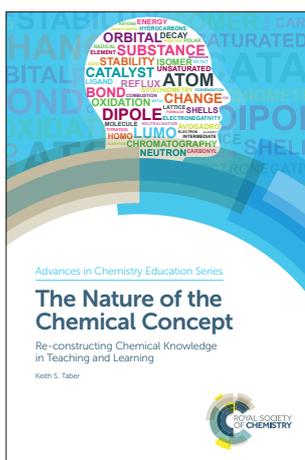


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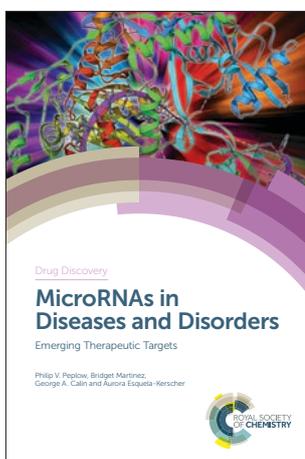


The Nature of the Chemical Concept

Keith S Taber University of Cambridge, UK

All chemistry teachers know that chemistry is a conceptual subject, especially at the upper end of secondary school and at university level, and that some students struggle to understand many chemical ideas. This book offers a step-by-step analysis and discussion of just why some students find chemistry difficult, by examining the nature of chemistry concepts, and how they are communicated and learnt. The book considers the idea of concepts itself; draws upon case studies of how canonical chemical concepts have developed; explores how chemical concepts become represented in curriculum and in classroom teaching; and discusses how conceptual learning and development occurs. This book will be invaluable to anyone interested in teaching and learning and offers guidance to teachers looking to make sense of, and respond to, the challenges of teaching chemistry.

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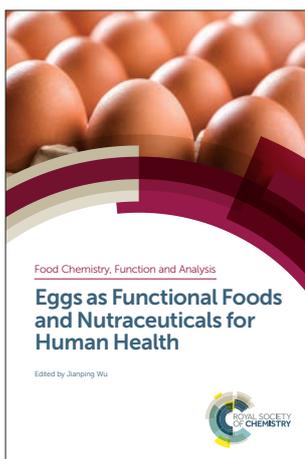


MicroRNAs in Diseases and Disorders

Philip V Peplow University of Otago, New Zealand
Bridget Martinez University of California, Merced, USA
George A Calin MD Anderson Cancer Center, USA
Aurora Esquela-Kerscher Eastern Virginia Medical School, USA

MicroRNAs have a distinct role in the development and progression of a variety of diseases including cancer, neurological disease and metabolic disease amongst others. As such, there is considerable interest in the potential utilisation of microRNAs in precision and personalised medicine, by increasing our understanding of the role of microRNA in the pathology of disease it allows an opportunity to identify potential therapeutic targets. With an international team of authors this book covers the global perspective from pathology to treatment with a comprehensive review of how drugs can be designed to target microRNAs in a variety of diseases.

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