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 it’s time to rule..
Stop this party, this signal storm
You all are getting much too warm (sung by Iressa,
My friend and I, real tough dudes (gefitinib)) and his
Receptors bind us, they get fooled friend cetuximab
We look like the other kind (Erbitux))
But nothing happens when WE bind.

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.