Human Drug Metabolism Database

IUPAC has approved a new project to construct a human drug metabolism database model. The model will be mounted on the Internet for use by the scientific community without charge. As the model is further elaborated and data are accumulated, the database will eventually serve as a standard for how various chemical arrangements have been metabolized in humans.

Comments from the medicinal chemistry and drug metabolism communities are welcome and should be addressed to the project chairperson, Prof. Paul Erhardt (see contact information immediately above).

See http://www.iupac.org/projects/2000/2000-010-1-700.html for project description and update.

Provisional Recommendations

IUPAC Seeks Your Comments

In this section, we publish synopses of IUPAC's latest provisional recommendations on nomenclature and symbols. All comments on these recommendations are welcome and will be taken into consideration. The final revised versions are published in *Pure and Applied Chemistry* (*PAC*).

If you would like to comment on the provisional recommendations, please visit the IUPAC web site at http://www.iupac.org/reports/provisional/index.html, where the full texts are available for downloading as draft pdf files. Alternatively, you can write to your nearest national/regional center to request a copy; the most recent list of national/regional centers is available on the web site at the address above and last appeared in *CI*, Vol. 17, p. 141 (1997).

Analytical Chemistry Division. Commission on General Aspects of Analytical Chemistry—Selectivity in Analytical Chemistry
<http://www.iupac.org/reports/provisional/abstract01/vessman_310801.html>

The correct use of the term selectivity and its clear distinction from the term specificity is discussed. Recommendations are made with regard to (a) the definition of selectivity and (b) that the use of the term selectivity be promoted.

Comments by 30 September 2001 to Dr. Jörgen Vessman, Astra Zeneca R&D Mölndal, S-43183 Mölndal, Sweden. Tel.: +46-31-776-1321, Fax: +46-31-776-3773, E-mail: jorgen.vessman@astrazeneca.com.

New Books and Publications

New Book from Wiley-VCH and Verlag Helvetica Chimica Acta

***Color: A Multidisciplinary Approach.* Heinrich Zollinger. Wiley-VCH, Weinheim, Germany and Verlag Helvetica Chimica Acta, Zürich, Switzerland. Hardcover, 1999, x + pp. 1–258. ISBN 3-906390-18-7, USD 120.00, GBP 59.50, DM 198, CHF 176.**

Contents

Preface; Contents; Introduction: What do We Mean by Color?/Historical Survey; Physics of Light and Color: The Nature (Theory) of Light/Color by Refraction: Newton's Experiments/Color of the Rainbow/Peacock's Colors, a Phenomenon of Interference/How Many Causes of Color Do We Know?; Chemistry of Color: History of Colorants/Inorganic Pigments/Organic Colorants/Correlations between Chemical Structure and Color of Chemical Compounds; Colorimetry: Color Measurements/Color—Harmony or Contrasts?; How Do We See Colors: Perception and Cognition of Color/Anatomy of the Human Eye/Photochemistry of the Retina/What Does the Eye Tell the Brain?/Psychophysical Investigations on Color Vision/Color Vision of Animals; How Do We Name Colors?: From Color Chemistry to Color Linguistics/The Phenomenon (Prodigy) of Human Language/Categorization of the Color Space by Color Naming/Color and Phonological Universals/Cultural Influence on Color Naming; Color in Art and in Other Cultural Activities: Color in European Art from Antiquity to Gothic/From Renaissance to Neo-Impressionism/Art in the 20th Century/Color in the Art of Non-European Culture: The Case of Japan/Color in Psychology/Goethe's "Farbenlehre"/Sound-Color Synesthesia; Epilogue; Acknowledgments; Author Index; Subject Index

This book by Heinrich Zollinger, an emeritus professor at the Swiss Federal Institute of Technology in Zurich and past President and current Affiliate Member of IUPAC, is sure to interest many readers of *CI*. After all, as stated on the Wiley-VCH web site, "Who is not attracted, fascinated, or even amazed by the world of colors?" Prof. Zollinger spent his long career specializing in color and textile chemistry, and he has had a lifelong love affair with the spectrum between red and violet. He writes in a very accessible manner that will appeal to chemists, physicists, neuroscientists, psychologists, ophthalmologists, interior designers, painters, and visual artists of all types. Thomas Lazar, a professor in the Department of Molecular Genetics, Max Planck Institute for Biophysical Chemistry, Göttingen, Germany, writes in his review in *Science* (Vol. 288, p. 1351, 26 May 2000) that the text is "accompanied by informative graphics and many high-quality reproductions of photographs and paintings". Prof. Zollinger also discusses the role of linguistics in designating special terms to describe colors and colorfulness. As Prof. Lazar states in his review, "Zollinger's account is itself a kaleidoscope of color. The chapters proceed in a logical order from the physics of light and the chemistry of colorants, through the biology of vision, to the culture of visual arts. Each, however, can be read independently, which makes it easy to dive into the next, wherever one is lured. After exploring Zollinger's varied perspectives, readers will look at the colorful world around them with increased awareness and appreciation".

New Book from Elsevier

***Catalytic Polymerization of Cycloolefins. Ionic, Ziegler–Natta, and Ring-Opening Metathesis Polymerization.* V. Dragutan (Institute of Organic Chemistry of the Romanian Academy, 202B Spl. Independentei, 71141 Bucharest, Romania) and R. Streck (Hüls AG, Marl, Germany; retired). Series on Studies in Surface Science and Catalysis, 131. Elsevier, Amsterdam, Netherlands (http://www.elsevier.nl). Hardcover, 2000, 1292 pages. ISBN 0-444-89519-1, NLG 775.00, USD 406.00.**

This book covers the most important topics concerning cationic Ziegler–Natta and ring-opening metathesis polymerization of cycloolefins. The work describes the major pathways that cycloolefins can follow under the action of specific catalytic systems—essentially vinyl and ring-opening polymerization, both reaction types allowing the manufacture of distinct products with wide applicability in modern technologies. Comprehensive data available on this subject are logically and systematically selected and reviewed throughout 18 chapters, according to the basic catalytic processes involved, types of monomers and catalysts employed, reaction conditions, and application fields. Modern trends in design of chiral metallocene catalysts, well-defined living metathesis catalysts, and catalysts tolerant toward functionalities and water systems are highlighted.

Dragutan and Streck discuss in detail relevant aspects of the processes outlined above, including reaction thermodynamics, kinetics, mechanisms, and stereochemistry, and they correlate the structure of manufactured polymers with their chemical and physical–mechanical properties. Related important topics include Ziegler–Natta polymerization of olefins and dienes, atom transfer radical polymerization of vinyl compounds, metathesis of olefins and acetylenes, acyclic diene metathesis reactions, carbonyl olefination reactions, metathesis polymerization of acetylenes, metathesis degradation of polymers, and ring-opening polymerization of heterocycles. Special emphasis is placed on manufacture of commercial products, new polymers and copolymers of potential interest for industry, and design and synthesis of specialty polymers with particular structures, architectures, and desired properties.

The book critically evaluates the most recent achievements reported in the field and outlines modern trends in research and application of catalytic processes for cycloolefin polymerization. For the first time, comprehensive information about the published data on the subject up to now is provided for both academic and industrial researchers working in the areas of polymer chemistry, organic and organometallic chemistry, surface science and catalysis, petrochemistry, and chemical engineering. The content of this volume will also be of interest to other scientists and advanced students and industrialists working in chemistry, as well as in areas such as computer technology, telecommunications, microelectronics, fine mechanics, optics, medicine, construction, transportation, and agriculture.

This stimulating book offers an enlightening introduction and quick documentation on the subject, as well as a solid, in-depth background in the field. Moreover, the volume contains a wealth of useful information for specialists applying polymers in various scientific and industrial areas, such as computer technology, telecommunications, microelectronics, fine mechanics, optics, medicine, construction, transportation, sports, and agriculture.