Clinical Detective Stories
A Problem-Based Approach to Clinical Cases in Energy and Acid-Base Metabolism

M L Halperin and F S Rolleston

This book is written for students who want to apply fundamental concepts of energy and acid-base metabolism to clinical problems. It uses more than 50 clinical cases, with data obtained in the hospital setting, to introduce each set of concepts, and to provide the basis for discussion of the needed biochemistry and physiology. Questions and commentary drawn from human and veterinary medicine provide a broad scope for understanding the concepts presented; details of metabolism are presented only when they are necessary to an understanding of clinical medicine.

Contents: Energy and Acid-Base Physiology: Energy metabolism: fuels, organs, pathways and controls; Acid-base metabolism: production and excretion of wastes. Clinical Applications: Energy metabolism in exercise; Diabetes mellitus; Hypoglycemia; Metabolic acidosis. Metabolic Function and Control: Introduction to metabolic pathways and control mechanisms; The carbohydrate system; The pyruvate dehydrogenase system; The ATP generation system; The fat system; The protein system. Discussion of Questions. Structure and Pathways

"I am very impressed and enthusiastic about Clinical Detective Stories. I, and my students, have always learned better from books that are based on concepts and case examples. This is a great book!"

John W Hallett, Jr, Director of Education, Mayo Clinic

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March 1993

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R J Beynon

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Edited by Lynn Bindman, Alison Bradin and Tilli Tansey

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The book considers the barriers some women faced in the workplace, including lack of funding and availability of research posts. It concludes with a brief look at the situation for contemporary female scientists, and poses the question 'Is it much better than for their predecessors?'

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Edited by P L R Andrews and J G Widdicombe

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Proteolysis participates in an impressive array of biological processes that includes blood clotting, tissue remodelling, nutrient aquisition, antigen processing and the meiotic cycle. The technologies of molecular and cell biology have had a tremendous influence on this field in recent years. In this book, leading experts portray a sense of how the field is moving, highlight the important discoveries and trends, and pinpoint the areas where progress is still to be made.

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Edited by S Moncada, G Nisticò and E A Higgs

Nitric Oxide was nominated molecule of the year by Science in 1992. New and unexpected roles for biologically synthesized nitric oxide continue to be identified. This book contains the proceedings of the First International Meeting on Nitric Oxide: Brain and Immune System, held in Calabria, Italy in September 1992. The meeting brought together specialists from various subjects in an attempt to pull together this still diverse research into a unifying field dealing with the understanding of the communication and reciprocal interaction between the brain and the immune system.

Interest in nitric oxide biochemistry and physiology covers many scientific speciality areas. Everybody involved in research in nitric oxide plus researchers in immunology as well as the cardiovascular system and the CNS will be interested in this book.

Contents: Twenty-nine chapters in three sections: Interactions Between CNS and Immune System; Nitric Oxide: Basic Mechanisms and Role in the Nervous System, and Nitric Oxide: Role in Immune Mechanisms and Inflammation.

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Neurochemistry of Drug Dependence: From Molecular Targets to Behavioural Consequences

Edited by S Wonacott and G G Lunt

The proceedings of this meeting brings together neurochemical information about drug targets and their mechanisms on the one hand, with psychopharmacological and behavioural studies of drug dependence on the other. Presented in a jargon-free style, it aims to stimulate cross-fertilisation of ideas that will span the disciplines and enhance our understanding of this important topic.

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