IN THIS ISSUE
Highlighted research articles 377

NEWS IN BRIEF
Important news stories affecting the community 380

NEWS IN DEPTH
Q&A: Christopher Wild on Global Tobacco Use 383
J&J Partners with Yale to Share Trial Data 384

RESEARCH BRIEFS
CD74–NRG1 Fusions in Lung Adenocarcinoma 415

RESEARCH WATCH
Selected highlights of recent articles of exceptional significance from the cancer literature 385

ONLINE
For more News and Research Watch, visit Cancer Discovery online at http://CDnews.aacrjournals.org.

IN THIS ISSUE CONTENTS

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Highlighted research articles 377

NEWS IN BRIEF
Important news stories affecting the community 380

NEWS IN DEPTH
Q&A: Christopher Wild on Global Tobacco Use 383
J&J Partners with Yale to Share Trial Data 384

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Selected highlights of recent articles of exceptional significance from the cancer literature 385

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Highlighted research articles 377

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Important news stories affecting the community 380

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Q&A: Christopher Wild on Global Tobacco Use 383
J&J Partners with Yale to Share Trial Data 384

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Highlighted research articles 377

NEWS IN BRIEF
Important news stories affecting the community 380

NEWS IN DEPTH
Q&A: Christopher Wild on Global Tobacco Use 383
J&J Partners with Yale to Share Trial Data 384

RESEARCH BRIEFS
CD74–NRG1 Fusions in Lung Adenocarcinoma 415

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Selected highlights of recent articles of exceptional significance from the cancer literature 385

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RNA Helicase A Is a Downstream Mediator of KIF1Bβ Tumor-Suppressor Function in Neuroblastoma


Précis: Loss of KIF1Bβ in neuroblastoma reduces RNA helicase A nuclear translocation and subsequent XIAP-associated factor 1-dependent neural pruning.

See commentary, p. 392

Inhibition of KRAS-Driven Tumorigenicity by Interruption of an Autocrine Cytokine Circuit


Précis: Activation of autocrine CCL5 and IL-6 signaling by TBK1 and IKKe promotes KRAS-dependent non-small cell lung cancer cell growth.

Essential Role of the Linear Ubiquitin Chain Assembly Complex in Lymphoma Revealed by Rare Germline Polymorphisms


Précis: Germline polymorphisms that promote linear polyubiquitin chain assembly complex (LUBAC) formation and NF-κB signaling in ABC DLBCL implicate LUBAC as a therapeutic target.

See commentary, p. 394

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Fernandez-Cuesta and colleagues identified recurrent fusions between CD74 and the exons encoding the EGF-like domain of the neuron-specific neuregulin 1 (NRG1) III-β3 isoform in invasive mucinous lung adenocarcinomas that lack common kinase driver mutations. The CD74–NRG1 fusion generates a membrane-bound protein that exposes the EGF-like domain of NRG1 on the extracellular surface, which creates a ligand for ERBB2–ERBB3 heterodimers and promotes oncogenic transformation by activating the PI3K–AKT pathway downstream of ERBB3. These findings implicate CD74–NRG1 as an oncogenic driver in lung adenocarcinomas and suggest that the ERBB3–PI3K–AKT pathway may be a therapeutic target in the invasive mucinous subtype, which currently lacks effective treatments. For details, please see the article by Fernandez-Cuesta and colleagues on page 415.

Autophagy-Dependent Production of Secreted Factors Facilitates Oncogenic RAS-Driven Invasion

R. Lock, C.M. Kenific, A.M. Leidal, E. Salas, and J. Debnath

Précis: IL6 secretion and WNT5A and MMP2 expression are autophagy-dependent and necessary for HRASV12-driven mammary epithelial cell invasion.

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