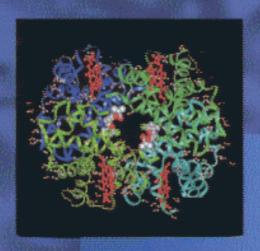
BURGER'S

Sixth Edition

Medicinal Chemistry Drug Discovery

Edited by

Donald J. Abraham



VOLUME 4
Autocoids, Diagnostics, and
Drugs from New Biology

CONTENTS

1 INSULIN AND HYPOGLYCEMIC AGENTS, 1

Mark Sleevi Insmed Incorporated Richmond, Virginia

2 PEPTIDE AND PROTEIN HORMONES, PEPTIDE NEUROTRANSMITTERS, AND THERAPEUTIC AGENTS, 45

Victor J. Hruby Catherine Gehrig de Chavez Malcolm Kavarana University of Arizona Department of Chemistry

Tucson, Arizona

3 INHIBITORS OF GASTRIC ACID SECRETION, 85

Sonia Roberts Iain M. McDonald James Black Foundation London, United Kingdom 4 CHEMOKINE AND CYTOKINE MODULATORS, 129

Maria Elena Fuentes Tara Mirzadegan Robert S. Wilhelm Roche Bioscience Palo Alto, California

5 COX-2 INHIBITORS AND LEUKOTRIENE MODULATORS, 203

Randy L. Bell Richard R. Harris Andrew O. Stewart Abbott Laboratories Abbott Park, Illinois

6 AGENTS ACTING ON PROSTANOID RECEPTORS, 265

David W. Jenkins
Patrick P.A. Humphrey
University of Cambridge
Glaxo Institute of Applied
Pharmacology
Cambridge, United Kingdom

Robert A. Coleman

Pharmagene Laboratories Ltd.

Royston, United Kingdom

7	RETINOIDS, 317 Mark Leid Oregon State University Laboratory of Molecular Pharmacology Department of Pharmaceutical Sciences College of Pharmacy Corvallis, Oregon	11	MICROARRAYS AND GENE EXPRESSION PROFILING APPLIED TO DRUG RESEARCH, 599 Brad Windle Department of Medicinal Chemistry Center for Bioelectronics, Biosensors and Biochips (C3B) Virginia Commonwealth University Richmond, Virginia
8	VITAMINS, 359 John H. Block Oregon State University College of Pharmacy Corvallis, Oregon	•	Anthony Guiseppi-Elie Department of Chemical Engineering Center for Bioelectronics, Biosensors and Biochips (C3B) Virginia Commonwealth University Richmond, Virginia
9	LIFESTYLE AND OVER-THE- COUNTER DRUGS, 421 Khawla Abu-Izza Sanofi-Synthelabo Research Malvern, Pennsylvania	12	SNPS: SINGLE NUCLEOTIDE POLYMORPHISMS AND PHARMACOGENOMICS— INDIVIDUALLY DESIGNED DRUG THERAPY, 617
	Vincent Li Wyeth Consumer Healthcare Richmond, Virginia Graham Parr Wyeth Consumer Healthcare		Brian J. Puckett MCV Campus Virginia Commonwealth University Richmond, Virginia Steven G. Terra
10	Hampshire, United Kingdom RADIOPAQUES, 483 C. T. Peng University of California Department of Pharmaceutical		JHM Health Science Center University of Florida Gainesville, Florida Joe Walker Orchid BioSciences Princeton, New Jersey
	Chemistry School of Pharmacy San Francisco, California and San Jose State University Nuclear Science Facility San Jose, California	13	PLASMID DNA-MEDIATED GENE THERAPY, 651 Rajkumar Banerjee Leaf Huang Center for Pharmacogenetics School of Pharmacy University of Pittsburgh Pittsburgh, Pennsylvania