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Titolo	Biomarkers in Trauma, Injury and Critical Care // edited by Rajkumar Rajendram, Victor R. Preedy, Vinood B. Patel
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
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Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (1203 pages)
Collana	Biomarkers in Disease: Methods, Discoveries and Applications, , 2542-3665
Disciplina	371 610.28
Soggetti	Biochemical markers Cytology Stress (Physiology) Cardiovascular system Physiology Cardiology Neurology Diagnosis Biomarkers Cellular Stress Cardiovascular Physiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Biomarkers and outcomes: the example of traumatic brain injury -- Biomarkers in neurological injury: fibrinogen and beyond -- Biomarkers for liver injury: micro RNAs and beyond -- Biomarkers in muscle injury: proteomic and beyond -- Biomarkers in lung injury: -- Biomarkers and penetrating thoracic trauma -- Biomarkers in renal injury -- Biomarkers of heart muscle damage and injury: mRNA expression and beyond -- Biomarkers of burn severity -- Biomarkers and prognosis in sepsis: muscle mass and beyond -- Biomarkers of acute inflammation in polytrauma -- Electrolytes in critical care as a biomarker -- Critical care and 5'-Aminolevulinate synthase 2 (ALAS2) expression as a

biomarker -- miRNAs as biomarkers of critically ill patients -- C-Reactive protein and implications to the Neonatal Intensive Care Unit -- ¹²⁹Xe magnetic resonance imaging (MRI) as a biomarker and implications for critical care -- Gas imaging of aeration and fractional ventilation as a biomarker in critical care -- Circulating PD-1/2B4 CD8+ T-cells patterns as biomarkers and the ICU -- Collagen and fibrotic biomarkers in critical care -- Biomarker mortality prediction model for sepsis in critical care: parsimonious modelling and beyond -- Acute kidney injury in critical care and biomarkers -- Platelet Function Assays in trauma -- Coagulation tests and fibrinogen concentrate in trauma -- Biomarkers and the time window-in trauma patients -- Inflammatory biomarkers in animal model of brain Injury. .

Sommario/riassunto

This handbook systematically presents biomarkers for traumatic injuries. The book covers topics such as traumatic brain injury, liver injury, burn severity, muscle heart damage, and acute inflammation in polytrauma and their detection by biomarkers. Biomarkers and methods used in critical care and critically ill patients are discussed, as well as biomarkers in trauma and special conditions. Specific biomarker components are explained and models for modeling trauma in research are presented. This systematic handbook is an excellent resource for researchers and specialists in trauma research and treatment, as well as clinicians and physicians who want a thorough overview of various injuries, trauma, and their detection methods.

2. Record Nr.	UNINA9910972831003321
Autore	Jorgensen Sven Erik
Titolo	Environmental Management Handbook, Second Edition - Six Volume Set
Pubbl/distr/stampa	Milton : , : Taylor & Francis Group, , 2020 ©2021
ISBN	9781000082548 1000082547
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (3829 pages)
Collana	Applied Ecology and Environmental Management Series
Altri autori (Persone)	FathBrian D
Disciplina	371.7/80941
Soggetti	Child welfare
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Volume1 -- Cover -- Half Title -- Series Page -- Title Page -- Copyright Page -- Table of Contents -- Preface -- Editors -- Contributors -- Section I: Anthropogenic Chemicals: Human Manufactured and Activities -- 1: Acaricides -- 2: Endocrine Disruptors -- 3: Herbicides -- 4: Herbicides: Non-Target Species Effects -- 5: Insecticides: Aerial Ultra-Low-Volume Application -- 6: Neurotoxicants: Developmental Experimental Testing -- 7: Persistent Organic Pesticides -- 8: Pollutants: Organic and Inorganic -- 9: Pollution: Genotoxicity of Agrotoxic Compounds -- 10: Pollution: Pesticides in Agro-Horticultural Ecosystems -- 11: Pollution: Pesticides in Natural Ecosystems -- 12: Polychlorinated Biphenyls (PCBs) -- 13: Toxic Substances -- Section II: Natural Elements and Chemicals -- 14: Allelochemicals -- 15: Aluminum -- 16: Boron: Soil Contaminant -- 17: Cadmium: Toxicology -- 18: Carbon: Soil Inorganic -- 19: Chromium -- 20: Cobalt and Iodine -- 21: Copper -- 22: Globalization -- 23: Heavy Metals -- 24: Inorganic Carbon: Composition and Formation -- 25: Lead: Ecotoxicology -- 26: Lead: Regulations -- 27: Mercury -- 28: Mycotoxins -- 29: Nitrogen -- 30: Phenols -- 31: Phosphorus: Agricultural Nutrient -- 32: Potassium -- 33: Radionuclides -- 34: Rare Earth Elements -- 35: Strontium -- 36: Sulfur -- 37: Sulfur Dioxide -- 38: Vanadium and Chromium Groups -- Section III: Basic Environmental Processes -- 39: Adsorption -- 40: Cadmium and Lead: Contamination

-- 41: Heavy Metals: Organic Fertilization Uptake -- 42: Inorganic Carbon: Global Carbon Cycle -- 43: Inorganic Carbon: Modeling -- 44: Inorganic Compounds: Eco-Toxicity -- 45: Leaching -- 46: Aquatic Communities: Pesticide Impacts -- 47: Phosphorus: Riverine System Transport -- 48: Nitrogen: Biological Fixation -- 49: Nutrients: Best Management Practices.
50: Nutrients: Bioavailability and Plant Uptake -- 51: Nutrient-Water Interactions -- 52: Pollution: Non-Point Source -- 53: Pollution: Point Sources -- 54: Radioactivity -- 55: Telecouplings -- Index -- Volume2 -- Cover -- Half Title -- Series Page -- Title Page -- Copyright Page -- Table of Contents -- Preface -- Editors -- Contributors -- Section I: APC: Anthropogenic Chemicals and Activities -- 1: Animals: Sterility from Pesticides -- 2: Bacillus Thuringiensis: Transgenic Crops -- 3: Biopesticides -- 4: Birds: Chemical Control -- 5: Birds: Pesticide Use Impacts -- 6: Insect Growth Regulators -- Section II: COV: Comparative Overviews of Important Topics for Environmental Management -- 7: Biodiversity and Sustainability -- 8: Biofertilizers -- 9: Ecosystems: Large-Scale Restoration Governance -- 10: Ecosystems: Planning and Trade-Offs -- 11: Natural Enemies: Conservation -- 12: Pests: Landscape Patterns -- Section III: CSS: Case Studies of Environmental Management -- 13: Biological Control of Vertebrates: Myxoma Virus and Rabbit Hemorrhagic Disease Virus as Biological Controls for Rabbits -- 14: Cabbage Disease Ecology and Management -- 15: Natural Enemies and Biocontrol: Artificial Diets -- Section IV: DIA: Diagnostic Tools: Monitoring, Ecological Modeling, Ecological Indicators, and Ecological Services -- 16: Animals: Toxicological Evaluation -- 17: Bioindicators for Sustainable Agroecosystems -- 18: Ecological Indicators: Eco-Exergy to Emergy Flow -- 19: Ecological Indicators: Ecosystem Health -- 20: Sustainable Fisheries: Models and Management -- Section V: ENT: Environmental Management using Environmental Technologies -- 21: Bioremediation: Contaminated Soil Restoration -- 22: Biotechnology: Pest Management -- 23: Plant Pathogens (Fungi): Biological Control -- 24: Plant Pathogens (Viruses): Biological Control.
25: Stored-Product Pests: Biological Control -- 26: Weeds (Insects and Mites): Biological Control -- Section VI: NEC: Natural Elements and Chemicals Found in Nature -- 27: Antagonistic Plants -- 28: Arthropod Host-Plant Resistant Crops -- 29: Biomass -- 30: Nematodes: Biological Control -- Section VII: PRO: Basic Environmental Processes -- 31: Agroforestry: Water Use Efficiency -- 32: Bacterial Pest Control -- 33: Bioaccumulation -- 34: Biodegradation -- 35: Biological Control of Vertebrates -- 36: Biological Controls -- 37: Biological Factors Impeding Recovery of Predatory Fish Populations -- 38: Bioremediation -- 39: Composting -- 40: Insects and Mites: Biological Control -- 41: Invasion Biology -- Index -- Volume3 -- Cover -- Half Title -- Series Page -- Title Page -- Copyright Page -- Table of Contents -- Preface -- Editors -- Contributors -- Section I: APC: Anthropogenic Chemicals -- 1: Agricultural Soils: Nitrous Oxide Emissions -- 2: Agriculture: Energy Use and Conservation -- 3: Agriculture: Organic -- 4: Erosion by Water: Accelerated -- 5: Erosion: Irrigation-Induced -- 6: Pesticide Translocation Control: Soil Erosion -- 7: Pesticides -- 8: Salt-Affected Soils: Sustainable Agriculture -- 9: Sodic Soils: Irrigation Farming -- Section II: COV: Comparative Overviews of Important Topics For Environmental Management -- 10: Agricultural Soils: Carbon and Nitrogen Biological Cycling -- 11: Agricultural Soils: Phosphorus -- 12: Erosion and Global Change -- 13: Erosion and Precipitation -- 14: Erosion: History -- 15: Erosion by Wind: Global Hot Spots -- 16: Erosion by Wind: Principles -- 17: Erosion: Snowmelt -- 18: Erosion:

Soil Quality -- 19: Farming: Organic -- 20: Global Climate Change: World Soils -- 21: Integrated Farming Systems -- 22: Organic Soil Amendments -- 23: Pasturelands, Rangelands, and Other Grazing Social-Ecological Systems.

24: Salt-Affected Soils: Physical Properties and Behavior -- 25: Sodic Soils: Properties -- 26: Soil Degradation: Global Assessment -- 27: Soil Erosion and Carbon Dioxide -- 28: Soil Quality: Carbon and Nitrogen Gases -- 29: Sustainable Agriculture: Soil Quality -- Section III: CSS: Case Studies of Environmental Management -- 30: Drought and Agricultural Production in the Central Andes -- 31: Mines: Rehabilitation of Open Cut -- Section IV: DIA: Diagnostic Tools: Monitoring, Ecological Modeling, Ecological Indicators, and Ecological Services -- 32: Bioenergy Crops: Carbon Balance Assessment -- 33: Erosion by Water: Amendment Techniques -- 34: Erosion by Water: Assessment and Control -- 35: Erosion by Water: Empirical Methods -- 36: Erosion by Water: Process-Based Modeling -- 37: Erosion by Wind: Source, Measurement, Prediction, and Control -- 38: Erosion Control: Tillage and Residue Methods -- 39: Pest Management: Modeling -- 40: Soil Quality: Indicators -- Section V: ELE: Focuses on the Use of Legislation or Policy to Address Environmental Problems -- 41: Acid Sulfate Soils: Management -- 42: Agricultural Water Quantity Management -- 43: Erosion by Water: Vegetative Control -- 44: Erosion Control: Soil Conservation -- 45: Farming: Organic Pest Management -- 46: Integrated Nutrient Management -- 47: Integrated Pest Management -- 48: Integrated Weed Management -- 49: Manure Management: Compost and Biosolids -- 50: Manure Management: Dairy -- 51: Manure Management: Phosphorus -- 52: Manure Management: Poultry -- 53: Organic Matter: Management -- 54: Pest Management -- 55: Pest Management: Ecological Agriculture -- 56: Pest Management: Ecological Aspects -- 57: Pest Management: Legal Aspects -- Section VI: ENT: Environmental Management Using Environmental Technologies -- 58: Acid Sulfate Soils: Formation. 59: Erosion and Sediment Control: Vegetative Techniques -- 60: Precision Agriculture: Engineering Aspects -- 61: Sodic Soils: Reclamation -- 62: Tillage Erosion: Terrace Formation -- Section VII: NEC: Natural Elements and Chemicals Found in Nature -- 63: Erosion by Wind-Driven Rain -- 64: Organic Matter: Global Distribution in World Ecosystems -- 65: Permafrost -- 66: Salt-Affected Soils: Plant Response -- Section VIII: PRO: Basic Environmental Processes -- 67: Agricultural Runoff -- 68: Desertification -- 69: Desertification: Prevention and Restoration -- 70: Erosion -- 71: Erosion by Water: Erosivity and Erodibility -- Index -- Volume4 -- Cover -- Half Title -- Series Page -- Title Page -- Copyright Page -- Table of Contents -- Preface -- Editors -- Contributors -- Section I: APC: Anthropogenic Chemicals and Activities -- 1: Aquatic Communities: Pesticide Impacts -- 2: Coastal Water: Pollution -- 3: Groundwater: Mining Pollution -- 4: Groundwater: Nitrogen Fertilizer Contamination -- 5: Groundwater: Pesticide Contamination -- 6: Lakes and Reservoirs: Pollution -- 7: Mines: Acidic Drainage Water -- 8: Rivers and Lakes: Acidification -- 9: Rivers: Pollution -- 10: Sea: Pollution -- Section II: COV: Comparative Overviews of Important Topics for Environmental Management -- 11: Rain Water: Harvesting -- 12: Water Harvesting -- 13: Groundwater: Saltwater Intrusion -- 14: Irrigation Systems: Water Conservation -- 15: Irrigation: Erosion -- 16: Irrigation: River Flow Impact -- 17: Irrigation: Saline Water -- 18: Irrigation: Sewage Effluent Use -- 19: Irrigation: Soil Salinity -- 20: Managing Water Resources and Hydrological Systems -- 21: Runoff Water -- 22: Salt Marsh Resilience and Vulnerability to Sea-Level Rise and Other Environmental Impacts -- 23: The Evolution of

Water Resources Management -- 24: Wastewater and Water Utilities.
25: Wastewater: Municipal.

Sommario/riassunto

The handbook is an excellent resource for finding basic knowledge on environmental systems. The experience, evidence, methods, and models used are presented in six stand-alone volumes, arranged along the major environmental systems. The chapters are contributed by leading experts from around the globe.
