Animal Models of Inflammatory Bowel Disease

Contribution to the 1st International Conference on Inflammatory Bowel Disease Animal Models
Berlin, December 2001

Guest Editor
Martin Zeitz, Berlin

23 figures and 5 tables, 2003
Drug Dosage

The authors and the publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accord with current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new and/or infrequently employed drug.

All rights reserved.

No part of this publication may be translated into other languages, reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, microcopying, or by any information storage and retrieval system, without permission in writing from the publisher or, in the case of photocopying, direct payment of a specified fee to the Copyright Clearance Center (see 'General Information').

© Copyright 2003 by S. Karger AG, P.O. Box, CH–4009 Basel (Switzerland)
Printed in Switzerland on acid-free paper by Reinhardt Druck, Basel
ISBN 3-8055-7522-X
Contents

119 Introduction
Hoffmann, J.C.; Zeitz, M. (Berlin)

121 Animal Models of Inflammatory Bowel Disease: An Overview
Hoffmann, J.C.; Pawlowski, N.N.; Kühl, A.A.; Höhne, W.; Zeitz, M. (Berlin)

131 The Flora and Intestinal Barrier in IBD Animal Models
Rath, H.C. (Regensburg)

139 The Interleukin-2-Deficient Mouse Model
Barmeyer, C.; Horak, I.; Zeitz, M.; Fromm, M.; Schulzke, J.D. (Berlin)

143 Neutrophil Migration across the Intestinal Epithelial Barrier – Summary of in vitro Data and Description of a New Transgenic Mouse Model with Doxycycline-Inducible Interleukin-8 Expression in Intestinal Epithelial Cells
Kucharzik, T. (Münster); Williams, I.R. (Atlanta, Ga.)

150 Role of Gamma Delta T Cells in Inflammatory Bowel Disease
Kühl, A.A.; Loddenkemper, C. (Berlin); Westermann, J. (Lübeck); Hoffmann, J.C. (Berlin)

156 Immunopathogenesis in IBD Animal Models

156 Early Events in the Pathogenesis of a Murine Transfer Colitis
Leithäuser, F.; Krajina, T.; Trobonjaca, Z.; Reimann, J. (Ulm)

164 Anti-Interleukin-18 Therapy in Murine Models of Inflammatory Bowel Disease
Lochner, M.; Förster, I. (Munich)

170 A New Model of Chronic Colitis in SCID Mice Induced by Adoptive Transfer of CD62L+ CD4+ T Cells: Insights into the Regulatory Role of Interleukin-6 on Apoptosis
Mudter, J.; Wirtz, S.; Galle, P.R.; Neurath, M.F. (Mainz)

177 Interleukin-12 Antagonists as New Therapeutic Agents in Inflammatory Bowel Disease
Schmidt, C.; Marth, T. (Homburg/Saar); Wittig, B.M. (Berlin); Hombach, A.; Abken, H. (Köln); Stallmach, A. (Homburg/Saar)

184 Functional Involvement of CD44 Variant 7 in Gut Immune Response
Wittig, B.M. (Berlin); Stallmach, A. (Homburg/Saar); Zeitz, M. (Berlin); Günthert, U. (Basel)

190 Author Index
190 Subject Index