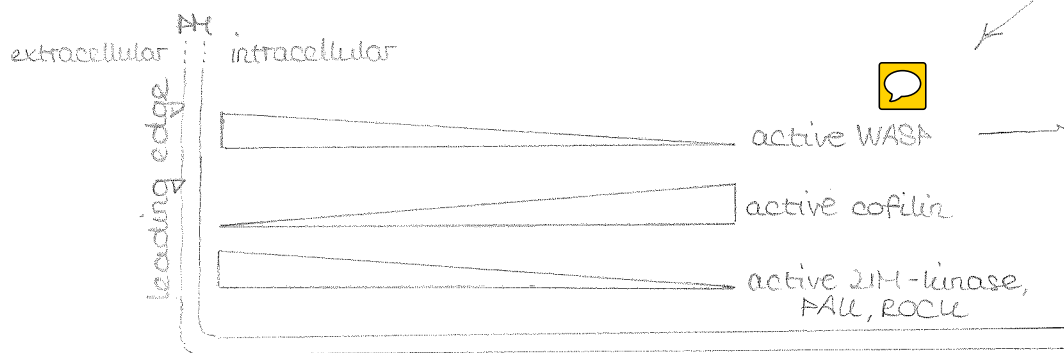
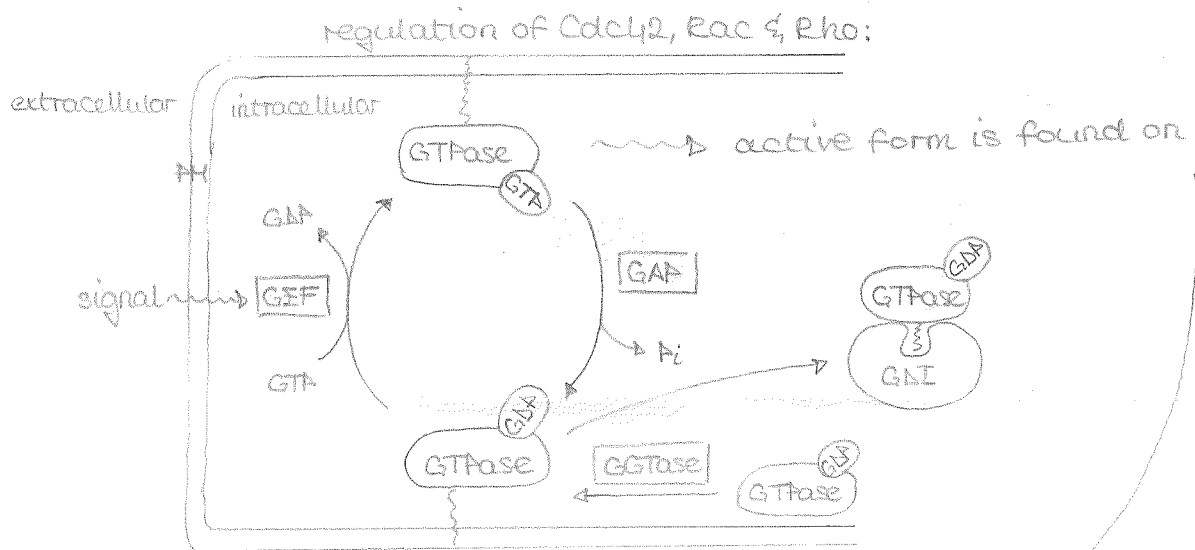


Group 6) AJ, Slaven, Tugce

BCII, FS2018

Task 2) Function of the Arp2/3 complex & cofilin at the leading edge

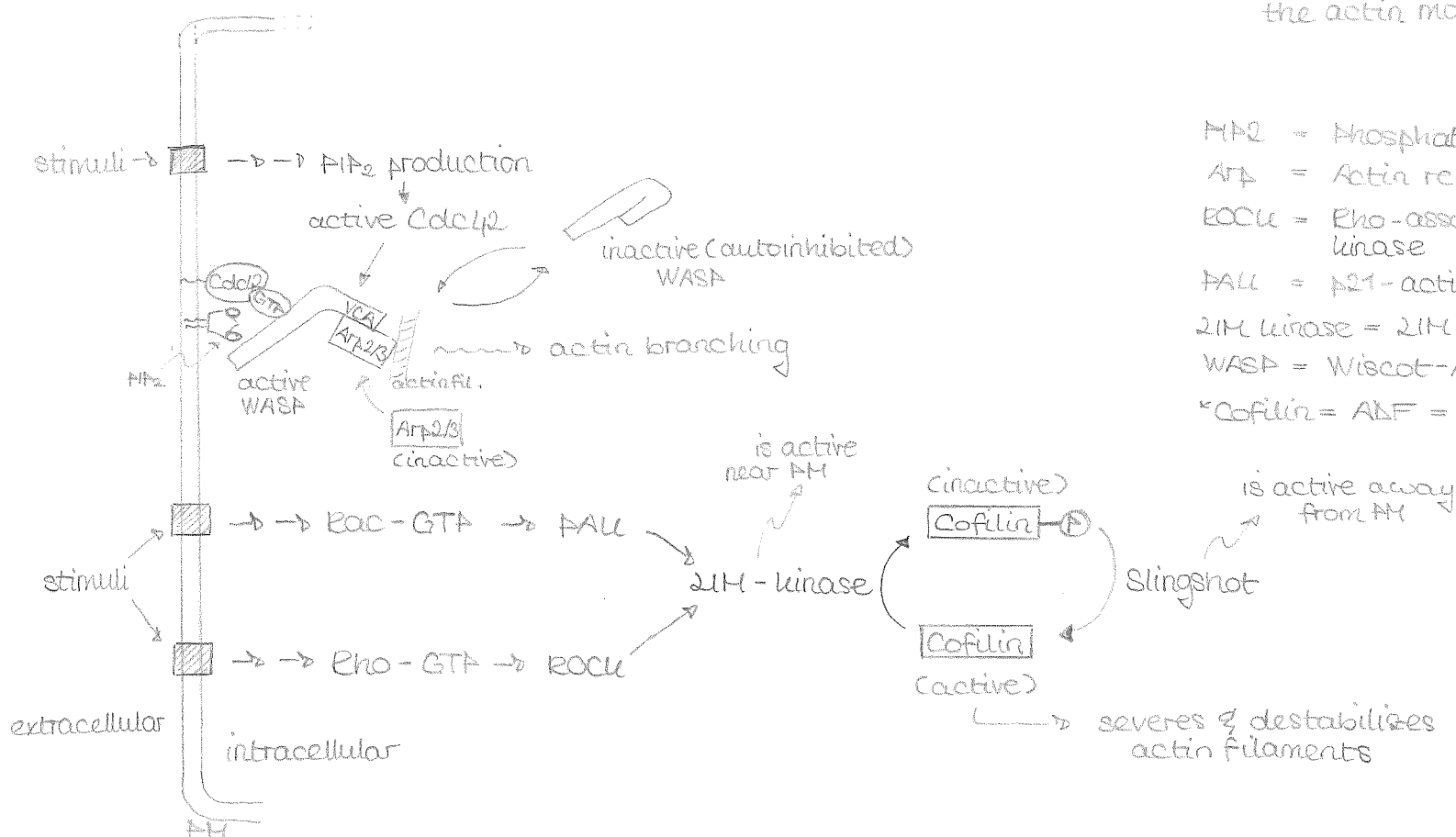


branching happens in lamellipodium (near plasma membrane, where active Cdc42 & PIP₂ are)

actin filaments are severed away from PM

new barbed ends can be used for extension (actin turnover ↑)

monomers from destabilized filament feed the actin monomer pool



PIP₂ = Phosphatidylinositol (4,5)-biphosphate

Arp = Actin related protein

ROCK = Rho-associated serine/threonine protein kinase

PAK = p21-activated kinase

LIM kinase = LIM domain containing kinase

WASP = Wiskott-Aldrich syndrome protein

* Cofilin = ADF = actin-depolymerizing factor

