MS	Ch. No.	Volume/section	Chapter title
		Volume 1 - General Principles (Bond)	
101	1.01	Introduction to Principles of	General Overview of Toxicology
		Toxicology	
102		Toxicokinetics	Exposure Science
103	1.03	Toxicokinetics	Oral Exposure and Absorption of Toxicants
104	1.04	Toxicokinetics	Inhalation Exposure and Absorption of Toxicants
105	1.05	Toxicokinetics	Dermal Exposure and Absorption of Chemicals and Nanomaterials
106	1.06	Toxicokinetics	The Application of ADME Principles in Pharmaceutical Safety Assessment
107	1.07	Toxicokinetics	Biotransformation of Toxicants
108	1.08	Toxicokinetics	Modeling of Disposition
109	1.09	Mechanisms	Toxicological Interactions of Chemical Mixtures
110	1.10.	Mechanisms	Experimental Models for the Investigation of Toxicological Mechanisms
111	1 11	Mechanisms	Biomarkers of Exposure, Effect, and Susceptibility
		Mechanisms	Cytolethality
		Mechanisms	Mitogenesis
		Mechanisms	Free Radicals and Reactive Oxygen Species
		Mechanisms	Reactive Electrophiles and Metabolic Activation
		Mechanisms	DNA-Reactive Agents
		Mechanisms	Xenobiotic Receptor-Mediated Toxicity
118		Mechanisms	Toxicogenomics, Proteomics, and Metabolomics
		Mechanisms	Modifications of Mitochondrial Function by Toxicants
		Risk Assessment	Risk Assessment
		Volume 2 - Cellular and Molecular	
		Toxicology (Ramos)	
201	2.01	Basic Principles	Introduction to Molecular Toxicology
202	2.02	Basic Principles	Molecular Toxicology - A Risk Assessment Perspective
203	2.03	Basic Principles	Receptor Theory and the Ligand-Macromolecule Complex
204	2.04	Basic Principles	Control of Gene Expression
205	2.05	Receptor Systems	Introduction and Overview of Receptor Systems
		Receptor Systems	Cell Surface Receptors
		Receptor Systems	Novel AHR Interactions
208		Receptor Systems	PAS Proteins: Comparative Biology and Proteasomal Degradation.
209	2.09	Receptor Systems	Peroxisome Proliferator-Activated Receptors

		Receptor Systems	Constitutive Androstane Receptor
	2.11	. 2	Modulation of Soluble Receptor Signaling by Coregulators
		Receptor Systems	Convergence of Multiple Nuclear Receptor Signaling
214	2.13	Receptor Systems	ARNT: A Key bHLH/PAS Regulatory Protein Across Multiple Pathways
215	2 14	Genetic and Epigenetic	Introduction and Overview of Genetic and Epigenetic Determinants
210	2.14	Determinants of Susceptibility to	of Susceptibility to Environmental Injury
		Environmental Injury	or odocoptionity to Environmental injury
216	2 15	Genetic and Epigenetic	Molecular Biomarkers
		Determinants of Susceptibility to	
		Environmental Injury	
217	2.16	Genetic and Epigenetic	Inherited Susceptibility to Complex Disease
		Determinants of Susceptibility to	,,,,,
		Environmental Injury	
218	2.17	Genetic and Epigenetic	Modeling Genetic Susceptibility to Disease
		Determinants of Susceptibility to	
		Environmental Injury	
219	2.18	Genetic and Epigenetic	Epigenetics
		Determinants of Susceptibility to	
		Environmental Injury	
220	2.19	. •	Chromatin Remodeling
		Determinants of Susceptibility to	
		Environmental Injury	
221	2.20.	Genetic and Epigenetic	DNA Damage Response
		Determinants of Susceptibility to	
000	0.04	Environmental Injury	LINE 4
222	2.21		LINE-1
		Determinants of Susceptibility to	
222	2.22	Environmental Injury Genetic and Epigenetic	Physiological and Bathological Functions of Mammalian
223	2.22	Determinants of Susceptibility to	Physiological and Pathological Functions of Mammalian MicroRNAs
		Environmental Injury	INICIONINAS
224	2 23	Alterations in Cell Signaling	Introduction and Overview of Alterations in Cell Signaling
		Alterations in Cell Signaling	Protein Kinases
		Alterations in Cell Signaling	Heavy Metal-regulated Gene Expression
		Alterations in Cell Signaling	Antioxidant Induction of Gene Expression
		Alterations in Cell Signaling	Hypoxia/Ischemia Signaling
		Alterations in Cell Signaling	Apoptosis
		Alterations in Cell Signaling	Regulation of Xenobiotic Sensor PXR and AhR by NF-k Band Its
			Roles in Xenobiotic Detoxification and Inflammation Associated
			Carcinogenesis

222	2 20	Alterations in Cell Signaling	Calcium and Proteases
		Alterations in Cell Signaling	Estrogenic Endocrine Disruptors: Molecular Characteristics and Human Impacts
235	2 32	Technological Advances and	Introduction and Overview of Technological Advances and
200	2.02	Predictive Assays	Predictive Assays
236	2.33	Technological Advances and	Genomics, Bioinformatics and Computational Biology
		Predictive Assays	
237	2.34	Technological Advances and	Interpretation of Toxicogenomics Data
		Predictive Assays	
239	2.35	Technological Advances and	Metabolomics-Edited Transcriptomics Analysis (Meta)
		Predictive Assays	
240	2.36	Technological Advances and	Nonotoxicology
044	0.07	Predictive Assays	Functional Commission Haraconina Callular and Outrallular
241	2.37	Technological Advances and Predictive Assays	Functional Genomics: Uncovering Cellular and Subcellular Mechanisms of Action
242	2.38	Technological Advances and	Emerging Concepts and Techniques
272	2.50	Predictive Assays	Emerging Concepts and Techniques
		. roundard ricour, c	
		Volume 3 - Toxicology Testing and	
		Evaluation (Lamb)	
	3.01		Introduction to Toxicology Testing and Evaluation
302	3.02		Assessing Risks to Human Health
	3.03		Safety Assessment of Pharmaceuticals
308	3.04		Considerations for the Preclinical Safety Evaluation of
			Biopharmaceuticals
	3.05		Safety Assessment of Nanotechnology Products
	3.06		Occupational Toxicology Testing
312	3.07		Standards of Good Practice for the Conduct of Regulated
242	2.00		Nonclinical Safety Studies
	3.08 3.09		Animal Care and Use in Toxicity Testing
	3.10.		Carcinogenicity Studies
	3.10. 3.11		Genetic Toxiclogy Testing Reproductive and Developmental Toxicity Studies
	3.12		Human Clinical Safety Assessment Procedures
	3.12		Statistical Methods in Toxicology
	3.14		Ocular and Dermal Local Tissue Tolerance Studies
	3.15		Immunotoxicity Studies
	3.16		Inhalation Toxicology Studies
	3.16		Alternatives to Conventional Toxicology Testing
324	3.17		Alternatives to Conventional Toxicology Testing

Volume 4 - Biotransfo	rmation
(Guengerich)	

		(Guengench)	
	4.01		Biotransformation: Introduction & historical perspective
402	4.02		Enzyme regulation
403	4.03		Mechanisms of enzyme cataylsis and inhibition
404	4.04		Cytochrome P450 Enzymes
405	4.05		Monoamine Oxidases and Flavin-Containing Monooxygenases
406	4.06		Alcohol dehydrogenases
407	4.07		Aldehyde dehydrogenases
408	4.08		Aldo-keto reductases
409	4.09		Peroxidases
410	4.10.		Xanthine Oxidoreductase and Aldehyde Oxidase
411	4.11		Quinone Reductases
412	4.12		Superoxide dismutase and catalase
413	4.13		Glutathione peroxidases
414	4.14		Esterases
415	4.15		Mammalian Epoxide Hydrolases
416	4.16		Glutathione Transferases
417	4.17		Enzymes involved in processing glutathione conjugates
418	4.18		Sulfotransferases
419	4.19		Arylamine N-acetyltransferases
420	4.20.		UDP-Glucuronosyltransferases
421	4.21		Methyltransferases
422	4.22		Enzymology of amino acid conjugation reactions
423	4.23		Sulfurtransferase Enzymes Involved in Cyanide Metabolism
424	4.24		Metallothonein and Intracellular Sequestration of Metals
425	4.25		Uptake Transporters
426	4.26		Efflux Transporters
		Volume 5 - Immune System	
		Toxicology (Lawrence)	
	5.01		Overview of the Immune System and Immunotoxicology
	5.02		B-cell development
	5.03		Natural Killer cells
	5.04		Regulatory T Cells
	5.05		Cytotoxic T cells
	5.06		Phagocytes
	5.07		Dendritic cells
609	5.08		Lymphoid Tissue and Pathological Influences of Toxicants

	5.09		Pulmonary Immunology
611	5.10.		Mucosal Immunity
612	5.11		Skin Immunology and Immunotoxicity
613	5.12		Neuroimmunology
614	5.13		Reproductive and Developmental Immunology
615	5.14		Leukocyte Trafficking
616	5.15		Antigen processing and presentation
617	5.16		Inflammation and Organ Failure
619	5.17		Antigen-specific signal transduction
620	5.18		Redox Regulation of Transcription by Cigarette Smoke
621	5.19		Chemically induced allergy and autoimmunity
622	5.20.		Hypersensitivity Reactions in the Respiratory Tract
623	5.21		Contact hypersensitivity
624	5.22		Autoimmune models
625	5.23		Environment/drug-induced human autoimmune disease
626	5.24		Immunological aging
627	5.25		Immunotoxicology of Pesticides and Chemotherapies
629	5.26		Immunotoxicology of Biopharmaceutics
630	5.27		Immunotoxicology of biological response modifiers
	5.28		Stress and immune functions
632	5.29		Immunomodulation by Endogenous Stress Response Proteins
633	5.30.		Methods to assess immunotoxicity
		Volume 6 - Cardiovascular	
704	0.04	Toxicology (Walker)	
701	6.01	Introduction to Cardiovascular Biology	Cardiovascular System as a Target of Drug- and Xeniobiotic-induced Toxicity: Overview
702	6.02	Introduction to Cardiovascular Biology	Cardiovascular Development
102	0.02	introduction to Cardiovascular Biology	Oditilovasculai Developilient
703	6.03	Introduction to Cardiovascular Biology	Vascular Physiology and Pharmacology
704	6.04	Introduction to Cardiovascular Biology	Cardiac Physiology and Pharmacology
		Methods of Analysis	In vitroVascular Cell Culture Systems - Vascular Smooth Muscle
		Methods of Analysis	In vitroCultured Cardiomyocytes for Evaluating Cardiotoxicity
		Methods of Analysis	Assessment of Vascular Reactivity
708		Methods of Analysis	Morphological Evaluation of the Heart and Blood Vessels
709	6.09	Methods of Analysis	Systemic Arterial Blood Pressure in Safety

710	6.10.	Methods of Analysis	Manganese-Enhanced Magnetic Resonance Imaging: Applications
711	6 44	Conoral Principles of CV Coll Injury	to Preclinical Research Oxidative Stress and Heart Failure
		General Principles of CV Cell Injury	
		General Principles of CV Cell Injury	Oxidants and endothelial dysfunction
		General Principles of CV Cell Injury	Mechanical forces and vascular injury
		Mechanisms of Drug-Induced Cardiovascular Toxicity	Cardiotoxicity and HIV/AIDS Therapy
715	6.15	Mechanisms of Drug-Induced	Transplacental Exposure to Antiretroviral Drugs and Cardiotoxicity
		Cardiovascular Toxicity	in Offspring
716	6.16	Mechanisms of Drug-Induced	NSAIDs and Cardiovascular Toxicity
		Cardiovascular Toxicity	
717	6.17	Mechanisms of Drug-Induced	Drugs of abuse and cardiotoxicity
		Cardiovascular Toxicity	
718	6.18	Mechanisms of Drug-Induced	latrogenic QT prolongation
		Cardiovascular Toxicity	
719	6.19	Mechanisms of Drug-Induced	Cardiotoxicity associated with Thiazolidinediones
		Cardiovascular Toxicity	
726	6.20.	Mechanisms of Drug-Induced	Anthracycline, Herceptin, and CV Toxicity
		Cardiovascular Toxicity	
720	6.21	Mechanisms of Xenobiotic-Induced	Environmentally induced Heart Malformations
		Cardiovascular Toxicity	
721	6.22	Mechanisms of Xenobiotic-Induced	Metals and Cardiovascular Disease
		Cardiovascular Toxicity	
722	6.23	Mechanisms of Xenobiotic-Induced	Air Pollution and Cardiovascular Disease
		Cardiovascular Toxicity	
723	6.24	Mechanisms of Xenobiotic-Induced	Aldehydes and Cardiovascular Disease
		Cardiovascular Toxicity	
724	6.25	Mechanisms of Xenobiotic-Induced	1,3-Butadiene and Cardiovascular Disease
		Cardiovascular Toxicity	
725	6.26	Mechanisms of Xenobiotic-Induced	Halogenated Aromatic Hydrocarbons and Cardiovascular Disease
		Cardiovascular Toxicity	
727	6.27	Methods of Analysis	In Vitro Vascular Cell Culture Systems - Endothelial cells
728	6.28	Methods of Analysis	Isolated Heart Preparation
		Volume 7- Renal Toxicology	
		(Schnellmann)	
	7.01		Functional Anatomy of the Kidney
802	7.02		Renal Organic Cation and Anion Transport: From Physiology to
			Genes
803	7.03		Renal Xenobiotic Metabolism
804	7.04		Mechanisms of Toxicant-Induced Acute Kidney Inury

805	7.05	Cytoprotective Systems within the Kidney
806	7.06	Biomarkersof Acute Kidney Injury
807	7.07	Mechanisms of Renal Repair and Regeneration
808	7.08	Acute Kidney Injury
810	7.09	Vasoactive Substances as Mediators of Renal Injury
811	7.10.	The Glomerulus: Mechanisms of Injury
813	7.11	Cell adhesion Molecules in Renal Injury
814	7.12	In Vivo Methodologies Used to Assess Renal Function and Injury
817	7.13	Aminoglycoside-Induced Nephrotoxicity
818	7.14	Amphotericin B-Induced Nephrotoxicity
820	7.15	Radio-Contrast-Induced Nephrotoxicity
821	7.16	NSAIDS, Analgesics, and ACE-Induced Nephrotoxicity
822	7.17	Nephrotoxicity of Lithium and Drugs of Abuse
823	7.18	Nephrotoxicity of Natural Products: Aristolochic Acid and Fungal
		Toxins
824	7.19	Halogenated Hydrocarbons
826	7.20.	Renal Handling and Toxicity of Mercury
827	7.21	Other Nephrotoxic Metals and Nanometallic Particles
828	7.22	a2u-Globulin Nephropathy

Volume 8 - Respiratory Toxicology (Yost)

1536	Prefac `	Preface
	е	
901	8.01	Introduction to Respiratory Toxicology
902	8.02	Nasal Airways
903	8.03	Tracheobronchial Airways
904	8.04	Alveolar Epithelium in Lung Toxicology
905	8.05	Inflammatory Cells of the Lung: Macrophages
906	8.06	Inflammatory Cells of the Lung: Polymorphonuclear Leukocytes
929	8.07	Neurogenic Inflammation - TRP Ion Channels in the Lung
907	8.08	Pulmonary Mechanical Function and Gas Exchange
908	8.09	Biochemical Function of the Respiratory Tract: Metabolism of
		Xenobiotics
909	8.10.	Carcinogenic Responses of the Respiratory Tract
910	8.11	Pulmonary Developmental Responses to Toxicants
911	8.12	Cell Damage and Cell Renewal in the Lung
912	8.13	In Vitro Systems for Studying Respiratory System Toxicology
913	8.14	Ozone and Oxygen Toxicity

	8.15		Sulfur Oxides
	8.16		Aldehydes
917	8.17		Crystalline Silica and Silicosis
919	8.18		Carcinogenic Effects of Cigarette Smoke on the Respiratory Tract
920	8.19		Noncarcinogenic Effects of Cigarette Smoke on the Respiratory Tract
921	8.20.		Radon
922	8.21		Toxicity of Airborne Metals
923	8.22		Particle Toxicities
928	8.23		Nanoparticles in the Lung
924	8.24		The Pulmonary Toxicity of Anticancer Agents
926	8.25		Selected Pneumotoxic Agents
		Volume 9 - Hepatic Toxicology	
		(Roth/Ganey)	
1001	9.01		Introduction to the liver and its response to toxicants
1002	9.02		Structure and function of hepatic parenchymal cells
1003	9.03		Hepatic Sinusoidal cells: Endothelial Cells, Kupffer Cells, Stellate
			Cells, and Liver-Associated Lymphocytes
1004	9.04		Anatomy and physiology of the biliary epithelium
1005	9.05		Regulation of xenobiotic metabolism in the liver
1006	9.06		Evaluation of Hepatotoxicity: Physiological and Biochemical
			Measures of Hepatic Function in Animals
1007			Histologic patterns of hepatotoxic injury
1008			Regulation of hepatobiliary transporters during liver injury
1009	9.09		Chemicals with carcinogenic activity in rodent liver
1010	9.10.		Mechanisms of hepatic steatosis
1011	9.11		Mechanisms of Liver Fibrosis
1030	9.12		The Adaptive Immune System and Liver Toxicity
1031	9.13		Inflammation and hepatotoxicity
1012	9.14		Antioxidant Defense Mechanisms
1013	9.15		Liver Regeneration and Tissue Repair
1014	9.16		Clinical considerations of drug-induced hepatotoxicity
1015	9.17		Idiosyncratic Drug-induced Liver Injury: Mechanisms and
			Susceptibility Factors
1016	9.18		Comparative hepatotoxicology
1017	9.19		Ethanol-induced hepatotoxicity
1018	9.20.		Carbon tetrachloride-induced hepatotoxicity

1019			Mechanisms of Acetaminophen Hepatotoxicity
1021			Pesticides and Hepatotoxicity
1022			Hepatotoxicity of Copper, Iron, Cadmium and Arsenic
1023			Hepatotoxic mycotoxins
1024			Alpha-naphthylisothiocyanate
1025	9.26		Hepatotoxicity of Reactive Aldehydes
1026	9.27		Pyrrolizidine Alkaloid-Induced Hepatotoxicity
1027	9.28		Endotoxin-induced Hepatotoxicity
1029	9.29		Thioacetamide
		Volume 10 - Gastrointestinal	
		Toxicology (Hooser)	
855	10.01		Introduction: The Gastrointestinal Tract
850	10.02		Anatomy and Histology of the Digestive Tract
851	10.03		Gastrointestinal System: Overview of Physiology
843	10.04		Gastrointestinal Immune System
844	10.05		Metabolic barrier of the GI tract
847	10.06		Absorption, enterohepatic circulation, and fecal excretion of
			toxicants
856	10.07		Pathologic Response of the Gastrointestinal Tract to Toxicants
	10.08		Pathophysiological Mechanisms of Gastrointestinal Toxicity
845	10.09		Methods for Analysis of Gastrointestinal Toxicants
846	10.10.		Ricin
849	10.11		Nonsteroidal Anti-Inflammatory Drug-Induced Toxicity
852	10.12		Antineoplastic Drugs
854	10.13		Clinical Toxicity: Esophagus
1537	10.14		Clinical Toxicology of Common Drugs and Chemicals in Humans: Stomach
1538	10.15		Clinical Toxicology of Common Drugs and Chemicals: Colon
848	10.16		Comparative Gastrointestinal Toxicity
		Volume 11 - Reproductive and Endocrine Toxicology (Richburg/Hoyer)	
1101	11.01	Male Reproductive Toxicology: Overview	Male Reproductive Toxicology
1102	11.02	Male Reproductive Toxicology: Overview	Anatomy and Physiology of the Male Reproductive System and Potential Targets of Toxicants

1103	11.03	Male Reproductive Toxicology: Strategies for Evaluation	Evaluation of a Male Reproductive Toxicant
1104	11.04	Male Reproductive Toxicology: Strategies for Evaluation	Evaluation of an Infertile Transgenic Male Animal
1106	11.05	Male Reproductive Toxicology: Mechanisms and Manifestations	The Sertoli Cell as a Target for Toxicants
1107	11.06	Male Reproductive Toxicology: Mechanisms and Manifestations	The Male Germ Cell as a Target for Toxicants
1108	11.07	Male Reproductive Toxicology: Mechanisms and Manifestations	The Leydig Cell as a Target for Toxicants
		Male Reproductive Toxicology: Mechanisms and Manifestations	The Epididymis as a Target for Toxicants
		Male Reproductive Toxicology: Mechanisms and Manifestations	Cell Junctions in the Testis as Targets for Toxicants
		Male Reproductive Toxicology: Mechanisms and Manifestations	Immunology of the Testis and Male Reproductive Tract
1113	11.11	Male Reproductive Toxicology: Mechanisms and Manifestations	Environmental Endocrine Disruptors and Male Reproductive Toxicology
1136	11.12	Male Reproductive Toxicology: Mechanisms and Manifestations	Testicular Cancer
1115	11.13	Reproductive Toxicology: Endocrine Toxicology	Toxic Responses of the Adrenal Cortex
1116	11.14	Reproductive Toxicology: Endocrine Toxicology	Toxic Responses of the Adrenal Medulla
1119	11.15	Reproductive Toxicology: Endocrine Toxicology	Toxicity to the Insulin-secreting Beta Cell
1120	11.16	Female Reproductive Toxicology: Overview	Female Reproductive Toxicology
1121	11.17	Female Reproductive Toxicology: Overview	Differentiation and Funcion of the Female Reproductive System
1122	11.18	Female Reproductive Toxicology: Disruptions of Reproductive Function	Neuroendocrine Control of Female Reproduction
1123	11.19	Female Reproductive Toxicology: Disruptions of Reproductive Function	Ovarian Toxicology
1124	11.20.	Female Reproductive Toxicology: Disruptions of Reproductive Function	Targeting female reproductive function during follicular maturation, ovulation and fertilization: Critical windows for pharmaceutical or toxicant action

1125	11.21	Female Reproductive Toxicology: Disruptions of Reproductive Function	Embryo-Uterine Interactions During Implantation: Potential Sites of Interference by Environmental Toxins
1126	11.22	Female Reproductive Toxicology: Disruptions of Reproductive Function	Lactation and Contamination of Breast Milk with Xenobiotics
1127	11.23	Female Reproductive Toxicology: Metabolism of Xenobiotics	Ovarian Metabolism of Xenobiotics
1128	11.24	Female Reproductive Toxicology: Metabolism of Xenobiotics	Placental Metabolism of Xenobiotics
1129	11.25	Female Reproductive Toxicology: Female Reproductive Cancers	Ovarian Cancer and the Environment: Rodent Models
		Female Reproductive Toxicology: Female Reproductive Cancers	Uterine Tumors and the Environment
1132	11.27	Female Reproductive Toxicology: Translational Considerations and New Approaches	Risk Assessment Studies: Epidemiology
1133	11.28	Female Reproductive Toxicology: Translational Considerations and New Approaches	Menopause and Hormone Replacement Therapy
1134	11.29	Female Reproductive Toxicology: Translational Considerations and New Approaches	In Vitro Ovarian Model Systems
1135	11.30.	Female Reproductive Toxicology: Translational Considerations and New Approaches	Genetic Mouse Models for Female Reproductive Toxicology Studies
		Volume 12 - Developmental Toxicology (Knudsen/Daston)	
1501	12.01	Developmental Toxicology: Overview	Foreword
1503	12.02	Concepts	Fundamental concepts, current regulatory design and interpretation
1504	12.03	Concepts	Embryotoxicity: Anatomical, Physiological, and Functional
		Concepts	Pharmacokinetics and Pbpk models
1507	12.05	Concepts	The National Children's Study: Linking Exposures to Effects in Children's Environmental Health
1508	12.06	Concepts	Epigenetics and the Developmental Origins of Health and Disease
		Concepts	Epigenetic transgenerational toxicology
1510	12.08	Concepts	The Role of biotransformation in developmental toxicity

		Concepts	Analysis of altered gene expression in diabetic embryopathy
1514 1	12.10.	Concepts	Epidemiological Factors in Developmental Toxicology
1515	12.11	Concepts	Individual (personalized) vulnerabilities
1516	12.12	Selected Examples	Maternally-mediated developmental toxicity
1518	12.13	Selected Examples	Developmental Toxicity of Antiepileptic Drugs
1519	12.14	Selected Examples	Fumonisin, Folate and Neural Tube Defects
1520	12.15	Selected Examples	Metals and cell adhesion
1522	12.16	Selected Examples	Alcohol and Cell death
1523	12.17	Selected Examples	Intrauterine infection
1524	12.18	Research Strategies	Methods for Detection of Developmental Toxicity
1525	12.19	Research Strategies	Developmental neurotoxicology
		Research Strategies	Alternative methods in developmental toxicology
1529	12.21	Research Strategies	Computational toxicology
1531	12.22	Research Strategies	The DevTox Site: harmonized Terminology and database
1532	12.23	Research Strategies	Virtual tissues and developmental systems biology
		Volume 13 - Nervous System and	
		Behavioural Toxicology (Philbert)	
1301	13.01	Nervous System and Behavioural	Introduction to the Nervous System and Behavioural Toxicology
		Toxicology: Overview	
1302	13.02	Structure and Function of the	Fundamentals of the Structure and Function of the Nervous
		Nervous System	System
1303	13.03	Responses and Defenses of the	Selective Vulnerability in the Nervous System
		Nervous System to Xenobiotics	
1304	13.04	Responses and Defenses of the	Degenerative and Regenerative Events in the Central and
		Nervous System to Xenobiotics	Peripheral Nervous System
1305	13.05	Responses and Defenses of the	Neurotoxicant-Induced Oxidative Events and Antioxidative
		Nervous System to Xenobiotics	Interventions in the Central Nervous System
1306	13.06	Organelles and Cells in Neural	Cytoskeletal Elements in Neurotoxicity
		Tissues	
1307	13.07	Organelles and Cells in Neural	Cell Signaling and Neurotoxicity
		Tissues	
1309	13.08	Organelles and Cells in Neural	Neurotransmitter Receptors
		Tissues	
1310	13.09	Organelles and Cells in Neural	Ion Channels
		Tissues	
1311 1	13.10.	Organelles and Cells in Neural	Protein Phosphatase 1 as a Potential Mediator of Aluminum
		Tissues	Neurotoxicity

1312	13.11	Organelles and Cells in Neural Tissues	Myelin and Myelination
1313	13.12	Organelles and Cells in Neural Tissues	Glial Cells
1314	13.13	Systems and Whole Animal Responses	Toxicology of the Neuromuscular Junction
		Systems and Whole Animal Responses	Auditory Toxicology
		Systems and Whole Animal Responses	Olfactory System
		Systems and Whole Animal Responses	The Developing Nervous System
		Systems and Whole Animal Responses	Neural, Behavioral, and Measurement Considerations in the Detection of Motor Impairment
1319	13.18	Systems and Whole Animal Responses	Somatosensory Neurotoxicity: Agents and Assessment Methodology
1320	13.19	Systems and Whole Animal Responses	Behavioral Screening for Toxicology
1321	13.20.	Systems and Whole Animal Responses	Intermittent Schedules of Reinforcement as Toxicological Endpoints
1322	13.21	Systems and Whole Animal Responses	Cognitive Function
1323	13.22	Systems and Whole Animal Responses	Human Nervous System and Behavioral Toxicology
1324	13.23	Use of <i>In Vivo</i> and <i>In Vitro</i> Systems in Neurological Systems	In VivoSystems: Animal Models of Neurodegeneration
1325	13.24	Use of <i>In Vivo</i> and <i>In Vitro</i> Systems in Neurological Systems	In VitroSystems in Neurotoxicological Studies
1326	13.25	Selected Neurotoxic Agents - Pesticides	Anticholinesterase Insecticides
1327	13.26	Selected Neurotoxic Agents - Pesticides	Organochlorine and Pyrethroid Insecticides
1328	13.27	Selected Neurotoxic Agents - Others	Neuronal Targets of Lead in the Hippocampus: Relationship to Low Level Lead Intoxication
1329	13.28	Selected Neurotoxic Agents - Others	Neurotoxicology of Metals
1330	13.29	Selected Neurotoxic Agents - Others	Botanical Neurotoxins
1331	13.30.	Selected Neurotoxic Agents - Others	Excitotoxicity

Volume 14 - Carcinogenesis (Roberts)

	(Roberts)	
1401	14.01	Introduction to Neoplasia
1402	14.02	Multistage Carcinogenesis: Cell and Animal Models
1403	14.03	Nongenotoxic Carcinogenesis
1404	14.04	DNA repair mechanisms and initiation in carcinogenesis
1405	14.05	Carcinogenic Alkylating Agents
1407	14.06	Carcinogenic Polycyclic Aromatic Hydrocarbons
1408	14.07	Carcinogenic Mycotoxins
1409	14.08	Carcinogenic Inorganic Chemicals
1410	14.09	Ultraviolet Radiation as a Carcinogen
1411	14.10.	Ionizing Radiation as a Carcinogen
1412	14.11	The role of cell proliferation in the etiology of neoplasia
1413	14.12	Viruses and Carcinogenesis
1414	14.13	Occupational Carcinogenesis
1415	14.14	Epigenetics and Carcinogenesis
1416	14.15	Cellular and Molecular Mechanisms of Tumor Promotion
1417	14.16	Mechanisms of tumor progression
1418	14.17	Receptor-mediated carcinogenesis
1419	14.18	Genetic Determinants of Cancer Susceptibility
1420	14.19	Inflammation in Carcinogenesis
1421	14.20.	Chemoprevention
1422	14.21	Diet and Cancer