Announcing
a work in progress
Gastrin
in the New Millennium

Edited by Juanita L. Merchant,
Alison M.J. Buchan, and
Timothy C. Wang

Managing Editor, Lori Ennis

The Foreword to the book has been prepared by Tadatsaka Yamada.

This commemorative and comprehensive book includes the latest concepts regarding the physiology and molecular biology of gastrin and its downstream targets.

This book has been made possible due to the generous support of Eisai Inc./Janssen Pharmaceutica in the form of an educational grant.

This book will be available for purchase in mid-May, 2004.

See reverse side for details about contents
Contents for Gastrin in the New Millennium

The History of Gastrin, Graham Dockray

SECTION I. Gastrin Processing in Health and Disease

Progastrin Processing Defines the Molecular Forms of Gastrin, Jens Rehfeld
Control of Progastrin Processing: Mechanisms and Significance, Graham Dockray
Gastrin Processing Patterns: Ontogeny, Phylogeny and Pathology, Arthur Shulkes

SECTION II. Regulation of Gastrin Expression, Receptor Binding and Cell Signaling

Does the Brain Regulate Gastrin Release? Yvette Taché
Regulation of Human G Cell Function, Alison Buchan
Inducible Regulation of Gastrin Gene Expression, Juanita Merchant
Structure/Function of the CCK-B1 Gastrin Receptor, Mark R. Hellmich
Quantitative Evaluation of CCK-B/Gastrin Receptor Regulation Using an Arrestin/Green Fluorescent Protein Biosensor, Michael Shetzline
Molecular Mechanisms for the Growth Factor Action of Gastrin, Andrea Toidisco
IRS/PI Kinase Activation by Gastrin, Catherine Seva

SECTION III. Understanding Downstream Targets and Actions of Gastrin

Downstream Targets: Regulation by Gastrin, Rod Dimaline
Molecular Mechanisms of Gastrin-Dependent Chromogranin A Gene Regulation, Michael Höcker
Gastrin as a Physiological Regulator of Gastric Acid Secretion, Gordon Ohning and Vincent Wu

SECTION IV. Transgenic Models

Regulation of Acid Secretion: What We Learned from Knockout Mice, Susumu Okabe
CCK-B Receptor-Deficient Mice: Effects on Target Cells, Duan Chen
Gastrin Deficient Mice, Linda Samuelson
Gastrin Transgenes and Gastric Cancer, Tim Wang

SECTION V. Gastrin and Helicobacter Pylori

The Gastrin Link in H. pylori Infection, Ian Beales
Regulation of Gastrin Secretion by Helicobacter pylori, George Sachs
Proton Pump Inhibitors and H. pylori, Rudolf Arnold
Epidemiology of H. pylori and Adenocarcinoma, Kenneth McColl

SECTION VI. Gastrin and Cancer

Gastrins, Gastrin Receptors and Colon Cancer, Graham Baldwin
The Role of Gastrins in Colon Carcinogenesis, Pomila Singh
The Role of Gastrin in the Adenoma-Carcinoma Sequence in the Colon, Susan Watson
Gastrinomas: Recent Advances and Insights into Consequences of Chronic Hypergastrinemia in Man, Robert Jensen