CANCER DISCOVERY

IN THIS ISSUE
Highlighted research articles ......................... 1047

NEWS IN BRIEF
Important news stories affecting the community ........ 1052

RESEARCH WATCH
Selected highlights of recent articles of exceptional significance from the cancer literature ............... 1057

ONLINE
For more News and Research Watch, visit Cancer Discovery online at http://cancerdiscovery.aacrjournals.org/content/early/by/section.

VIEWS
In The Spotlight
More T Cells versus Better T Cells in Patients with Breast Cancer ........ 1062
D.E. Speiser and G. Verdeil
See article, p. 1098

Targeting the Noncoding Genome: Superenhancers Meet Their Kryptonite ....... 1065
E. Wang and J. Aifantis
See article, p. 1136

Soils and Seeds That Initiate Pancreatic Cancer Metastasis ........................ 1067
C.R. Vakoc and D.A. Tuveson
See article, p. 1184

REVIEW
How Ribosomes Translate Cancer ........................................ 1069
S.O. Sulima, I.J.F. Hofman, K. De Keersmaecker, and J.D. Dinman

RESEARCH BRIEF
TCR Repertoire Intratumor Heterogeneity in Localized Lung Adenocarcinomas: An Association with Predicted Neoantigens Heterogeneity and Postsurgical Recurrence ....................... 1088

Précis: T-cell receptor sequencing of 45 tumor regions from 11 patients with NSCLC found T-cell repertoire intratumor heterogeneity that was associated with disease relapse and reduced disease-free survival.

RESEARCH ARTICLES
Immune Escape in Breast Cancer During In Situ to Invasive Carcinoma Transition ........ 1098

Précis: Progression from ductal carcinoma in situ to invasive ductal carcinoma is characterized by a switch to a more suppressive immune microenvironment.

See commentary, p. 1062

Whole-Genome and Epigenomic Landscapes of Etiologically Distinct Subtypes of Cholangiocarcinoma ........... 1116

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ON THE COVER
To determine how intratumor heterogeneity in the T-cell landscape correlates with the genomic landscape and with patient outcome in non–small cell lung cancer (NSCLC), Reuben and colleagues characterized the T-cell repertoire in a cohort of 11 patients with NSCLC who had previously been subject to whole-exome sequencing. T-cell receptor (TCR) sequencing profiled 45 tumor regions across the 11 tumors and revealed a high level of intratumor heterogeneity, with differences in T-cell density, clonality, and repertoire. TCR intratumor heterogeneity was linked to neoantigen heterogeneity and was correlated with disease relapse and reduced disease-free survival in patients with NSCLC. These findings link T-cell repertoire heterogeneity to genomic intratumor heterogeneity and relapse in NSCLC. For details, please see the article by Reuben and colleagues on page 1088.

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Loss of MutL Disrupts CHK2-Dependent Cell-Cycle Control through CDK4/6 to Promote Intrinsic Endocrine Therapy Resistance in Primary Breast Cancer


Précis: Characterization of enhancer landscapes in patients with AML identified a subset of non-APL AML with an RARA superenhancer that confers sensitivity to treatment with the selective RARα agonist SY-1425.

See commentary, p. 1065

Overcoming the Immunosuppressive Tumor Microenvironment of Hodgkin Lymphoma Using Chimeric Antigen Receptor T Cells


Précis: Anti-CD123 chimeric antigen receptor T cells overcome the immunosuppressive tumor microenvironment in Hodgkin lymphoma by targeting both malignant cells and tumor-associated macrophages.

BLIMP1 Induces Transient Metastatic Heterogeneity in Pancreatic Cancer


Précis: Pancreatic ductal adenocarcinoma metastasis is promoted by hypoxia and HIF–driven upregulation of the prometastatic transcription factor BLIMP1.

See commentary, p. 1067

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