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Titolo	The Role of Bioactive Lipids in Cancer, Inflammation and Related Diseases / / edited by Kenneth V. Honn, Darryl C. Zeldin
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Collana	Advances in Experimental Medicine and Biology, , 2214-8019 ; ; 1161
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Soggetti	Medical genetics Lipids Human physiology Cytology Cancer Medicine - Research Biology - Research Medical Genetics Lipidology Human Physiology Cell Biology Cancer Biology Biomedical Research
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Prelims -- Introduction -- Understanding the role of pro-resolving lipid mediators in infectious keratitis -- Immunoresolvent resolvin D1 maintains the health of the ocular surface -- The evolving role of specialized pro-resolving mediators in modulating neuroinflammation in perioperative neurocognitive disorders -- Relationship between specialized pro-resolving mediators and inflammatory markers in chronic cardiac disorders -- Specialized pro-resolving mediators

directs cardiac healing and repair with activation of inflammation and resolution program in heart failure -- Novel n-3 docosapentaneoic acid-derived pro-resolving mediators are vasculoprotective and mediate the actions of statins in controlling inflammation -- Aspects of prostaglandin glycerol ester biology -- Targeting the COX/mPGES-1/PGE2 pathway in neuroblastoma -- Metabolomics biomarkers for precision psychiatry -- Cytochrome P450 eicosanoid signaling pathway in colorectal tumorigenesis -- Contributions of 12/15-Lipoxygenase to bleeding in the brain following ischemic stroke -- Systematic understanding of bioactive lipids in neuro-immune interactions: Lessons from an animal model of multiple sclerosis -- Role of bioactive sphingolipids in inflammation and eye diseases -- Roles of ceramides and other sphingolipids in immune cell function and inflammation -- Acute and chronic mild traumatic brain injury differentially changes levels of bioactive lipids in the CNS associated with headache -- Novel anti-inflammatory and vasodilatory -3 endocannabinoid epoxide regioisomers -- Overview of lipid biomarkers in Amyotrophic Lateral Sclerosis (ALS) -- Flavonoids ability to disrupt inflammation mediated by lipid and cholesterol oxidation -- Index.

Sommario/riassunto

This book examines the role of bioactive lipids as pro- and anti-inflammatory mediators in the diagnosis of and as novel therapies for cardiovascular disease, cancer, ocular and neurologic diseases, and inflammatory conditions. The major pathways of arachidonic acid and omega-3 fatty acid metabolism are represented, including cyclooxygenases, lipoxygenases, cytochrome P450 monooxygenases, specialized pro-resolving mediators, endocannabinoids, and ceramide and other sphingolipids. This book would be of great interest to basic and translational researchers, as well as physician-scientists working on selected topics (e.g., cancer, cardiovascular disease, stroke, diabetes, inflammation, etc.) in which the underlying role of lipid mediators in the pathophysiology is known or suspected. This compilation of peer-reviewed manuscripts represents reviews of timely topics presented at the 15th International Conference on Bioactive Lipids in Cancer, Inflammation and Related Diseases. Authors selected are outstanding junior investigators representative of future leaders in the field of bioactive lipids.