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gain a thorough understanding of the principles of biochemistry and molecular biology as they relate to modern medicine includes 16 case histories clear concise and in full color harper s illustrated biochemistry is unrivaled in its ability to clarify the link between biochemistry and the molecular basis of disease combining outstanding full color illustrations with integrated coverage of biochemical diseases and clinical information harper s offers an organization and careful balance of detail and brevity not found in any other text on the subject following two introductory chapters the text is divided into six main sections section i addresses the structures and functions of proteins and enzymes section ii explains how various cellular reactions utilize or release energy and traces the pathways by which carbohydrates and lipids are synthesized and degraded section iii covers the amino acids their metabolic fates certain features of protein catabolism and

the biochemistry of the porphyrins and bile pigments section iv describes the structure and function of nucleotides and nucleic acids dna replication and repair rna synthesis and modification protein synthesis the principles of recombinant dna technology and new understanding of how gene expression is regulated section v deals with aspects of extracellular and intracellular communication section vi includes fifteen special topics ranging from nutrition digestion and absorption to the biochemistry of aging new to this edition new chapters on aging cancer and clinical chemistry every chapter has been updated to reflect the latest advances in knowledge and technology each chapter now begins with a statement of objectives followed by a brief discussion of the biomedical importance of topics discussed within the chapter 250 multiple choice questions to test your knowledge and comprehension increased number of tables that encapsulate important information such as vitamin and mineral requirements

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eicosanoids generated from the metabolism of arachidonic acid by cytochrome p450 cyp metabolism are mediators of diverse biological functions including the regulation of vascular tone cellular proliferation and inflammation the major products of cyp catalyzed arachidonic acid metabolism are 20 hydroxyeicosatetraenoic acid and the regio and stereospecific epoxyeicosatrienoic acids which can be further metabolized by soluble epoxide hydrolase seh into their corresponding dihydroxyeicosatrienoic acids regulation of cyp eicosanoid levels is determined by numerous factors including the expression and function of the cyp enzymes responsible for their formation induction and repression of

cyp and seh can be mediated by the nuclear receptor peroxisome proliferator activated receptor alpha pparalpha ligands for pparalpha include fatty acids eicosanoids and fibrate drugs given that eicosanoids are pparalpha agonists and that pparalpha can regulate cyp eicosanoid levels the overall hypothesis tested in this dissertation is that components of the cyp catalyzed pathway of arachidonic acid metabolism affect and or mediate biological effects via pparalpha associated transcriptional signaling cyp eicosanoids and a class of urea based inhibitors of seh are identified as novel pparalpha ligands that alter the transcription of pparalpha responsive genes the latter group of compounds consists of urea based alkanolic acids which potently attenuate smooth muscle cell proliferation an action that requires pparalpha expression in smooth muscle cells cyp eicosanoids also induced the expression of cyclooxygenase 2 cox 2 via increased nf kappa b signaling and in a pparalpha dependent manner upregulation of cox 2 resulted in the surprising attenuation of inflammatory prostaglandin release showing that cross talk between the cyclooxygenase and cyp catalyzed pathways of arachidonic acid metabolism may have anti inflammatory effects in vivo cyp and seh expression especially in small diameter vessels and the heart are altered after treatment with a pparalpha agonist demonstrating that these enzymes are responsive to pparalpha activation physiologically in summary these results suggest that cyp eicosanoids and urea based inhibitors of seh favorably affect vascular function and mediate their effects through pparalpha further investigations into the actions of these molecules may be helpful in the design of pharmacological modulators for the treatment of inflammation and vasculoproliferative diseases

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