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THE ROLE OF  
*calcium and*  
*comparable cations*  
*in*  
*animal behaviour*

R. G. WILKINS *and* P. C. WILKINS

# Role Of Calcium And Comparable Cations In Animal Behaviour

**Debra E. Buxton, Kathryn Hunchak-  
Kariouk, R. Edward Hickman**



## **Role Of Calcium And Comparable Cations In Animal Behaviour:**

**The Role of Calcium and Comparable Cations in Animal Behaviour** Ralph G. Wilkins, Patricia C. Wilkins, 2003  
Calcium and comparable cations are fast being recognised for their role as vital components of animal physiology. When trying to answer questions such as why salmon can adjust to life in fresh water as well as seawater or why chilli peppers taste hot to humans but evoke little response from chickens we often find the answers lie in patterns of movement of these ions and their roles in sensing, transmitting and collecting messages. Bringing together scattered literature on calcium, sodium, potassium and magnesium in biology, this book examines important biological contributions of these ions including enzyme activation effects in all types of muscle and biomineralization. Attention is focused on channel construction and ion movement, calcium as a second messenger and in the construction of solids and ion channelopathies with the help of personalities such as Agatha Christie, van Gogh and Captain Cook. The Role of Calcium and Comparable Cations in Animal Behaviour will be valued by a wide range of readers including students of bioinorganic chemistry and animal behavioural studies, teachers and other professionals in academia.

Inorganic Reaction Mechanisms, 2017-06-30. Inorganic Reaction Mechanisms Volume 70 is the latest volume in the Advances in Inorganic Chemistry series that presents timely summaries of current progress in inorganic chemistry ranging from bio inorganic to solid state studies. Topics covered in this updated volume include: The Kinetics and Mechanism of Complex Redox Reactions in Aqueous Solution; The Tools of the Trade: O-O Bond Activation in Cu and Fe Based Coordination Complexes; Breaking it Makes the Difference: Nitrido Diiron Phthalocyanine and Porphyrin Complexes; Unusual Structures With Interesting Catalytic Properties; and The Role of Nonheme Transition Metal Oxo Peroxo and Superoxo Intermediates in Enzyme Catalysis and Reactions of Bioinspired Complexes. This acclaimed serial features reviews written by experts in the field, serving as an indispensable reference to advanced researchers. Each volume contains an index and chapters are fully referenced. Features comprehensive reviews on the latest developments in inorganic reaction mechanisms, a subfield of inorganic chemistry. Includes contributions from leading experts in the field of inorganic reaction mechanisms. Serves as an indispensable reference to advanced researchers in inorganic reaction mechanisms.

**Relations of Surface-water Quality to Streamflow in the Raritan River Basin, New Jersey, Water Years 1976-93** Debra E. Buxton, Kathryn Hunchak-Kariouk, R. Edward Hickman, 1999. Water-resources Investigations Report, 1999. *The Journal of Experimental Biology*, 2009. *Relations of Surface-water Quality to Streamflow in the Atlantic Coastal, Lower Delaware River, and Delaware Bay Basins, New Jersey, Water Years 1976-93* Kathryn Hunchak-Kariouk, Debra E. Buxton, R. Edward Hickman, 1999. The British National Bibliography Arthur James Wells, 2003.

**Relations of Surface-water Quality to Streamflow in the Wallkill and Upper Delaware River Basins, New Jersey and Vicinity, Water Years 1976-93 ; Prepared in Cooperation with the New Jersey Department of Environmental Protection** Debra E. Buxton, Kathryn Hunchak-Kariouk, R. Edward Hickman, 1999. **Book Review Index**, 2004. Every 3rd issue is a quarterly cumulation.

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**Behavioural Biology Abstracts** ,1985

**Diabetes Literature Index** ,1977

*Animal Behaviour Abstracts* ,2002

**Comparative Diagnostic Pharmacology** C.P. Coyne,2008-01-09

Comparative Diagnostic Pharmacology Clinical and Research Applications in Living System Models is the first evidence based reference text devoted exclusively to the subject of applying pharmaceutical and biopharmaceutical agents as diagnostic probes in clinical medicine and investigative research This unique and groundbreaking book is a versatile guide for clinicians and researchers interested in using pharmacologic agents to Diagnose disease Assess physiological processes Identify the appropriateness of a therapeutic agent Determine appropriate dosing for therapeutic use Extensively referenced and organized by major body systems individual topics are listed in an evidence based format according to specific disease processes or physiological processes of interest Each entry also includes information on the mechanism of action administration and diagnostic interpretation Descriptions have been provided for the application of diagnostic pharmaceuticals to assess a wide spectrum of diseases and physiological processes relevant to the fields of veterinary and human medicine Comparative Diagnostic Pharmacology is useful not merely for pharmaceutical oriented research investigations but it will also prove invaluable for the monitoring and evaluation of physiological responses and disease processes in animal models Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1972

*Dendrites* Greg Stuart,Nelson Spruston,Michael Häusser,2007 Dendrites form the major receiving part of neurons This text presents a survey of knowledge on dendrites from their morphology and development through to their electrical chemical and computational properties **Research Awards Index** ,1978 Indexes to the Epilepsy Accessions of the

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