

Contents

Introduction

Tsokos, G.C.

Signaling by the CD19/CD21 Complex on B Cells

Carter, R.H.; Barrington, R.A.

Complement Receptor 2 and Autoimmunity

Holers, V.M.; Boackle, S.A.

Apoptosis, Complement and Systemic Lupus Erythematosus: A Mechanistic View

Liu, C.-C.; Navratil, J.S.; Sabatine, J.M.; Ahearn, J.M.

Role of C1q and C1q Receptors in the Pathogenesis of Systemic Lupus Erythematosus

Ghebrehiwet, B.; Peerschke, E.I.B.

The Intricate Role of Complement Component C4 in Human Systemic Lupus Erythematosus

Yang, Y.; Chung, E.K.; Zhou, B.; Lhotta, K.; Hebert, L.A.; Birmingham, D.J.; Rovin, B.H.; Yu, C.Y.

The Role of Complement in the Antiphospholipid Syndrome

Salmon, J.E.; Girardi, G.

Autoimmunity, Complement Activation, Tissue Injury and Reciprocal Effects

Tsokos, G.C.; Fleming, S.D.

Complement and Autoimmune Glomerular Diseases

Quigg, R.J.

Membrane Complement Regulatory Proteins in Autoimmune and Inflammatory Tissue Injury

Song, W.-C.

Author Index Subject Index

Fields of interest: *Immunology, Rheumatology, Nephrology, Cell Biology, Biochemistry, Genetics, Infectious Diseases, Hematology*

Current Directions
in Autoimmunity, Vol. 7

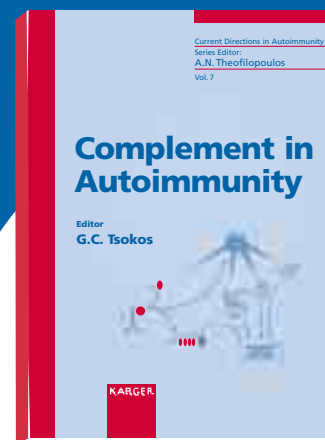
Complement in Autoimmunity
Editor: Tsokos, G.C. (Silver Spring, Md.)
VI+206 p., 21 fig., 2 in color, 10 tab.,
hard cover, 2004
CHF 198.- / EUR 141.50 / USD 172.25
ISBN 3-8055-7646-3

Prices subject to change
EUR price for Germany,
USD price for USA only

*A vital approach to a key component of
the innate immune system*

Complement in Autoimmunity

Editor: **George C. Tsokos**



Complement protein expression and activation control central aspects of the normal B cell response. Imbalances in these processes invariably lead to autoimmune disease. Complement activation causes tissue damage in a number of ways and may by itself lead to autoimmune disease. Although the use of complement activation inhibitors in the treatment of complement-mediated tissue injury and disease is largely in pre-clinical trials, the expectations that they will be of significant clinical value are high.

This volume contains a series of review articles that address the role of complement in the pathogenesis of autoimmune disease and the ensuing tissue damage. Topics include structural and functional aspects of the CD19/CD21/CD81 complex, role of the

complement system in the expression of systemic lupus erythematosus (SLE) and antiphospholipid antibody syndrome. Also featured is the role of complement activation in ischemia/reperfusion and autoimmune disease injury. Finally, in-depth reviews about complement activation in the development of glomerulonephritis in autoimmune disease and the function of membrane-bound complement regulatory proteins in autoimmunity are presented.

Students as well as basic and clinical researchers in immunology who wish to understand the role of complement in the pathogenesis of autoimmune disease will value this comprehensive and up-to-date publication.

www.karger.com/cudia

KARGER

Current Directions in Autoimmunity

Series Editor:

A.N. Theofilopoulos (Scripps Research Institute, La Jolla, Calif.)

ISSN 1422-2132

Research in autoimmunity is advancing rapidly, but is widely dispersed and difficult to assimilate. This series is designed to synthesize and consolidate current directions in this field with primary emphasis on relevant genes and genetics. Recognized experts will act as guest editors for each volume, offering concise perspectives of evolving topics.

For more information, please log on to www.karger.com/cudia

Vol. 6

B Cell Biology in Autoimmunity

Editor: Nemazee, D. (La Jolla, Calif.)
VIII + 272 p., 43 fig., 4 in color, 14 tab.,
hard cover, 2002
CHF 198.- / EUR 141.50 / USD 172.25
ISBN 3-8055-7454-1

Vol. 5

Signal Transduction Pathways in Autoimmunity

Editor: Altman, A. (San Diego, Calif.)
VIII + 198 p., 13 fig., 5 in color, 3 tab.,
hard cover, 2002
CHF 228.- / EUR 163.- / USD 198.25
ISBN 3-8055-7308-1

Vol. 4

Molecular Pathology of Type 1 Diabetes mellitus

Editor: von Herrath, M.G. (La Jolla, Calif.)
X + 360 p., 24 fig., 10 tab., hard cover, 2001
CHF 288.- / EUR 205.50 / USD 250.50
ISBN 3-8055-7240-9

Vol. 3

Rheumatoid Arthritis

Editors: Goronzy, J.J.; Weyand, C.M. (Rochester, Minn.)
VIII + 282p., 46 fig., 1 color, 14 tab.,
hard cover, 2001
CHF 196.- / EUR 140.- / USD 170.50
ISBN 3-8055-7120-8

Vol. 2

Biologic and Gene Therapy of Autoimmune Disease

Editor: Fathman, C.G. (Stanford, Calif.)
VI + 224 p., 18 fig., 1 in color, 11 tab.,
hard cover, 2000
CHF 196.- / EUR 140.- / USD 170.50
ISBN 3-8055-6949-1

Vol. 1

Genes and Genetics of Autoimmunity

Editor: Theofilopoulos, A.N. (La Jolla, Calif.)
VIII + 296 p., 16 fig., 27 tab., hard cover, 1999
CHF 196.- / EUR 140.- / USD 170.50
ISBN 3-8055-6814-2

Prices subject to change
EUR price for Germany,
USD price for USA only

KARGER

Order Form

Current Directions in Autoimmunity

Please send:

___ copy/ies: **Vol. 7: Complement in Autoimmunity**
CHF 198.- / EUR 141.50 / USD 172.25
ISBN 3-8055-7646-3

___ copy/ies: ISBN 3-8055-_____

the book series **Current Directions in Autoimmunity** on continuation beginning with vol. ___

All Karger series are available on continuation. Each volume will be sent upon publication until order is countermanded.

For easy ordering or information about other Karger publications log on to: www.karger.com

Postage and handling free with prepayment

Payment:

Check enclosed Please bill me

Please charge this order to my credit card

American Express Diners
 Visa MasterCard
 Eurocard

Card No.: _____

Exp. date: _____

Name/Address (please print): _____

Date: _____

Signature: _____

Orders can be placed at agencies, bookstores, directly with the publisher, or with any Karger distributor.

S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland)

Fax +41 61 306 12 34, E-Mail orders@karger.ch

USA: S. Karger Publishers, Inc., 26 West Avon Road,
P.O. Box 529, Farmington, CT 06085,
Toll free: 1-800-828-5479

Germany: S. Karger GmbH, Lörracher Str. 16A,
D-79115 Freiburg

France: Librairie Lugubühl, 36, bd de Latour-Maubourg,
F-75007 Paris

United Kingdom, Ireland: S. Karger AG, 4 Rickett Street,
London SW6 1RU (UK)

Baltic States: Klanberg Ltd., Jääraku 67,
EE-12015 Tallinn (Estonia)

Gulf Council Countries, Iran, Middle East,

North Africa, Turkey: Trans Middle East Internat.
Distribution Co. Ltd., KaSha, P.O. Box 2376 Telaa' Al-Ali,
Amman 11953 (Jordan)

ASEAN countries, Hong Kong, Taiwan, South Korea:
APAC Publishers Services Pte. Ltd., 31, Tannery Lane,
#07-01 Dragon Land Building, Singapore 347788

India, Bangladesh, Sri Lanka: Panther Publishers Private
Ltd., 33, First Main, Koramangala First Block,
Bangalore 560 034 (India)

Japan: Karger Japan, Inc., Yushima S Bldg. 3F,
4-2-3 Yushima, Bunkyo-ku, Tokyo 113-0034

Australia: DA Information Services, 648 Whitehorse Road,
P.O. Box 163, Mitcham, Vic. 3132