Authors contraction of all muscle cell types, and in fertilization. Many enzymes require calcium ions as a cofactor, including several of the coagulation factors.

Calcium in biology - Wikipedia  
This topic explains about the

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biological importance of calcium and magnesium. Calcium and Magnesium are one of the most important elements that affect numerous processes inside our body. Magnesium and calcium both are extensively used as alloying agents. Calcium finds

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application as a reducing agent in  
different industries.

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3 Calcium in Biological Systems

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Authors GRAY and WALTHER R. ELLIS, JR.

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to understand how the parts of  
biological systems are integrated  
to produce the amazing

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**Authors**, cells, organisms and ecosystems that exist in our world. We seek to define general principles of biological systems. Our goal is to train students who can seamlessly integrate diverse quantitative and experimental methodology and can balance the

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Authors between global ...

Systems Biology at Caltech

The purpose of the Calcium

Theme was to review progress in  
the diverse areas of investigation  
bearing on the ubiquitous role of  
calcium in biological systems. In



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**Authors** addition to contributions from those participating in the Theme, this volume also includes a number of invited papers that were added to fill certain voids in topics covered.

Calcium in Biological Systems |

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Ronald P. Rubin | Springer

From cell-division to brain development, biological systems accomplish tasks through self-organization across molecular, cellular and organismal scales. Our goal is to understand how unexplained properties of

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biological systems, including their mechanical organization and their ability to process information, emerge from collective interactions.

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She helped launch the inaugural

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season for women's soccer at Caltech in 2017 and says the sport and the team teach lessons that help her in the classroom and on the field. The chemical engineering major is inspired by the researchers and professors on campus, and she is committed to

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Authors  
building a legacy for other young women at Caltech.

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At the center of biological dioxygen transport are transition-metal complexes of iron or copper. To model such systems,



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chemists have prepared several synthetic oxygen carriers, especially of iron and cobalt porphyrins. In this chapter the structures and properties of biological and nonbiological oxygen carriers are discussed.

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Biological and Synthetic Dioxygen  
Carriers

With mixed metal oxides as  
catalysts for water oxidation and  
 $O_2$  reduction in heterogeneous  
and biological systems,  
fundamental understanding of the  
effects of redox inactive metals

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Authors  
on the chemistry of mixed metal  
oxide clusters is important for the  
rational development of effective  
catalysts. Prior to our work, a  
single high oxidation state  
complex displaying an oxo  
bridged redox active ...

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