Gastric and Gut Microbiota in Health and Disease

Editors
P. Malfertheiner, Magdeburg
A. Gasbarrini, Rome
F. Mégraud, Bordeaux

12 figures, 2 in color, and 10 tables, 2016
Disclaimer
The statements, opinions and data contained in this publication are solely those of the individual authors and contributors and not of the publisher and the editor(s). The appearance of advertisements in the journal is not a warranty, endorsement, or approval of the products or services advertised or of their effectiveness, quality or safety. The publisher and the editor(s) disclaim responsibility for any injury to persons or property resulting from any ideas, methods, instructions or products referred to in the content or advertisements.

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 2016 by S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland) Printed on acid-free and non-ageing paper (ISO 9706) ISBN 978-3-318-05835-2 e-ISBN 978-3-318-05836-9
Vol. 34, No. 3, 2016

Contents

189 Preface
Malferttheiner, P. (Magdeburg); Gasbarrini, A. (Rome); Mégraud, F. (Bordeaux)

Review Articles

190 Coevolution between the Human Microbiota and the Epithelial Immune System
Sigal, M.; Meyer, T.F. (Berlin)

194 Gastrointestinal Microbiota and Their Contribution to Healthy Aging
Mello, A.M. (Genova); Paroni, G. (San Giovanni Rotondo); Daragjati, J. (Padova); Pilotto, A. (Genova)

202 Gut Microbiota: A Key Modulator of Intestinal Healing in Inflammatory Bowel Disease

210 Helicobacter pylori and Other Gastric Microbiota in Gastroduodenal Pathologies
Schulz, C.; Schütte, K.; Malferttheiner, P. (Magdeburg)

217 Clostridium difficile Infection: A Model for Disruption of the Gut Microbiota Equilibrium
Blanchi, J.; Goret, J.; Mégraud, F. (Bordeaux)

221 The Gut Bacteria-Driven Obesity Development
Compare, D.; Rocco, A.; Sanduzzi Zamparelli, M.; Nardone, G. (Naples)

230 The Gastrointestinal Tract Microbiota and Allergic Diseases
Kyburz, A.; Müller, A. (Zurich)

244 Gastrointestinal Microbiota and Colon Cancer
Hold, G.L. (Aberdeen)

251 Probiotic Bacterial and Fungal Strains: Claims with Evidence
Szajewska, H.; Konarska, Z.; Kołodziej, M. (Warsaw)

260 Effects of Antibiotics on Gut Microbiota
Lange, K.; Buerger, M.; Stallmach, A.; Bruns, T. (Jena)

269 The Role of Antibiotics in Gut Microbiota Modulation: The Eubiotic Effects of Rifaximin
Ponziani, F.R.; Scaldaferri, F.; Petito, V.; Paroni Sterbini, F.; Pecere, S.; Lopetuso, L.R.; Palladini, A.; Gerardi, V.; Masucci, L.; Pompili, M.; Cammarota, G.; Sanguinetti, M.; Gasbarrini, A. (Rome)
279 Principles of DNA-Based Gut Microbiota Assessment and Therapeutic Efficacy of Fecal Microbiota Transplantation in Gastrointestinal Diseases
Cammarota, G.; Pecere, S.; Ianiro, G.; Masucci, L.; Currò, D. (Rome)

286 Author Index
287 Subject Index