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ATP-POSITIONING G-LOOP THAT REGULATE PROTEIN  
KINASE ACTIVITY

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# POST-TRANSLATIONAL MODIFICATIONS AT THE ATP-POSITIONING G-LOOP THAT REGULATE PROTEIN KINASE ACTIVITY

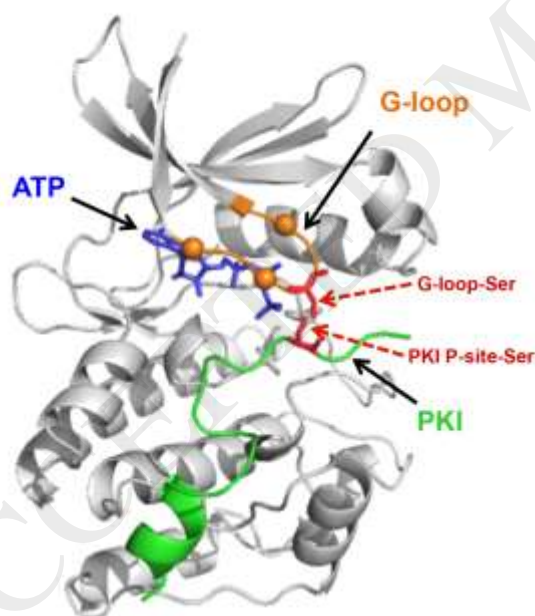
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## Graphical abstract



### G-LOOP Sites that are targets for post-translational modifications

PKA:	GT <b>GS</b> FG
PKC:	GK <b>GS</b> FG
CDK:	GEG <b>TYG</b>
c-Abl:	GGGQ <b>Y</b> G
Src:	GQG <b>C</b> FG
B-Raf:	G <b>SGS</b> FG

**STRUCTURE OF THE PROTEIN KINASE A CATALYTIC SUBUNIT WITH ATP (blue) AND THE PKI INHIBITOR PROTEIN (green).**

*The G-loop is highlighted in orange with its phosphorylation site in red sticks.*

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