

There are no translations available.

## **Molecular analysis of head and neck biopsy**

**for prognosis and targeted therapy**

- **Relative gene expression**

[EGFR](#)

[ERBB2](#)  
[ERBB3](#)

[MET](#)

[VEGFR2](#)

PDGFR $\alpha$

C-KIT

**FOXM1**

IGFIR

CXCR4

CD133

CYCLIN D1

PTEN

**OSTEOPONTIN**

SURVIVIN

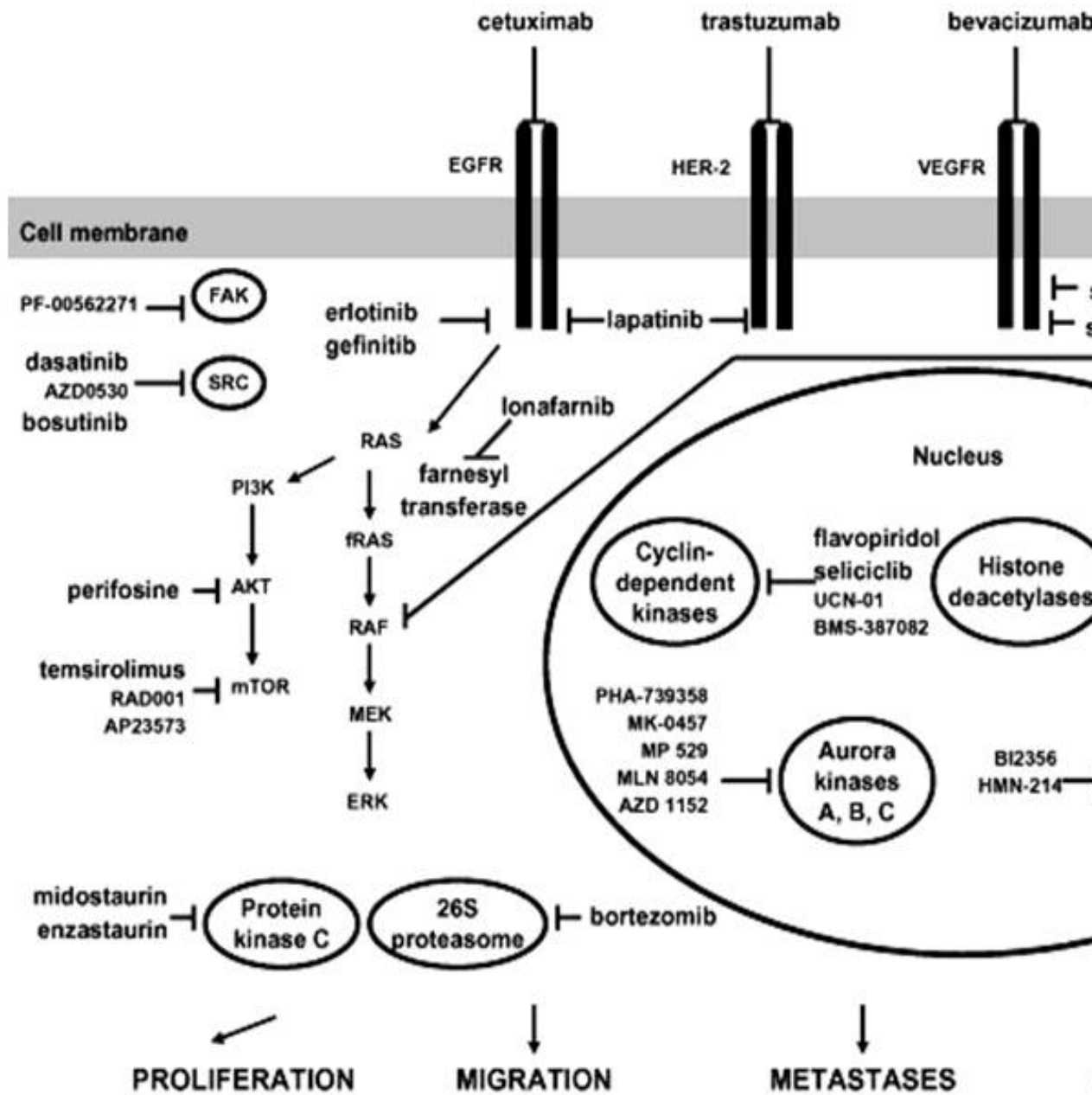
**P13K $\alpha$**

**AKT**

mTOR

DNMT1

## SIGNALING PATHWAYS AND POTENTIAL TARGETED THERAPIES IN



Relative quantitative gene expression for response to chemotherapy

BCRP (	platinum	,irinotecan,topotecan)
--------	----------	------------------------

MRP1 (cyclophosphamide, etoposide, vincristine)
ERCC1, BRCA1 (platinum)
TYMS (5-FU, capecitabine, pemetrexed)
PGP (doxorubicin, paclitaxel, etoposide, vincristine)
RRM1, RRM2, HUR (gemcitabine)
TUBB3, SPARC, TLE3, TAU (taxanes)
MGMT (temozolomide)

## HIGH EXPRESSION

□

## NO RESPONSE

### TOPO2A

(doxorubicin, epirubicin)

### TOPO1

(irinotecan, etoposide)

**HIGH EXPRESSION**

□

**RESPONSE**