

# Polycyclic Aromatic Hydrocarbon Carcinogenesis Structure Activity Relationships

*Polycyclic Aromatic Hydrocarbon Carcinogenesis* - Shen K. Yang 1988

## **Quantitative Structure-Activity Relationship (QSAR) Models of Mutagens and Carcinogens** - Romualdo Benigni 2003-02-26

Applied with success in a number of areas, QSAR studies have become particularly popular in the rational design of drugs and pesticides. Much has been published on the principles of QSAR in this area, but not on their applications to toxic chemicals. This book provides the first comprehensive, interdisciplinary presentation of QSAR studies on *Polycyclic Aromatic Hydrocarbon Carcinogenesis* - Shen K. Yang 1988

## **Dibenzanthracenes and Environmental Carcinogenesis** - Walter Karcher 1992-10-15

A systematic survey of the dibenzanthracenes and of their chemical, physicochemical, and biological properties, this book treats the nomenclature, the chemical and physical properties, and the synthesis and preparation of the five principal isomers of the dibenzanthracene series: dibenz (a, h), dibenz (a, c), dibenz (a, j), anthracene, benzo(a)naphthalene, and pentacene. Other chapters are devoted to their occurrence and analysis in the environment, in industrial processes and effluents, and in foodstuffs. The second part addresses their biological activity and reviews the metabolism, cellular interactions, toxicology, mutagenicity, and carcinogenicity of the dibenzanthracenes. The final chapter is devoted to structure-activity relationships in this class of the aromatic compounds.

*WHO Guidelines for Indoor Air Quality* - 2010

This book presents WHO guidelines for the protection of public health from risks due to a number of chemicals commonly present in indoor air. The substances considered in this review, i.e. benzene, carbon monoxide, formaldehyde, naphthalene, nitrogen dioxide, polycyclic aromatic hydrocarbons (especially benzo[a]pyrene), radon, trichloroethylene and tetrachloroethylene, have indoor sources, are known in respect of their hazardousness to health and are often found indoors in concentrations of health concern. The guidelines are targeted at public health professionals involved in preventing health risks of environmental exposures, as well as specialists and authorities involved in the design and use of buildings, indoor materials and products. They provide a scientific basis for legally enforceable standards.

## **Transformation of Human Epithelial Cells (1992)** - George E Milo 2017-11-22

This book offers a conceptual explanation of the interrelationships that exist between the stages in the progression of initiated epithelial cells in culture compared with the diverse tissue of organs and the progression of tumors from different organ sites. The fate of the modification of adducts is discussed at the molecular level. The role that modifications in hot spots in oncogenes and suppressor genes play at the molecular level and how these molecular modifications can lead to an explanation of molecular control in the formation of tumor phenotypes is also examined. Researchers in cell biology and toxicology, applied pharmacology, carcinogenesis, teratogenesis, mutagenesis, and molecular toxicology will find the book useful, interesting reading.

*Carcinogenic and Mutagenic N-substituted Aryl Compounds* - 1994

## Reviews of Environmental Contamination and Toxicology - George W. Ware 2012-12-06

Reviews of Environmental Contamination and Toxicology publishes authoritative reviews on the occurrence, effects, and fate of pesticide residues and other environmental contaminants. It will keep you informed of the latest significant issues by providing in-depth information in the areas of analytical chemistry, agricultural microbiology, biochemistry, human and veterinary medicine, toxicology, and food technology.

*Sulfur Analogues of Polycyclic Aromatic Hydrocarbons (Thiaarenes)* - Jürgen Jacob 1990

First published in 1990. Sulfur containing polycyclic aromatic compounds (thiaarenes) play a potentially important role in environmentally induced cancers. The main sources of these compounds

being fossil fuels such as coal, petroleum and shale oils from which they are released either directly or via combustion into the environment.

Information on the specific contribution of thiaarenes to the mutagenic and carcinogenic potencies of environmental matter is very limited but this book gives credit to new and exciting data in this field. Our present knowledge of the occurrence, chemical and physical properties, analysis, synthesis, toxicology and biochemistry of the sulfur containing aromatic compounds is summarized in this volume. The first half of the book covers all aspects of chemistry and carcinogenicity, whilst the remainder summarizes information on the various thiaarene systems, compound by compound. This volume will provide a valuable source of reference for chemists, toxicologists, biologists and environmentalists working in cancer research institutes and universities and for research scientists working in the areas of pollution monitoring, public health and fuel chemistry.

## **Quantitative Structure-Activity Relationship (QSAR) Models of Mutagens and Carcinogens** - Romualdo Benigni 2003-02-26

Applied with success in a number of areas, QSAR studies have become particularly popular in the rational design of drugs and pesticides. Much has been published on the principles of QSAR in this area, but not on their applications to toxic chemicals. This book provides the first comprehensive, interdisciplinary presentation of QSAR studies on How Tobacco Smoke Causes Disease - 2010

This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

Structural Correlates of Carcinogenesis and Mutagenesis - Irvin M. Asher 1978

Chemical Induction of Cancer - Joseph C. Arcos 2013-10-22

Chemical Induction Of Cancer: Structural Bases and Biological Mechanisms Volume IIA deals with the organic and biochemical principles behind cancer. This volume includes Part III of the work, which covers structure-activity relationships of chemical carcinogens, the effect of chemical reactivity, molecular geometry, and metabolism on carcinogenic activity. Under this is Chapter 5, which tackles conjugated aromatic systems. The text is recommended for doctors, organic chemists, and biochemists with an advanced knowledge in biochemistry and organic chemistry and would like to know more the biochemical processes of cancer.

## **The Carcinogenic Effects of Polycyclic Aromatic Hydrocarbons** - Andreas Luch 2005-08-22

This book provides an overview on the molecular mode of action of carcinogenic polycyclic aromatic hydrocarbons (PAHs). PAHs are by-products arising from incomplete combustion of organic matter that are frequently released into our environment, and thus are ubiquitously detectable. Many PAHs are strong carcinogens in rodent bioassays and have been linked to increased incidences of various types of cancer in humans. The present book covers all aspects of PAH-induced carcinogenesis; it is a collection of articles written by some of the most recognizable PAH researchers, reviewing the present knowledge in this field. The topics include: exposure to and biomonitoring of PAHs in the human population; metabolic activation of PAHs; genotoxicity and repair of PAH-induced DNA damage; and factors modulating individual susceptibility to the deleterious effects of PAHs. Contents: Polycyclic Aromatic Hydrocarbon-Induced Carcinogenesis — An Introduction (A Luch) Metabolic Activation and Detoxification of Polycyclic Aromatic

Hydrocarbons (A Luch & W M Baird) Biomonitoring of Polycyclic Aromatic Hydrocarbons — Human Exposure (A Seidel) Macromolecular Adducts as Biomarkers of Human Exposure to Polycyclic Aromatic Hydrocarbons (D H Phillips) DNA Damage and Mutagenesis Induced by Polycyclic Aromatic Hydrocarbons (A Besaratinia & G P Pfeifer) Mechanisms of Repair of Polycyclic Aromatic Hydrocarbon-Induced DNA Damage (H Naegeli & N E Geacintov) Aberrant Gene Expression and Cell Signalling/Epigenetic Effects Induced by Polycyclic Aromatic Hydrocarbons (P Steinberg) Indicator Assays for Polycyclic Aromatic Hydrocarbon-Induced Genotoxicity (H Glatt) Tumorigenicity of Polycyclic Aromatic Hydrocarbons (S Amin & K El-Bayoumy) Genetic Susceptibility to Polycyclic Aromatic Hydrocarbon-Induced Carcinogenesis (A Hirvonen) Polycyclic Aromatic Hydrocarbon-Induced Carcinogenesis — An Integrated View (A Luch) Readership: Graduate students, academics and researchers in toxicology, biochemistry, oncology and the life sciences. Keywords: PAH; Polycyclic Aromatic Hydrocarbon; Carcinogenesis; Genotoxicity  
*Polycyclic Aromatic Hydrocarbons* - 1983-01-01

*Polycyclic Aromatic Hydrocarbon Carcinogenesis* - 1988

**Xenobiotica** - 1987

The fate of foreign compounds in biological systems.

**Environmental Impact of Polynuclear Aromatic Hydrocarbons, 2007** - Chimezie Anyakora 2007-01-01

Contamination of the environment by polynuclear aromatic hydrocarbons (PAHs) is becoming a rising environmental concern. Since the implication of these compounds as cancer causing agents several years ago, there has been a renewed interest in them. Many regulatory bodies have continually pushed for tighter legislature on PAHs. Hundreds of research papers have focused on this subject. In these papers the angle of focus varies. Some focused on the impact on the environment in general, some focused on carcinogenesis, carcinogenicity and toxicity of these compounds. Others focused on the analytical methodologies. All these papers have contributed a lot to deeper understanding of the nature and importance of PAHs. This book is an attempt to assemble several experts in the field to bring out some up to date experiences in different aspects of PAHs hence allowing the impact on the environment to be better appreciated. This book is aimed at researchers, scientists and regulators in environmental sciences. It is made up of 14 chapters which focus on different aspect of PAHs. The chapters include:

Chemistry of Polynuclear Aromatic Hydrocarbons; Toxicity, gentocity and carcinocity of PAHs; Toxicokinetics of PAHs; Bioremediation of PAHs; Structure activity relationship of PAHs; Biomarkers of PAHs exposure; Impact of PAHs on marine organisms in polluted sites; Embryotoxicity of PAHs; Application of PAHs in Chemical Fingerprinting; Sample Preparation; Analysis of PAHs with HPLC; Analysis of PAHs with GC and Analysis of PAHs with MECC. The first chapter of the book serves as a brief introduction to PAHs. It focuses on the Chemistry of these compounds. It briefly describes classification, nomenclature, properties and reactions of PAHs, laying more emphasis on sixteen US EPA priority PAHs. The next chapter goes straight to the toxicity, genotoxicity and carcinogenicity of PAHs. This chapter reviews widely the important findings on the toxicity, cytotoxicity, ecotoxicity, neurotoxicity of PAHs. Epidemiological studies on PAHs are also reviewed and monitoring methods are well described. Third chapter reviews the vast literature on the toxicokinetics of PAHs. It briefly describes the concept of toxicokinetics in general (absorption, distribution metabolism and excretion) and the reviews important findings on the toxicokinetics of PAHs in the body. This chapter gives more emphasis on sixteen EPA priority PAHs especially benzo(a)pyrene because of the widespread study on them. Chapter four of this book deals with Biomarker of Exposure of PAHs. It reviews a total of 132 studies on biomarkers of PAHs exposure which include studies on children, and workers of various occupations. The review focuses on the use of urinary 1-hydroxypyrene (1-HP) as a biomarker of environmental and occupational exposure to PAHs. Chapter five of this book looks at Fish Embryos and PAH toxicity. Based on years of study, this chapter proposes that embryonic exposure to PAHs causes a wide variety of effects, many of which extend to later life stages including morphological defects, reduced growth, reduced predator avoidance and prey capture, depressed immune function, cancer, genetic changes, and population declines. This chapter is of great interest since most bioassay procedures do not capture the later life impact. The next chapter deals with Structure Activity Relationship. This handles the topic in a unique way by looking at PAH molecules that have been implicated

in cancer and correlating their carcinogenic activities with known structural features that promote the ability of the compound to bind to the DNA molecule. Chapter seven looks at the Impact of PAHs on Marine Organisms in Polluted Sites. This chapter shows the levels of PAH contamination in various regions across the world stressing their hazards. It also presents fate, uptake and elimination of PAHs from marine organisms. The next chapter deals with bioremediation of PAHs. This chapter describes various treatment methods for PAH contaminated soils including: incineration, fixation, solvent extraction wet oxidation, landfill and bioremediation, but focuses more on bioremediation method and technology. Chapter nine deals with the Application of PAHs in Chemical Fingerprinting. It reviews various diagnostic ratios that are employed in determining source specific information for contaminated sites. The last five chapters focus on the analysis of PAHs which are very important. Without a proper measurement for the amount of PAHs in the environment we will not be able to assess their impact. Among the chapters that focus on the analysis of PAHs the first two deal with pre analysis which are extraction and sample preparation. The others deal with PAH analytical techniques such as high performance liquid chromatography, gas chromatography and micellar electrokinetic capillary chromatography. Various chapters of this book were written by several scientists who have good experience in the field hence combining existing body of knowledge in the field with practical research findings. For instance, Dr. Mark Carls and Dr. Jeep Rice wrote on embryotoxicity which is mainly a result of their several years of study at NOAA Alaska. Prof. Philip Marrriot and his coauthors in their chapter on GC analysis of PAHs gave a great insight on the result of their research using GCxGC which they have been working on at Australian Centre for Research on Separation Sciences. Dr. Arbabi and his coauthors gave an insight on their research on bioremediation of PAHs in Iran. Dr. Hansen s chapter on Biomakers of PAHs exposure (coauthored by some of her colleagues) is a result of several years of research at the National Research Centre for the Working Environment, Denmark. Toxicity, genotocity and Carcinogenicity of PAHs written by Dr. Delia of National Institute of Occupational Safety and Prevention, Rome had a slant of her research and findings on PAH contamination over several years. The chapter on sample preparation was written by Dr. Marvin of Environment Canada who has been involved in PAH research at the agency for some years. Prof. John Hardley and his coauthors wrote on PAH extraction which is the core of their research. Dr. Said of National Institute of Oceanography and Fisheries, Egypt gave a good insight on the effect of PAH contamination on marine life in the world with more emphasis on the Red Sea. Prof. Gonzalez and his colleagues gave an overview based on extensive experience on HPLC analysis of PAHs, while Prof. Chang of Taiwan National University (and his coauthors) explored all the relevant issues in PAH analysis using MECC. Prof. Coker and I reviewed the extensive literature on Toxicokinetics of PAHs and Structure Activity Relationship of the compounds. This book is certainly not exhaustive but all the chapters were written with sufficient relevant and recent references to help both advanced and intermediate audience get deeper insight on the subject. There are a number of materials on PAHs which have played important role in this book. Polycyclic Aromatic Hydrocarbons by Ronald G. Harvey has been of great importance and provided initial reading for the first chapter of this book. I thank very much Prof. Zhendi Wang, who even though was not able to contribute to this book nominated a number of authors. Over these years of my research on PAHs, a number of people have played outstanding and prominent role, among them are Prof. Herbert Coker of University of Lagos and Prof. Pete Palmer of San Francisco State University. I thank very much Prof. Vincent Anigbogu, formerly at Clarke Atlanta University who was part of the initial plan for this book and who has encouraged and given important inputs throughout this period. Dr. Cornelius Uboh of University of Pennsylvania gave some useful insight for the book. I thank very much my colleagues at the University of Lagos especially Dr. Biodun Ayoola who read through some of the chapters and provided her kind input. I also wish to express my gratitude to some other scientists at the University of Lagos who are also seriously engaged in PAHs research namely Dr. Kehinde Olayinka and Prof. Babajide Alo, and so many colleagues and students with whom I have discussed this project.

**Development of a Structurally-specific Synthesis of Oligodeoxynucleotides Containing Polycyclic Aromatic Hydrocarbon Adducts at the N2 Site of Deoxyguanosine** - Monica Diane Cooper 1998

**Toxicological Profile for Polycyclic Aromatic Hydrocarbons** - 1995





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