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5.5. Other Cellular Processes that Possibly Involve PAF-AH I<sub>b</sub>6. Remaining Questions and Future Prospects; Acknowledgments; References; Chapter Three: Platelet-Activating Factor Acetylhydrolase and Brain Development; 1. Introduction; 2. Genetics of Human Lissencephaly and Recognition of the LIS1-Encoded Protein as PAFAH1B1; 3. Role of Pafah1b and Platelet-Activating Factor in Brain Development; 4. Coordination of Brain Platelet-Activating Factor Acetylhydrolase Signaling and Reelin Signaling in Mouse Brain 5. Roles of "Brain" Platelet-Activating Factor Acetylhydrolase in Testicular Development and Spermatogenesis6. Conclusions; References; Chapter Four: Intracellular Platelet-Activating Factor Acetylhydrolase, Type II: A Unique Cellular Phospholipase A<sub>2</sub> That ...; 1. Introduction; 2. Structure of PAF-AH (II); 3. Substrate Specificity of PAF-AH (II); 4. Biological Roles of PAF-AH (II); 5. Regulation of PAF-AH (II); 6. Future Prospects; Acknowledgments; References; Chapter Five: Trafficking and Oligomeric Regulation of Platelet-Activating Factor Acetylhydrolase Type II; 1. Introduction 1.1. PAFAH Family1.2. Oxidative Stress; 1.3. PAFAH-II as a Transacetylase; 1.4. Homology Model of PAFAH-II; 2. Trafficking of PAFAH-II; 2.1. Previous Research; 2.2. Recent Discovery; 3. Oligomeric Regulation of PAFAH-II; 4. Conclusions and Future Work; Acknowledgment; References; Chapter Six: Plasma PAF-AH (PLA<sub>2</sub>G7): Biochemical Properties, Association with LDLs and HDLs, and Regulation of Expression; 1. Introduction and Perspectives; 2. Biochemical Properties of Plasma PAF-AH; 2.1. Generalities; 2.2. Substrate Specificity; 2.3. Susceptibility to Oxidation; 3. Association with Lipoproteins 3.1. PAF-AH and Lipoproteins

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