Future Perspectives of Gastric Cancer Treatment – From Bench to Bedside

Editors
Wataru Yasui
Hang-Kwang Yang
Kazuhiro Yoshida

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.

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Guidelines for Authors

Aims and Scope
Pathobiology offers a valuable forum for high quality original research into the pathophysiological and pathogenetic mechanisms underlying human disease. Aiming to serve as a bridge between basic biomedical research and clinical medicine, the journal welcomes articles from scientific areas such as pathology, oncology, anatomy, virology, internal medicine, surgery, cell and molecular biology, and immunology. Published bimonthly, the journal features original research papers, reviews, short communications and editorials. Papers highlighting the clinical relevance of pathological data are encouraged. A special section will be devoted to reports on methodological improvements, and in the ‘International Forum’ section current or controversial issues will be discussed by specialists in the field.

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Diagnostic Cytology Seminar with moderator Dr. Paul Wakely and panelists Dr. Gladwyn Leiman, Dr. Patricia Wasserman, Dr. Amy Clayton, and Ms. Melissa Randolph.
New Frontiers Lecture with astronaut, Dr. Scott Parazynski, to present “Ultra High Altitude Medicine,” detailing his experience in space as well as his climb on Mt. Everest.
Guest Lecture with veterinary pathologist, Leslie Sharkey, DVM, PhD, to present “Diagnostic Cytology in Veterinary Medicine: What Can Human and Veterinary Cytopathologists Learn from Each Other?”
Strategies in Cytology Education sessions moderated by Dr. Patricia Wasserman and Ms. Shirley Greening, have been designed for educators, clinical practitioners, researchers, lab directors, administrators, and supervisors.
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Changing Pathology with Changing Drugs

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This special issue is devoted to the changing role of pathology in the context of cancer and its treatment with new drugs such as inhibitors of tyrosine kinases, small molecules and antibodies, as well as combination therapies. The analysis of tissues under combined therapy will be a challenge as different changes will intermingle. A further challenge will be the analysis of follow-up biopsies of the same tumor or of secondary tumors following treatment. In future, pathologists are therefore likely to assume a much more active role in the management of cancer, moving from the position of an observer and describer to that of someone who can suggest modalities of personalized therapy based on the functional properties of the cancer cells under scrutiny. New approaches to treat leukemia, lymphoma, skin, breast, kidney and gastrointestinal cancer are discussed in this issue, which is recommended reading to anyone interested in the pathology of cancers under new treatment options.
Pathobiology offers a valuable platform for the publication of high-quality original research into the mechanisms underlying human disease. Aiming to serve as a bridge between basic biomedical research and clinical medicine, the journal welcomes articles from scientific areas such as pathology, oncology, anatomy, virology, internal medicine, surgery, cell and molecular biology, and immunology. Published bimonthly, Pathobiology features original research papers and reviews on translational research. The journal offers the possibility to publish proceedings of meetings dedicated to one particular topic.

Selected contributions


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