



Topic 10.1: Organic chemistry – Fundamentals of organic chemistry

Organic chemistry focuses on the chemistry of compounds containing carbon.

• **Understanding:** A homologous series is a series of compounds of the same family, with the same general formula, which differ from each other by a common structural unit.

- **Homologous series:** series of compound of the same family, with the same general formula, which differ by a common structural unit
 - Common structural unit: often CH_2 (methylene) group
 - Same family: has the same functional group
 - Properties: homologous series has similar physical and chemical properties

• **Understanding:** Structural formulas can be represented in full and condensed format.

	Full structural formula	Condensed structural formula	Skeletal structural formula
Example		$\text{CH}_3\text{—CH}_2\text{—CH}_2\text{—CH}_3$ $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$	
Description	Two-dimensional representation showing all atoms, their relative positions and bonds	Two-dimensional representation showing all atoms and their relative position	Two dimensional representation of a compound where each vertex and end of line represent a carbon atom, and functional group is added

• **Understanding:** Structural isomers are compounds with the same molecular formula but different arrangements of atoms.

- **Structural isomers:** compounds with same molecular formula with different arrangement of atoms
 - Properties: structural isomers have different chemical and physical properties (melting point, boiling point etc.)

• **Understanding:** Functional groups are the reactive parts of molecules.

- **Functional groups:** reactive parts of a molecule that is responsible for the molecule's chemical property
 - Naming: the position of the function group is identified by the number of carbon to which it is attached

• **Understanding:** Saturated compounds contain single bonds only and unsaturated compounds contain double or triple bonds.

- **Saturated compounds:** organic compounds in which all the carbon-carbon bonds are single (e.g., *alkanes*)
- **Unsaturated compounds:** organic compound in which there is at least one carbon-carbon bond that is double or triple (e.g., *alkenes*)

• **Understanding:** Benzene is an aromatic, unsaturated hydrocarbon.

- **Aliphatic:** characterized by a straight, branched or cyclic structure
- **Aromatic:** characterized by presence of benzene ring
- **Benzene:** aromatic, unsaturated hydrocarbon in which six carbons bonds into a ring
 - **Sigma (σ) bond in benzene:** benzene contains six sp^2 hybridized carbon atoms bond to one other by sigma bonds
 - **Pi (π) bond in benzene:** p-orbitals in carbon overlap to form a continuous π bond above and below the plane of carbons

• **Applications and skills:** Explanation of the trends in boiling points of members of a homologous series.

Name	Formula	Structural formula (condensed)	Boiling point ($^{\circ}\text{C}$)
Methane	CH_4	CH_4	-161
Ethane	C_2H_6	CH_3CH_3	-89
Propane	C_3H_8	$\text{CH}_3\text{CH}_2\text{CH}_3$	-42
Butane	C_4H_{10}	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$	-0.5
Pentane	C_5H_{12}	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$	36
Hexane	C_6H_{14}	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$	69

- Trend in boiling points: boiling points increases as the carbon chain increases by a common structural unit
 - Trends arise from increasing intermolecular (dispersion forces) with increased chain lengths

• **Applications and skills:** Distinction between empirical, molecular and structural formulas.

- **Empirical formula:** simplest ratio of atoms (of an element) in a molecule
- **Molecular formula:** actual number of atoms (of each element) in a molecule
- **Structural formula:** representation of the type of atom and their position relative to one other

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Chemistry for the IB Diploma Coursebook with Free Online Material Steve Owen, Peter Hoeben, Mark Headlee, 2014-03-13 Chemistry for the IB Diploma Second edition covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016 The Second edition of this well received Coursebook is fully updated for the IB Chemistry syllabus for first examination in 2016 comprehensively covering all requirements Get the best coverage of the syllabus with clear assessment statements and links to Theory of Knowledge International mindedness and Nature of Science themes Exam preparation is supported with plenty of sample exam questions online test questions and exam tips Chapters covering the Options and Nature of Science assessment guidance and answers to questions are included in the additional online material available with the book

Cumulated Index Medicus, 1980

Impact of Aerosols (Saharan Dust and Mixed) on the East Mediterranean Oligotrophic Ecosystem, Results from Experimental Studies Paraskevi Pitta, Barak Herut, Tatiana M. Tsagaraki, 2017-11-16 In oligotrophic environments dust and nutrient inputs via atmospheric routes are considered important sources of macro nutrients and micro trace metals fuelling primary and secondary production Yet the impact of these dust inputs on the microbial populations is not fully investigated in the Eastern Mediterranean Sea EMS The response of oligotrophic systems to dust inputs whether as positive or negative feedbacks to autotrophic and heterotrophic production and thus to biogeochemical cycling is important to examine further Experimental studies have explored nutrient additions in various combinations to determine the limiting resource to productivity or N₂ fixation Recent experimental studies have applied dust enrichments to bottle or mesocosm incubations of seawater from different oceanic regions This research topic presents two Eastern Mediterranean dust addition mesocosm experiments using for the first time real aerosol additions pure Saharan dust and mixed aerosols a natural mixture of desert dust and polluted European particles as well as other EMS aerosol experimental studies The Topic includes manuscripts introducing results on a the impact of Saharan dust vs mixed aerosols on the autotrophic and heterotrophic surface microbial populations in the EMS b the impact of single vs multi pulses of Saharan dust introduction into the pelagic environment of the EMS and c other experimental studies of aerosol impacts on the EMS ecosystem

The Science IA Daniel Slosberg, 2016-02-17

Homeostasis and Allostasis of Thyroid Function Johannes W. Dietrich, John E. M. Midgley, Rudolf Hoermann, 2018-08-29 The discovery of the negative feedback of thyroid hormones on pituitary thyroid stimulating hormone TSH secretion a classical endocrine feedback control system has shaped diagnosis and treatment of thyroid disease for the last decades Based on this concept a unique diagnostic category of subclinical thyroid disorders was introduced being defined exclusively by an abnormal TSH response in the presence of thyroid hormone concentrations within the reference range Although this approach was able to deliver a conceptually straightforward disease definition problems surfaced in clinical practice as neither the diagnostic reference range nor the appropriate threshold for initiating substitution treatment

are universally agreed upon for subclinical thyroid disorders. The situation is further aggravated by the so-called syndrome T, which comprises a substantial but heterogeneous group of L-T₄ treated patients with hypothyroidism with reduced quality of life despite normal TSH values. A limited understanding of the physiological relationships between TSH and thyroid hormones may be a main reason for clinical difficulties in dealing with the causes of syndrome T and tailoring substitution therapy for hypothyroid patients with subclinical thyroid disorders. Feedback regulation has recently been shown to be much more complex than previously assumed. The concept of homeostatic control has also been extended to include the lesser known but equally important allostatic thyroid regulation. The latter aims at adaptive homeostasis or stability through changing setpoints and modulating structural parameters of feedback control as may be appropriate to adapt to a vast array of conditions spanning from fetal life, aging, pregnancy, exercise, starvation, obesity, psychiatric disorders to the severe non-thyroidal illness syndrome. A better understanding of homeostatic and allostatic mechanisms which govern the behaviour of pituitary thyroid feedback control is on the horizon. This promises to improve the diagnostic utility of laboratory methods, laying the foundation for personalised methods to optimise dosage and modality of substitution therapy. The emerging new world of thyroid physiology is reflected on the side of clinical medicine in a new relational paradigm for diagnosis and treatment. Considerable progress has been made in this respect in the following key areas: the significance of complementary information processing structures within the feedback loop; in particular, ultrashort feedback of TSH on its own secretion and the action of a TSH-T₃ shunt unburdening the thyroid from T₄ synthesis in imminent thyroid failure; the unravelling of spatio-temporal dynamics of hormone concentrations ranging from ultradian to circannual rhythms and including hysteresis effects; the emergence of non-canonical mechanisms of thyroid hormone signalling beyond transcriptional control of gene expression; the physiological actions of thyronine metabolites which have been previously regarded as biologically inactive such as thyronamines and iodothyroacetates; the characterisation of distinct patterns in the adaptive processes to stress and strain and their conclusive explanation through reactions to type 1 and type 2 allostatic load. This collective volume contains the contributions to the Research Topic Homeostasis and Allostasis of Thyroid Function which was originally published by the journal *Frontiers in Endocrinology*. Authored by an international team of experts from three continents, the book provides a comprehensive overview on thyroid control from recent research in basic, computational and clinical thyroidology. Many aspects addressed here can be expected to stimulate future research. A more comprehensive view and better integration of *in vitro*, *in silico* and *in vivo* investigations will be invaluable in paving the way to this new world of thyroidology.

Management of Greywater in Developing Countries Radin Maya Saphira Radin Mohamed, Adel Ali Saeed Al-Gheethi, Amir Hashim Mohd Kassim, 2018-05-04. This book reviews the consequences of improper disposal of greywater into the environment and the most appropriate treatment technologies for developing countries focusing on the potential to reuse greywater as a production medium for biomass and bio products. It also describes the quantities and qualitative

characteristics as well as the common practice of discharging greywater in developing countries and highlights the associated health risks Further it compares the management of greywater in developed and developing countries and explores the advantages and disadvantages of various treatment technologies discussing the reuse of greywater for irrigation purposes in arid and sub arid countries especially in the Middle East The book shows the benefits of greywater and introduces low cost technologies based on the available local facilities can be used to discharge reuse and recycle it

Anti-Drug Policies in Colombia Alejandro Gaviria, Daniel Mejia, 2021-04-30 Forty years after the declaration of the war on drugs by President Nixon the debate on the effectiveness and costs of the ban is red hot Several former Latin American presidents and leading intellectuals from around the world have drawn attention to the ineffectiveness and adverse consequences of prohibitionism This book thoroughly analyzes the drug policies of one of the main protagonists in this war The book covers many topics the economics of drug production the policies to reduce consumption and decrease supply during the Plan Colombia the effects of the drug problem on Colombia s international relations the prevention of money laundering the connection between drug trafficking and paramilitary politics and strategies against organized crime Beyond the diversity in topics there is a common thread running through all the chapters the need to analyze objectively what works and what does not based on empirical evidence Presented here for the first time to an English speaking audience this book is a contribution to a debate that urgently needs to transcend ideology and preconceived opinions **Textbook of**

Periodontics Shalu Bathla, 2017-04-30 Periodontology is the study of the supporting structures of teeth gums bones and cement like substance that hold the teeth and the periodontal ligament and the diagnosis and treatment of diseases and conditions that affect them This textbook is a complete guide to periodontology for dental students Divided into twelve sections the book begins with explanations of normal periodontium classification and epidemiology aetiology and pathology of gingival and periodontal diseases The following sections cover diagnosis and both surgical and non surgical treatment methods A complete chapter is dedicated to implantology and the interdisciplinary link between periodontics and other subspecialties is explained in detail Each topic is enhanced by colour coded boxes highlighting key points viva voce questions and suggested further reading as well as high quality clinical photographs diagrams and tables Key Points Complete guide to periodontology for dental students Covers surgical and non surgical treatments including implantology Each topic enhanced by colour coded boxes highlighting key points Features viva voce questions photographs diagrams and tables and suggestions for further reading **Genetics of Bone Biology and Skeletal Disease** Rajesh V. Thakker, Michael P.

Whyte, John Eisman, Takashi Igarashi, 2017-10-31 Genetics of Bone Biology and Skeletal Disease Second Edition is aimed at students of bone biology and genetics and includes general introductory chapters on bone biology and genetics More specific disease orientated chapters comprehensively summarize the clinical genetic molecular animal model molecular pathology diagnostic counseling and treatment aspects of each disorder The book is organized into five sections that each emphasize a

particular theme general background to bone biology general background to genetics and epigenetics disorders of bone and joint parathyroid and related disorders and vitamin D and renal disorders The first section is specifically devoted to providing an overview of bone biology and structure joint and cartilage biology principles of endocrine regulation of bone and the role of neuronal regulation and energy homeostasis The second section reviews the principles and progress of medical genetics and epigenetics related to bone disease including genome wide association studies GWAS genomic profiling copy number variation prospects of gene therapy pharmacogenomics genetic testing and counseling as well as the generation and utilizing of mouse models The third section details advances in the genetics and molecular biology of bone and joint diseases both monogenic and polygenic as well as skeletal dysplasias and rarer bone disorders The fourth section highlights the central role of the parathyroids in calcium and skeletal homeostasis by reviewing the molecular genetics of hyperparathyroidism hypoparathyroidism endocrine neoplasias and disorders of the PTH and calcium sensing receptors The fifth section details molecular and cellular advances across associated renal disorders such as vitamin D and rickets Identifies and analyzes the genetic basis of bone disorders in humans and demonstrates the utility of mouse models in furthering the knowledge of mechanisms and evaluation of treatments Demonstrates how the interactions between bone and joint biology physiology and genetics have greatly enhanced the understanding of normal bone function as well as the molecular pathogenesis of metabolic bone disorders Summarizes the clinical genetic molecular animal model molecular pathology diagnostic counseling and treatment aspects of each disorder

Tietz Textbook of Clinical Chemistry and Molecular Diagnostics - E-Book
Nader Rifai, 2017-01-16 The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics 6th Edition provides the most current and authoritative guidance on selecting performing and evaluating the results of new and established laboratory tests This classic clinical chemistry reference offers encyclopedic coverage detailing everything you need to know including analytical criteria for the medical usefulness of laboratory tests variables that affect tests and results laboratory medicine applications of statistical methods and most importantly clinical utility and interpretation of laboratory tests It is THE definitive reference in clinical chemistry and molecular diagnostics now fully searchable and with quarterly content updates podcasts clinical cases animations and extended content online through Expert Consult Analytical criteria focus on the medical usefulness of laboratory procedures Reference ranges show new approaches for establishing these ranges and provide the latest information on this topic Lab management and costs gives students and chemists the practical information they need to assess costs allowing them to do their job more efficiently and effectively Statistical methods coverage provides you with information critical to the practice of clinical chemistry Internationally recognized chapter authors are considered among the best in their field Two color design highlights important features illustrations and content to help you find information easier and faster NEW Internationally recognized chapter authors are considered among the best in their field NEW Expert Consult features fully searchable text quarterly content updates clinical case studies animations podcasts

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Obesity Amelia Marti del Moral,Concepcion M. Aguilera,2018-08-10 Obesity Oxidative Stress and Dietary Antioxidants cover the science of oxidative stress in obesity and associated conditions including metabolic syndrome bariatric surgery and the potentially therapeutic usage of natural antioxidants in the diet or food matrix The processes within the science of oxidative stress are not described in isolation but in concert with other processes such as apoptosis cell signaling and receptor mediated responses This approach recognizes that diseases are often multifactorial and oxidative stress is but a single component The book is designed for nutritionists dietitians food scientists physicians and clinical workers health care workers and research scientists Covers the basic processes of oxidative stress from molecular biology to whole organs Highlights antioxidants in foods including plants and other components of diet Provides the framework for further in depth

analysis or studies via well designed clinical trials or via the analysis of pathways mechanisms and componentsa *Gas hydrate appearance accumulation, exploration and exploitation in continental margins - volume 2* Pibo Su,Wei Zhang,Zhifeng Wan,Lihua Zuo,Jinan Guan,2023-02-13 **The Clinical Application of Neoantigens** Zhenyu Ding,Jian-Guo Zhou,Huashan Shi,Min Cheng,2022-03-25 **Stem Cells in Regenerative Medicine** Alain A. Vertes,Nasib Qureshi,Arnold I. Caplan, Lee E. Babiss,2015-12-02 This book is a unique guide to emerging stem cell technologies and the opportunities for their commercialisation It provides in depth analyses of the science business legal and financing fundamentals of stem cell technologies offering a holistic assessment of this emerging and dynamic segment of the field of regenerative medicine Reviews the very latest advances in the technology and business of stem cells used for therapy research and diagnostics Identifies key challenges to the commercialisation of stem cell technology and avenues to overcome problems in the pipeline Written by an expert team with extensive experience in the business basic and applied science of stem cell research This comprehensive volume is essential reading for researchers in cell biology biotechnology regenerative medicine and tissue engineering including scientists and professionals looking to enter commercial biotechnology fields Neuro-immune interaction in CNS injury and disease Bo Li,Guangzhi Ning,Ruiping Wang,2023-07-24 **Index Medicus** ,2001-07 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

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