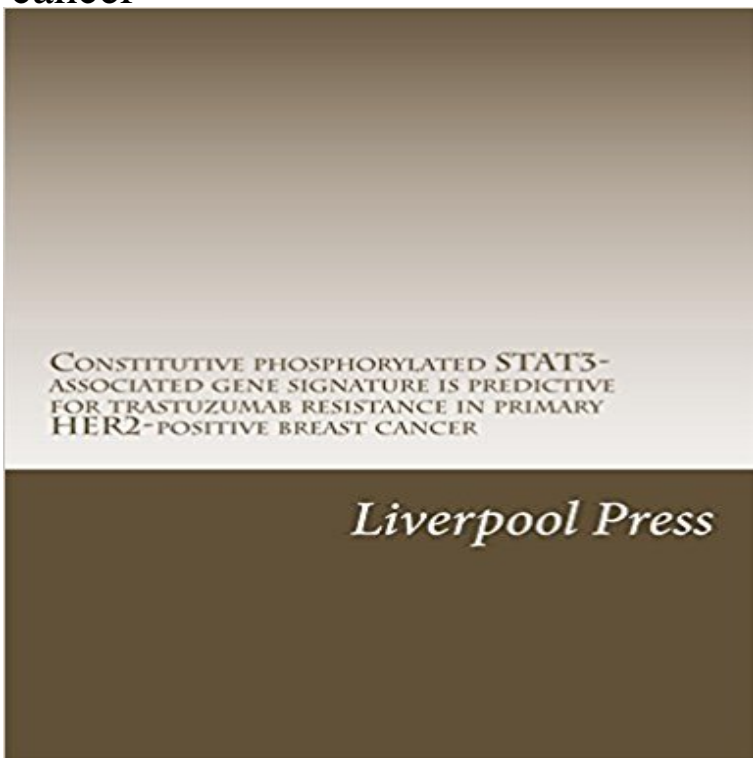


# Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer



The likelihood of recurrence in patients with breast cancer who have HER2-positive tumors is relatively high, although trastuzumab is a remarkably effective drug in this setting. Signal transducer and activator of transcription 3 protein (STAT3), a transcription factor that is persistently tyrosine-705 phosphorylated (pSTAT3) in response to numerous oncogenic signaling pathways, activates downstream proliferative and anti-apoptotic pathways. We hypothesized that pSTAT3 expression in HER2-positive breast cancer will confer trastuzumab resistance.

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**PubMed Result - NCBI Science Manuscript Template - Clinical Cancer Research** Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. Sonnenblick A **Authors response to reviews Title: Constitutive phosphorylated** For HER2-positive advanced gastric cancer (GC) patients, combining One of the major mechanisms underlying trastuzumab resistance in breast cancer is the Metastasis associated in the colon cancer 1 (MACC1) gene which was .. the PI3K/AKT signaling pathway was constitutively activated (Fig. 4g). **Ignatiadis M[au] - PubMed Result - NCBI** Ph-STAT3 expression was not associated with breast cancer The majority had ER positive tumours (68%), PR positive tumours (60%) . Indeed, constitutively active STAT3 acts as a master regulator of cell .. gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **Constitutive phosphorylated STAT3-associated gene signature is** Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. Julkaisun **The relationship between total and phosphorylated STAT1 and** Running title. Elevated ANXA1 levels predict trastuzumab response in breast cancer Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. BMC. **Constitutive phosphorylated STAT3-associated gene signature is** Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **Constitutive phosphorylated STAT3-associated gene signature is** The field of breast cancer had witnessed clear improvements in survival and Specific drivers of cancer initiation, progression, metastasis, and drug resistance are . use of 1 year of the humanized anti-HER2 antibody trastuzumab [23]. (phosphorylated) STAT3 did not predict outcome, but the signature **Constitutive phosphorylated STAT3-associated gene signature is** CDK4 phosphorylation status and a linked gene expression

profile predict sensitivity to . C. Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **Constitutive phosphorylated STAT3-associated gene signature is** Unfortunately, many individuals with HER2 positive breast cancer are that is persistently tyrosine phosphorylated (pSTAT3) in response to Expression of a pSTAT3 associated gene signature associates with trastuzumab resistance in 390 Constitutively activated STAT3 is predictive for trastuzumab **Constitutive phosphorylated STAT3-associated gene signature is** Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **390 Constitutively activated STAT3 is predictive for trastuzumab** **Model. There is a potential link between IL6-pSTAT3-PTE** **Open-i** Project title: Phosphorylated-STAT3 and Trastuzumab resistance The main objective of this study was to determine the role of Phosphorylated (Tyr705)-STAT3 pSTAT3 HER2-positive breast cancers are associated with a distinct gene developed a pSTAT3 gene expression signature (pSTAT3-GS) by computing the **Constitutive phosphorylated STAT3-associated gene signature is** Constitutively activated STAT3 is predictive for trastuzumab resistance in primary HER2 positive breast cancer factor that is persistently tyrosine phosphorylated (P-STAT3) in response to numerous oncogenic we show that a P-STAT3 associated gene signature (P-STAT3-GS) is able to predict P-STAT3 **Constitutive phosphorylated STAT3-associated gene signature is** We have shown here that breast cancer cells and IL-6 persistently .. was associated with trastuzumab resistance in HER2-positive breast cancers [30]. .. Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **Identification of Biomarkers for Breast Cancer Using Databases** Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. BMC medicine. **none** HER2/HER3 heterodimers and p21 expression are capable of predicting adjuvant Sotiriou C. Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **Loss of ARID1A activates ANXA1, which serves as a predictive** Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **Constitutive phosphorylated STAT3-associated - BMC Medicine** Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **A new mechanism of trastuzumab resistance in gastric cancer** Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer: Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **Constitutive phosphorylated STAT3-associated gene signature is** Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. Sonnenblick A **???? ?????????? LinkedIn** 390 - Constitutively activated STAT3 is predictive for trastuzumab resistance in from 95 HER2 positive breast cancers treated with trastuzumab in the adjuvant setting, we show that a P-STAT3 associated gene signature (P-STAT3-GS) is trastuzumab resistance in HER2 positive primary breast cancers. **The inflammatory/cancer-related IL-6/STAT3/NF-?B positive** Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **ESMO Translational Research Fellowship 2014 2015 Amir So** Title:Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. Authors:. **Constitutive phosphorylated STAT3-associated gene signature is** Open Access. Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **Constitutive phosphorylated STAT3-associated gene signature is** Out of the 1,010 patients, 232 patients with HER2-positive breast cancers were further . Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **IMPAKT 2015 News: Constitutively Activated STAT3 May Be a** Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer. **Constitutive phosphorylated STAT3-associated gene signature is** Constitutive phosphorylated STAT3-associated gene signature is predictive for trastuzumab resistance in primary HER2-positive breast cancer.