DESCRIPTION

The current state of the science supporting new research in lysophospholipids

The study of lysophospholipids exploded with the discovery of cell surface receptors on both lysophosphatidic acid (LPA) and sphingosine 1-phosphate (S1P). Since then, thousands of original research reports ranging from fundamental cell signaling to the physiology and pathophysiology of individual organ systems have centered on lysophospholipids. This book draws together and analyzes the current literature to provide readers with a state-of-the-science review as well as current techniques that support research in all aspects of the field of lysophospholipid signaling.

*Lysophospholipid Receptors* is divided into three sections:

- Receptors and other possible effectors
- Enzymes
- Physiology and pathophysiology

Within each section, the authors explain the similarities and differences between LPA and S1P signaling. Examples are provided that demonstrate the underlying mechanisms of lysophospholipid signaling across a broad range of organ systems, such as S1P signaling in cardiovascular physiology and disease and the neural effects of LPA signaling. Extensive references at the end of each chapter provide a gateway to the literature and facilitate further research into individual topics.
Each chapter has been authored by one or more leading international authorities in lysophospholipid research. Based on a thorough analysis of the current research, the authors set forth what is established science and offer their expert opinion and perspective on new and emerging areas of research, setting the stage for further investigations that will solve current problems in the field.

ABOUT THE AUTHOR

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