Molecular Medicine in Gastrointestinal Oncology

EAGE Postgraduate Course
Budapest, May 26–28, 2011

Editors
P. Malfertheiner, Magdeburg
Z. Tulassay, Budapest
Nanomedicine – Basic and Clinical Applications in Diagnostics and Therapy

Editor Christoph Alexiou

Contents

Preface: Pahernik, S.
Introduction: Alexiou, C.
Speakers at the Symposium
Nanoscale Drug Delivery/Drug Design
Nanocarriers for the Delivery of Drugs, Genes, and Diagnostics: Torchilin, V.P.
Synthesis of Magnetic Nanoparticles and Magnetic Fluids for Biomedical Applications: Vékás, L.; Tomács, E.; Túcs, R.; Morjan, I.; Avdeev, M.V.; Krásiová-Christoforou, T.; Socóiuc, V.
Nanotechnology-Based Spatiotemporal Controlled Drug Delivery Strategies: Biswas, S.; Kumar, C.S.S.R.

Nanotoxicity
Preclinical Efficacy and Toxicity Testing of Engineered Nanomaterials: Grossman, J.H.; McNeil, S.E.

Diagnostics and Imaging

Nanoparticles in Clinical Trials: Hedgire, S.; McDermott, S.; Harisinghani, M.
Medical Applications of Plasmonic Nanoparticles: Alvarez-Puebla, R.A.; Liz-Marzán, L.M.
Pancreatic Cancer Stem Cells as New Targets for Diagnostics and Therapy: Clauselli-Tormos, J.; Heeschen, C.

Therapeutic Applications
Nanomedicine Approaches for Cancer Stem Cell Targeting and Personalized Cancer Treatment: Block, I.; Schmidt, S.; Lund Hansen, P.; Riedel, A.; Christiansen, H.; Mollenhauer, J.
Targeted Iron Oxide Nanocomplex as a Theranostic Agent for Cancer: Chang, E.H.
Local Cancer Therapy with Magnetic Nanoparticles: Tietze, R.; Lyer, S.; Schreiber, E.; Mann, J.; Dürr, S.; Alexiou, C.
Parameters Influencing the Efficacy of Magnetic Heating of Small Breast Tumors: Hilger, I.; Kaiser, W.A.

Antibody Therapies
Galecins, Glycans, and Mucins as Targets for Novel and Specific Antibody Therapies in Gynecological Cancer Therapies: Jeschke, U.; Wiest, I.R.M.; Schindlbeck, C.; Dian, D.; Fries, K.
The Commercial Development of Antibodies as Drugs: Eaton, M.A.M.; Aida, J.R.

Author Index / Subject Index
Contents

See the journal website for contents
20th United European Gastroenterology Week

UEGW

AMSTERDAM 2012

October 20 – 24, 2012

Amsterdam / The Netherlands

Venue: Amsterdam RAI

EACCME applied

www.uegf.org
The highest rates of gastric cancer are observed in eastern Asia, South America and eastern Europe. More than half of all cases worldwide occur in eastern Asia. Distinguished experts in Asia have reviewed current topics and future perspectives for gastric cancer treatment in molecular pathology, tissue engineering, surgery and chemotherapy. Advances in diagnosis and treatment offer excellent long-term survival rates in the case of early cancer diagnosis, but the prognosis of advanced cancer still remains poor. A detailed understanding of molecular pathogenesis and the individual characteristics of gastric cancer and the development of new medical technologies and therapeutic agents help to provide personalized cancer care for patients of early and advanced cancer. For ongoing success, interactions and developments between bench and bedside as well as clinics and bench are crucial.

This special issue is recommended for researchers, pathologists, surgeons, physicians and oncologists in the field of gastroenterology, who are interested in the current topics and future perspectives of molecular pathology, tissue engineering, surgery and chemotherapy of gastric cancer.
Each issue of this journal is dedicated to a special topic of current interest, covering both clinical and basic science topics in gastrointestinal function and disorders. The contents of each issue are comprehensive and reflect the state of the art, featuring editorials, reviews, mini reviews and original papers. These individual contributions encompass a variety of disciplines including all fields of gastroenterology. Digestive Diseases bridges the communication gap between advances made in the academic setting and their application in patient care. The journal is a valuable service for clinicians, specialists and physicians-in-training.
Molecular Medicine in Gastrointestinal Oncology

Editors
P. Malfertheiner, Magdeburg
Z. Tulassay, Budapest