


Highlights of This Issue 1829

SPECIAL FEATURES

CCR Translations

- 1831** Natural Killer Cell–Based Immunotherapy in Acute Myeloid Leukemia: Lessons for the Future
Aura Muntasell and Miguel López-Botet
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- 1834** Everything Old Is New Again: Using Nelfinavir to Radiosensitize Rectal Cancer
Raymond E. Meyn, Sunil Krishnan, and Heath D. Skinner
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Molecular Pathways

- 1837** Molecular Pathways: Isocitrate Dehydrogenase Mutations in Cancer
 Owen Clark, Katharine Yen, and Ingo K. Mellinghoff

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- 1844** Disruptive Immunology
Susan E. Bates
- 1845** Emerging Opportunities and Challenges in Cancer Immunotherapy
Theresa L. Whiteside, Sandra Demaria, Maria E. Rodriguez-Ruiz, Hassane M. Zarour, and Ignacio Melero
- 1856** Reversing T-cell Dysfunction and Exhaustion in Cancer
Hassane M. Zarour
- 1865** The Where, the When, and the How of Immune Monitoring for Cancer Immunotherapies in the Era of Checkpoint Inhibition
Priti S. Hegde, Vaios Karanikas, and Stefan Evers
- 1875** Making Better Chimeric Antigen Receptors for Adoptive T-cell Therapy
Marcela V. Maus and Carl H. June

- 1885** Targeting the Heterogeneity of Cancer with Individualized Neopeptide Vaccines
Özlem Türeci, Mathias Vormehr, Mustafa Diken, Sebastian Kreiter, Christoph Huber, and Ugur Sahin

- 1897** Dendritic Cell–Based Immunotherapy: State of the Art and Beyond
 Kalijn F. Bol, Gerty Schreibelt, Winald R. Gerritsen, I. Jolanda M. de Vries, and Carl G. Figdor

SPECIAL REPORT

- 1907** Research Priorities, Measures, and Recommendations for Assessment of Tobacco Use in Clinical Cancer Research
Stephanie R. Land, Benjamin A. Toll, Carol M. Moinpour, Sandra A. Mitchell, Jamie S. Ostroff, Dorothy K. Hatsukami, Sonia A. Duffy, Ellen R. Gritz, Nancy A. Rigotti, Thomas H. Brandon, Sheila A. Prindiville, Linda P. Sarna, Robert A. Schnoll, Roy S. Herbst, Paul M. Cinciripini, Scott J. Leischow, Carolyn M. Dresler, Michael C. Fiore, and Graham W. Warren

CANCER THERAPY: CLINICAL


- 1914** Larger Size of Donor Alloreactive NK Cell Repertoire Correlates with Better Response to NK Cell Immunotherapy in Elderly Acute Myeloid Leukemia Patients
Antonio Curti, Loredana Ruggeri, Sarah Parisi, Andrea Bontadini, Elisa Dan, Maria Rosa Motta, Simonetta Rizzi, Sara Trabanelli, Darina Ocadlikova, Mariangela Lecciso, Valeria Giudice, Fiorenza Fruet, Elena Urbani, Cristina Papayannidis, Giovanni Martinelli, Giuseppe Bandini, Francesca Bonifazi, Russell E. Lewis, Michele Cavo, Andrea Velardi, and Roberto M. Lemoli
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- 1922** Clinical Trial of Oral Nelfinavir before and during Radiation Therapy for Advanced Rectal Cancer
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1932 First-in-Human Phase I Study of GSK2126458, an Oral Pan-Class I Phosphatidylinositol-3-Kinase Inhibitor, in Patients with Advanced Solid Tumor Malignancies

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1940 KDR Amplification Is Associated with VEGF-Induced Activation of the mTOR and Invasion Pathways but does not Predict Clinical Benefit to the VEGFR TKI Vandetanib



Monique B. Nilsson, Uma Giri, Jayanthi Gudikote, Ximing Tang, Wei Lu, Hai Tran, Youhong Fan, Andrew Koo, Lixia Diao, Pan Tong, Jing Wang, Roy Herbst, Bruce E. Johnson, Andy Ryan, Alan Webster, Philip Rowe, Ignacio I. Wistuba, and John V. Heymach

1951 Gemtuzumab Ozogamicin Reduces Relapse Risk in *FLT3*/ITD Acute Myeloid Leukemia: A Report from the Children's Oncology Group

Katherine Tarlock, Todd A. Alonzo, Robert B. Gerbing, Susana C. Raimondi, Betsy A. Hirsch, Lillian Sung, Jessica A. Pollard, Richard Aplenc, Michael R. Loken, Alan S. Gamis, and Soheil Meshinchi

PERSONALIZED MEDICINE AND IMAGING

1958 The Stat3/5 Signaling Biosignature in Hematopoietic Stem/Progenitor Cells Predicts Response and Outcome in Myelodysplastic Syndrome Patients Treated with Azacitidine

Paraskevi Miltiades, Eleftheria Lamprianidou, Theodoros P. Vassilakopoulos, Sotirios G. Papageorgiou, Athanasios G. Galanopoulos, Christos K. Kontos, Panagiotis G. Adamopoulos, Evangelia Nakou, Sofia Vakalopoulou, Vassilia Garypidou, Maria Papaioannou, Evdoxia Hatjiharissi, Helen A. Papadaki, Emmanuil Spanoudakis, Vassiliki Pappa, Andreas Scorilas, Constantinos Tsatalas, and Ioannis Kotsianidis on behalf of the Hellenic MDS Study Group

1969 The Immune Checkpoint Regulator PD-L1 Is Highly Expressed in Aggressive Primary Prostate Cancer

Heidrun Gevensleben, Dimo Dietrich, Carsten Golletz, Susanne Steiner, Maria Jung, Thore Thiesler, Michael Majores, Johannes Stein, Barbara Uhl, Stefan Müller, Jörg Ellinger, Carsten Stephan, Klaus Jung, Peter Brossart, and Glen Kristiansen

CANCER THERAPY: PRECLINICAL

1978 Selective Toxicity of Investigational Ixazomib for Human Leukemia Cells Expressing Mutant Cytoplasmic NPM1: Role of Reactive Oxygen Species

Jacqueline S. Garcia, Min Huang, Bruno C. Medeiros, and Beverly S. Mitchell

1989 AGS16F Is a Novel Antibody Drug Conjugate Directed against ENPP3 for the Treatment of Renal Cell Carcinoma



Fernando Doñate, Arthur Raitano, Kendall Morrison, Zili An, Linnette Capo, Hector Aviña, Sher Karki, Karen Morrison, Peng Yang, Jimmy Ou, Ryuichi Moriya, Yuriy Shostak, Faisal Malik, Rossana Nadell, Wendy Liu, Dautlet Satpayev, John Atkinson, Ingrid B.J. Joseph, Daniel S. Pereira, Pia M. Challita-Eid, and David R. Stover

2000 Mechanistic Investigation of Bone Marrow Suppression Associated with Palbociclib and its Differentiation from Cytotoxic Chemotherapies



Wenyue Hu, Tae Sung, Bart A. Jessen, Stephane Thibault, Martin B. Finkelstein, Nasir K. Khan, and Aida I. Sacaan

2009 Taselisib (GDC-0032), a Potent β -Sparing Small Molecule Inhibitor of PI3K, Radiosensitizes Head and Neck Squamous Carcinomas Containing Activating *PIK3CA* Alterations

Zachary S. Zumsteg, Natasha Morse, Gabriel Kringsfeld, Gaorav Gupta, Daniel S. Higginson, Nancy Y. Lee, Luc Morris, Ian Ganly, Stephan L. Shiao, Simon N. Powell, Christine H. Chung, Maurizio Scaltriti, and José Baselga

2020 Romidepsin and Azacitidine Synergize in their Epigenetic Modulatory Effects to Induce Apoptosis in CTCL

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2032 An Immunogenetic Signature of Ongoing Antigen Interactions in Splenic Marginal Zone Lymphoma Expressing IGHV1-2*04 Receptors

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2051 Identification of CD25 as STAT5-Dependent Growth Regulator of Leukemic Stem Cells in Ph⁺ CML

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2062 Defects in the Fanconi Anemia Pathway in Head and Neck Cancer Cells Stimulate Tumor Cell Invasion through DNA-PK and Rac1 Signaling

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2074 Genomic DNA Hypomethylation and Risk of Renal Cell Carcinoma: A Case-Control Study

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2083 NOTCH1 and SOX10 are Essential for Proliferation and Radiation Resistance of Cancer Stem-Like Cells in Adenoid Cystic Carcinoma

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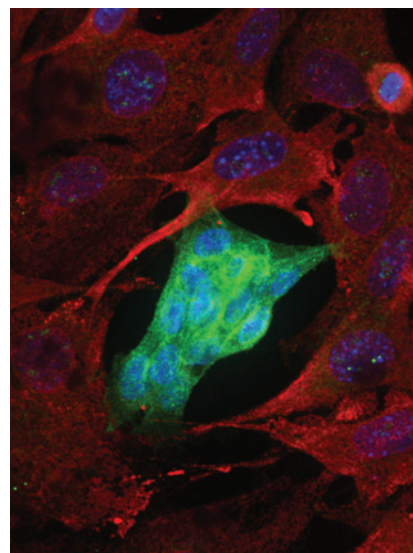
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ABOUT THE COVER

Expression of NOTCH1 (green) in cancer stem cells isolated from salivary adenoid cystic carcinoma. For details, see the article by Panaccione and colleagues on page 2083 of this issue.



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