

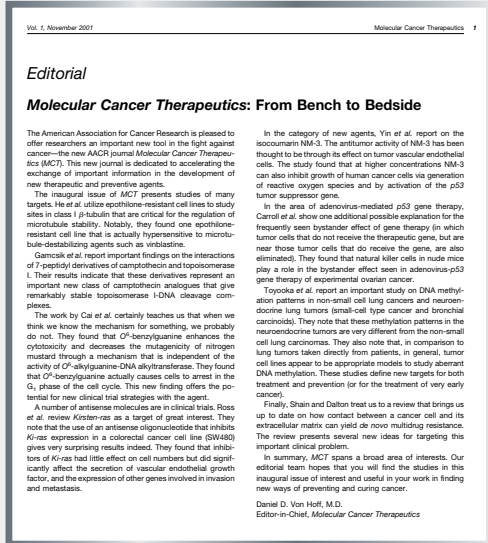
2001

# New AACR Journal Focuses on Targeted Therapies: *Molecular Cancer Therapeutics*



**DANIEL D. VON HOFF, MD,  
FOUNDING EDITOR-IN-CHIEF, 2001-2012**

In a career devoted to discovering targeted therapies for many different cancers, Dr. Von Hoff is also a consummate physician, literally moving between the bench and the bedside. His research is responsible for developing hundreds of drugs, including gemcitabine, the first effective therapy for pancreatic cancer. He has launched a global network for pancreatic cancer research and heads one of AACR's Dream Teams. A Past President of the AACR, Dr. Von Hoff is presently physician-in-chief and director of translational research at the Translational Genomics Research Institute in Phoenix, AZ, and holds academic appointments at several institutions in Arizona.



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Inaugural Editorial

## Publication of GW2016 (Approved as Lapatinib in 2007)

HIGHLY CITED ARTICLE

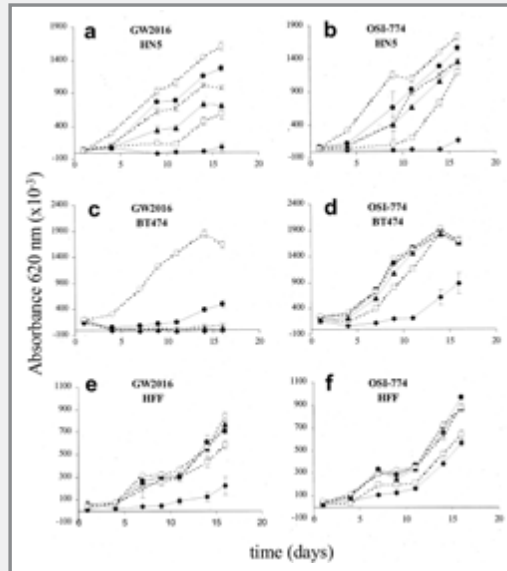


FIGURE 4. Growth arrest or cell death in EGFR- or ErbB-2-overexpressing cells caused by treatment with GW2016 or OSI-774 (an EGFR-selective inhibitor, used as a positive control), beginning on day 1. GW2016 (or OSI-774) was removed on day 4 and replaced with fresh growth medium. Cells were fed weekly for the duration of the assay. Methylene blue staining was performed at the time points indicated on the graph. Doses of GW2016 resulting in inhibition of growth after 3 days of drug exposure were resected and lysed at the expected C<sub>max</sub> for each compound (4 h post-dose for SU11248 and 2 h post-dose for STI571). Lyasates were immunoprecipitated with an anti-KIT or anti-PDGFR $\beta$  antibody. Phosphotyrosine and total KIT and PDGFR $\beta$  levels were determined by Western blotting.

2003

## First Impact Factor: 3.201

## Report of SU11248 (Approved as Sunitinib in 2006) in Preclinical Models of Small Cell Lung Cancer

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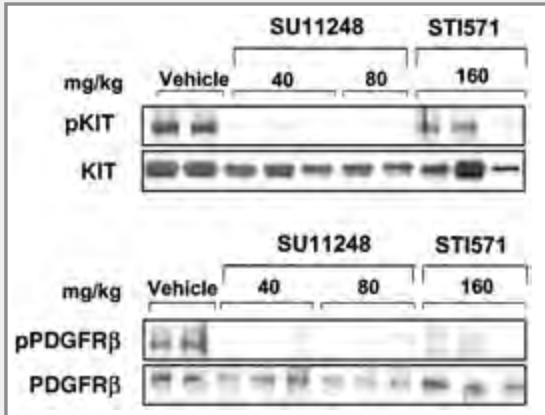


FIGURE 5. SU11248 inhibits KIT and PDGFR $\beta$  phosphorylation in vivo. From the end of the efficacy studies, athymic mice bearing NCI-H526 SCLC s.c. tumors were given a single oral dose of SU11248 at 40 or 80 mg/kg, STI571 at 160 mg/kg, or vehicle control. Tumors were resected and lysed at the expected C<sub>max</sub> for each compound (4 h post-dose for SU11248 and 2 h post-dose for STI571). Lyasates were immunoprecipitated with an anti-KIT or anti-PDGFR $\beta$  antibody. Phosphotyrosine and total KIT and PDGFR $\beta$  levels were determined by Western blotting.

SCIENTIFIC  
PUBLISHING  
CENTENNIAL

1916-2016

AACR American Association for Cancer Research

# 2004

## Discovery of PD 0332991 (Approved as Palbociclib in 2015)

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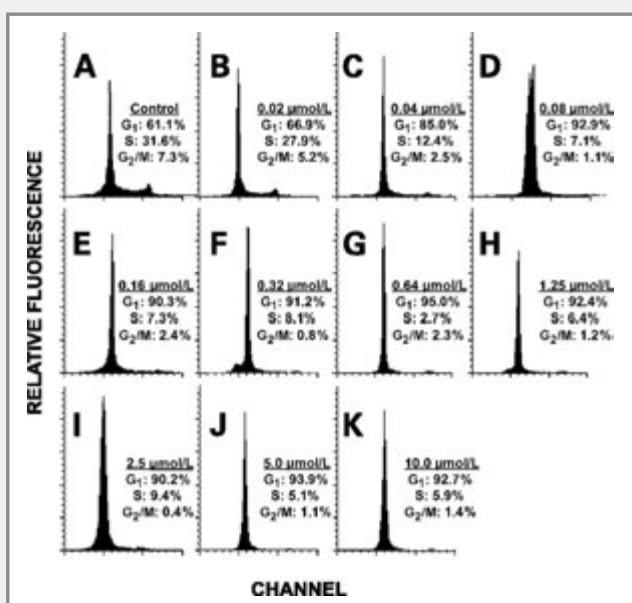


FIGURE 3. PD 0332991 causes an exclusive G1 arrest. MDA-MB-453 human breast carcinoma cells were exposed to varying concentrations of PD 0332991 for 24 hours. Cells were harvested and fixed as described in Materials and Methods. The DNA histograms were generated by flow cytometry and the percentage of cells in each phase of the cell cycle was determined using ModFit. Additional details are given in Materials and Methods.

# 2008

## First publication of NVP-BEZ235 (dactolisib); most-cited paper

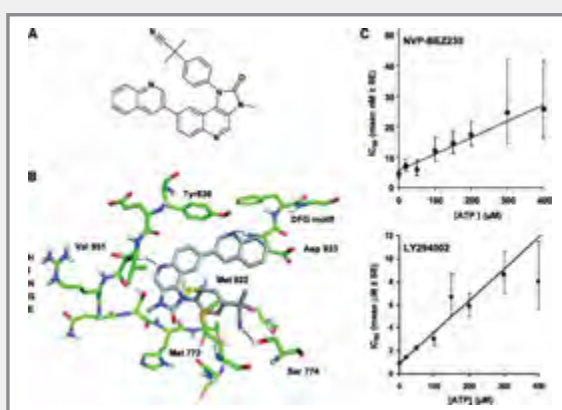


FIGURE 1. Enzymatic characterization of NVP-BEZ235. A, structure of NVP-BEZ235. B, binding mode of NVP-BEZ235 docked in the catalytic site of PI3Kα. The model was generated using the coordinates of known PI3Kγ crystal structures, particularly those of the complex with staurosporine (PDB code 1EBZ), based on a standard sequence alignment. All possible orientations were considered to determine which one was the most consistent with the available structure-activity relationship, particularly with regard to the importance of the H-bond acceptor nitrogen atoms present in the chemical structure of the inhibitor for high potency. C, NVP-BEZ235 is an ATP competitive inhibitor. IC50 values determined using the MaxiSorp assay were plotted against the ATP concentrations used in the presence of either NVP-BEZ235 or LY294002. The large error bars at high ATP concentrations are due to isotopic dilution (lower counts). Data were fitted by linear curve fitting with weights (1/SE<sup>2</sup>). The positive slope of the straight line indicates a competitive effect ( $P < 0.01$ ) for both inhibitors. Note that this analysis does not exclude the presence of a noncompetitive component (mixed inhibition).

HIGHLY CITED ARTICLE



# 2012

## CEO of Research Institute Appointed Editor-in-Chief



JOHN C. REED, MD, PHD, EDITOR-IN-CHIEF, 2012-2013

# 2013

## Angiogenesis Expert Named Editor-in-Chief



NAPOLEONE FERRARA, MD, EDITOR-IN-CHIEF, 2013-PRESENT

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