Cancer Research

Table of Contents

AACR American Association for Cancer Research

November 1, 2017 • Volume 77 • Number 21

SPECIAL FEATURES

FOCUS ON COMPUTER RESOURCES

Complimentary access to these online-only articles describing freely available computing tools and resources: cancerres.aacrjournals.org/compres

Table of Contents

Table of Contents

Table of Contents

TUMOR AND STEM CELL BIOLOGY

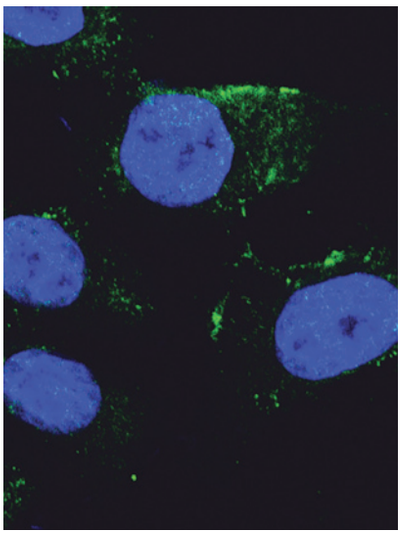
Table of Contents

Table of Contents

AC icon indicates Author Choice
For more information please visit www.aacrjournals.org

Table of Contents

ABOUT THE COVER



Albumin-bound/conjugated chemotherapies such as nab-paclitaxel (Abraxane) are a class of chemotherapies that have shown improvements over conventional chemotherapy in certain tumor types, resulting in reduced toxicity and/or increased efficacy. The improved targeting to tumor cells is thought to be in part due to an enhanced permeability and retention effect within tumors, but no useful molecular biomarkers exist to predict efficacy to this class of drugs. Caveolae are flask-shaped invaginations of the plasma membrane that appear important for albumin uptake, and caveolin-1 is the protein required for caveolae formation. Using immunofluorescence, it was found that the degree of caveolin-1 expression dictates uptake of nab-paclitaxel, as visualized by immunofluorescence for albumin (green) in DAPI-stained (blue) tumor cells. For details, see article by Chatterjee and colleagues on page 5925.

77 (21)

Cancer Res 2017;77:e123-6048.