

PHOSPHORYLATE
(to Staying Alive by the BeeGees)

**Well, you can tell by the way I float around, I'm a growth factor,
And its time to bind.**

**Receptor's here, it's pocket's warm,
Now lets kinase up a storm.**

There's A-T-P, here to play (sung by EGF)

Two Receptors touch today...

Then bind SOS, GEF, and RAS,

Signaling is such a blast.

Either on the membrane or the inside of the cell,
Phosphorylate, phosphorylate.

Feel the membrane shaking, A-T-P is breaking CHORUS

Phosphorylate, phosphorylate.

Bind, bind, bind, bind Phosphorylate, phosphorylate.

Bind, bind, bind, bind Phosphorylate...

Well, my names RAF, I'm mean and hard.

I just felt RAS, my serine's charged.

Cytoplasm's energized,

MAP-Kinase on a phosphate high

D-N-A, you're the best, (sung by RAF)

Here's AP one, and my friend ETS

And R-b too, and cyclin D

Party in the cell, pharmacology.

Polymerase is groovin , chromatin is movin

Phosphorylate, Phosphorylate

Histones unwinding, everybody's binding CHORUS

Phosphorylate, Phosphorylate.

Bind, bind, bind, bind Phosphorylate, phosphorylate.

Bind, bind, bind, bind Phosphorylate...

Anticipation, Acetylation. Transcription meltdown, now. CHORUS II

Anticipation, Acetylation, Transcription high.....

**Well, you can tell by my look, I'm really cool
I'm the drug man, and its time to rule..**

**Stop this party, this signal storm
You all are getting much too warm
My friend and I, real tough dudes
Receptors bind us, they get fooled
We look like the other kind
But nothing happens when WE bind.**

**(sung by Iressa,
(gefitinib)) and his
friend cetuximab
(Erbitux))**

Either on the membrane or the inside of the cell,
Phosphorylate, phosphorylate.

Feel the membrane shaking, A-T-P is breaking **CHORUS**

Phosphorylate, phosphorylate.

Bind, bind, bind, bind Phosphorylate, phosphorylate.

Bind, bind, bind, bind Phosphorylate, phosphorylate.

Those Phosphatases, now they take over, Receptors lonely now.

Phosphates are gone now, Receptors lonely now.

Phosphorylate! **CHORUS III**

Those Phosphatases, now they take over, Receptors lonely now.

Phosphates are gone now, Receptors lonely now. Phosphorylate.

Those Phosphatases, now they take over, Receptors lonely now. ...

Phosphates are gone now, Receptors lonely now.

Phosphorylate.

Those Phosphatases, now they take over, Receptors lonely now. ...

Phosphates are gone now, Receptors lonely now.

Phosphorylate.