Breast translational research has markedly evolved over the past few decades and the emerging knowledge has revolutionized our understanding of breast neoplasms. Novel techniques and concepts in studying breast cancer have been developed. These have contributed to the understanding and recognition of this complex disease.

This special topic issue on Breast Translational Research provides pertinent and succinct reviews on tumor microenvironment, metabolomics, the role of the calpain family of enzymes, the molecular mechanisms of lymphovascular invasion, and predictors of response to neoadjuvant therapy. It proposes and illustrates a new terminology for the practising pathologist who needs to describe a diagnostically challenging group of breast neoplasms showing dermal analogue differentiation. It also evaluates the role of p40 immunohistochemistry in diagnostic breast pathology.

This publication is of special interest to pathologists as well as scientists and members of the breast multidisciplinary team, since it provides a useful overview of pertinent markers and techniques in the field of breast cancer translational research and diagnostic histopathology.

Contents

Editorial
• Breast Translational Research: Past, Present and Future: Shaaban, A.M.

Invited Review
• Molecular Mechanisms Underlying Lymphovascular Invasion in Invasive Breast Cancer: Aleskandarany, M.A.; Sonbul, S.N.; Mukherjee, A.; Rakha, E.A.

• Radiological and Pathological Predictors of Response to Neoadjuvant Chemotherapy in Breast Cancer: A Brief Literature Review: Parekh, T.; Dodwell, D.; Sharma, N.; Shaaban, A.

• Calpain in Breast Cancer: Role in Disease Progression and Treatment Response: Storr, S.J.; Thompson, N.; Pu, X.; Zhang, Y.; Martin, S.G.

• Role of the Tumor Microenvironment in Breast Cancer: Soysal, S.D.; Tzankov, A.; Muenst, S.E.

• Metabolomic Biomarkers for Breast Cancer: Guenther, U.L.

Original Paper
• Evaluation of p40 as a Myoepithelial Marker in Different Breast Lesions: Kóvári, B.; Szász, A.M.; Kulka, J.; Marušić, Z.; Šarić, B.; Tiszlavićz, L.; Cserni, G.

Novel Insights from Research Practice

Author Index/Subject Index

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A new approach to treating AYA with hematological malignancies

Adolescents and Young Adults with Hematological Disorders
Challenges and Perspectives

Editors
Martin S. Tallman
Pia Raanani

The distinct biology of haematological disorders as well as other age-related issues in adolescent and young adult (AYA) patients deserves unique psychological and medical attention. It emphasizes the necessity for a treatment approach taking into consideration their special needs. These include fertility considerations, survivalship issues, psychological support, adherence to treatment difficulties and other dilemmas and problems exclusive to this group of patients. AYA patients may usually better support intensive treatments and if possible should be referred to special centres and participate in clinical trials. In recent years the focus on AYA patients in oncology and hemato-oncology has increased. Still a distinct approach to these patients is an unmet need.

This special issue tries to increase awareness for this group of patients as well as to cover the wide spectrum of hematological disorders that is pertinent to AYA patients who face special therapeutic challenges. This publication is of interest for physicians dealing with AYA, especially in the field of hematology and oncology, as well as paramedical staff including nurses, psychologists, social workers and pharmacists.

Contents
• The Challenges and Perspectives in Treating Adolescent and Young Adult Patients with Hematological Disorders: Raanani, P.; Tallman, M.S.
• Acute Lymphoblastic Leukemia in Adolescents and Young Adults: Burke, P.; Dower, D.
• The Challenging Aspects of Managing Adolescents and Young Adults with Hodgkin’s Lymphoma. Jachimowicz, R.D.; Engert, A.
• Adolescents and Young Adults with Non-Hodgkin’s Lymphoma—Slipping between the Cracks: Wolach, O.; Ram, R.
• Acute Myeloid Leukemia in Adolescents and Young Adults: Challenging Aspects: Ofman, Y.; Rowe, J.M.
• Chronic Myeloid Leukemia in Adolescents and Young Adults: Patient Characteristics, Outcomes and Review of the Literature: Pemmaraju, N.; Cortes, J.
• Acute Promyelocytic Leukemia in Children and Adolescents: Stein, E.M.; Tallman, M.S.
• Hematopoietic Stem Cell Transplantation in Adolescents and Young Adults: Tewari, P.; Franklin, A.R.; Tarek, N.; Askins, M.A.; Molfield, S.; Kebrinae, P.
• Challenging Aspects of Managing Hemostasis in Adolescents: Nowak-Göttli, U.; Kenet, G.
• Aplastic Anemia in Adolescents and Young Adults: DeZern, A.E.; Guinan, E.C.
• Thalassemia Major and Sickle Cell Disease in Adolescents and Young Adults: Yacobovich, J.; Tamary, H.
• Adherence-Related Issues in Adolescents and Young Adults with Hematological Disorders: Leader, A.; Raanani, P.
• Nursing Care for Adolescents and Young Adults with Cancer: Literature Review: Dreyer, J.; Schwartz-Attias, I.
• Peer and Romantic Relationships among Adolescent and Young Adult Survivors of Childhood Hematological Cancer: A Review of Challenges and Positive Outcomes: Foster, R.H.; Stern, M.
• Survivorship in Adolescents and Young Adults: Kishnagari, A.; Tavakoli, M.; Park, J.H.
• Cardiotoxicity and Cardioprotection in Childhood Cancer: Lipschutz, S.E.; Sambatakos, P.; Maguire, M.; Karnik, R.; Ross, S.W.; Franco, V.J.; Miller, T.L.
• Fertility Preservation in Young Females with Hematological Malignancies: Shapira, M.; Raanani, H.; Cohen, Y.; Meirov, D.
• Challenges for Cancer Care Delivery to Adolescents and Young Adults: Present and Future: Meenaghan, M.R.; Wood, W.A.

Author Index / Subject Index

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Contents

Preface

Emerging Strategies for the Management of Hepatocellular Carcinoma: Kudo, M.

Original Articles


• Epidemiological Trends of Hepatocellular Carcinoma in Austria: Pinter, M.; Huette, F.; Zielonke, N.; Trauner, M.; Sieghart, W.; Peck-Radosavljevic, M.


Review Articles


• Ultrasound Fusion Imaging of Hepatocellular Carcinoma: A Review of Current Evidence: Minami, Y.; Kudo, M.

• Focal Lesions in the Cirrhotic Liver: Their Pivotal Role in Gadoxetic Acid-Enhanced MRI and Recognition by the Western Guidelines: Golfferi, R.; Garzillo, G.; Ascanio, S.; Renzulli, M.

Original Articles


• Prognostic Values of Vascular Endothelial Growth Factor and Matrix Metalloproteinase-2 in Hepatocellular Carcinoma after Radiotherapy: Suh, Y.-G.; Lee, E.-J.; Cha, H.; Yang, S.-H.; Seong, J.


Review Articles

• Adjuvant Therapy for Hepatocellular Carcinoma after Curative Treatment: Jung, W.-J.; Lin, C.-C.; Chen, W.-T.; Sheen, I.-S.; Lin, C.-Y.; Lin, S.-M.

• Considerations for Radiation Therapy in Hepatocellular Carcinoma: The Radiation Oncologists’ Perspective: Yu, J.J.; Park, H.C.


• Hepatocellular Carcinomas Expressing Stemness-Related Markers: Clinico-pathological Characteristics: Kim, H.; Park, Y.N.

• Clinical Features of Vascular Disorders Associated with Chronic Hepatitis Virus Infection: Nishida, N.; Kudo, M.

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Contents

Editorial
• Acute and Chronic Infections of the Gastrointestinal Tract:
  Stallmach, A.; Settmacher, U.

Review Articles
• Calculated Antibiosis of Acute Cholangitis and Cholecystitis:
  Bornscheuer, T.; Schmiedel, S.
• Rational Therapy of Clostridium difficile Infections:
  Keller, P.M.; Weber, M.H.
• Perioperative Antibiotic Prophylaxis and Antimicrobial Therapy
  of Intra-Abdominal Infections:
  Hagel, S.; Scheuerlein, H.
• Antibiosis of Necrotizing Pancreatitis:
  Arft, A.; Erhart, W.; Schafmayer, C.; Held, H.-C.; Hampe, J.
• Infections and Chronic Inflammatory Bowel Disease:
  Kucharzik, T.; Maaser, C.
• Therapy of Liver Abscesses:
  Lübbert, C.; Wiegand, J.; Karlas, T.

Interdisciplinary Discussion
• Acute and Chronic Infections of the Gastrointestinal Tract:
  Kujath, P. (Discussion Leader)

Original Article
• Verrucous Oesophageal Carcinoma: Single Case Report and
  Case Series Including 15 Patients – Issues for Consideration of
  Therapeutic Strategies:
  Behrens, A.; Stolte, M.; Pech, O.; May, A.; Ell, C.

Review Article
• Cytoreductive Surgery and HIPEC in the Baltic States:
  An International Scientific Workshop with Live Surgery:
  Poskus, E.; Strupas, K.; Gushchin, V.; Sugarbaker, P.H.

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6 issues per volume
Language: English
ISSN 1662–811X
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Antimicrobial Section

Review

134 Antibiotics and Breastfeeding
de Sá Del Fiol, F.; Barberato-Filho, S.; de Cássia Bergamaschi, C.; Lopes, L.C. (Sorocaba); Gauthier, T.P. (Miami, Fla.)

Original Paper

159 Identification of a Small Benzamide Inhibitor of Influenza Virus Using a Cell-Based Screening
Shin, W.-J.; Nam, K.-Y. (Seoul); Kim, N.-D. (Daegu); Kim, S.-H.; No, K.-T.; Seong, B.-L. (Seoul)

Novel Insights from Clinical Practice

148 The Importance of Supportive Care with Tranexamic Acid in Crimean-Congo Hemorrhagic Fever
Kaya, S.; Aksoy, F.; Kenç, N.N.; Eroğlu, A.; Köksal, I. (Trabzon)

Anticancer Section

Original Papers

111 Efficacy and Safety of Carboplatin and Etoposide Combination Chemotherapy for Extrapulmonary Neuroendocrine Carcinoma: A Retrospective Case Series

117 Microtubules and Actin Cytoskeleton of Cryptococcus neoformans as Targets for Anticancer Agents to Potentiate a Novel Approach for New Antifungals
Kopecká, M. (Brno)

122 Real-World Outcomes of Combination Chemotherapy with Trabectedin plus Pegylated Liposomal Doxorubicin in Patients with Recurrent Ovarian Cancer: A Single-Center Experience

127 Translating Clinical Evidence-Based Medicine into the Real World: Single-Center Experience with Cabazitaxel in Metastatic Prostate Cancer Patients
Moriceau, G.; Guillot, A.; Pacaut, C.; Méry, B. (Saint-Priest-en-Jarez); Falk, A.T. (Nice); Trone, J.-C.; Collard, O.; De Laroche, G.; Fournel, P.; Merrouche, Y.; Magné, N. (Saint-Priest-en-Jarez)

144 A Phase I Trial of Temsirolimus and Pemetrexed in Patients with Advanced Non-Small Cell Lung Cancer
Waqar, S.N.; Baggstrom, M.Q.; Morgensztern, D.; Williams, K.; Rigden, C.; Govindan, R. (St. Louis, Mo.)

152 Efficacy of Adjuvant Chemotherapy and Prognostic Factors for Patients with Extrahepatic Bile Duct Cancer
Lee, H.S.; Lee, S.H.; Roh, Y.H.; Chung, M.J.; Park, J.Y.; Park, S.W.; Song, S.Y.; Chung, J.B.; Bang, S. (Seoul)