

BIO-MOLECULAR MODEL BUILDING

Exam Exercise

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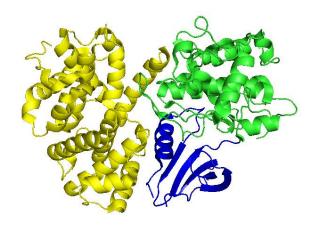


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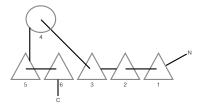
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1 Question 1 - Kinases

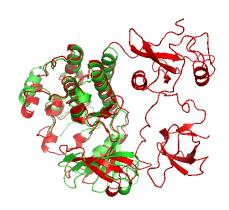
1.1 Part a



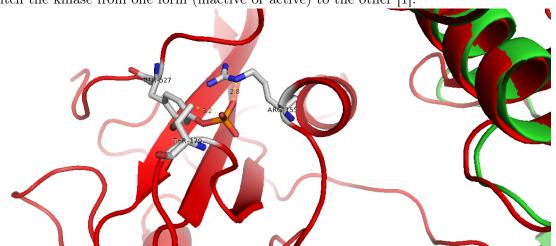
1.2 Part b



2 Question 2 - Kinase active/inactive forms



The role of regulatory domains in the kinases are to induce conformational changes that switch the kinase from one form (inactive or active) to the other [1].

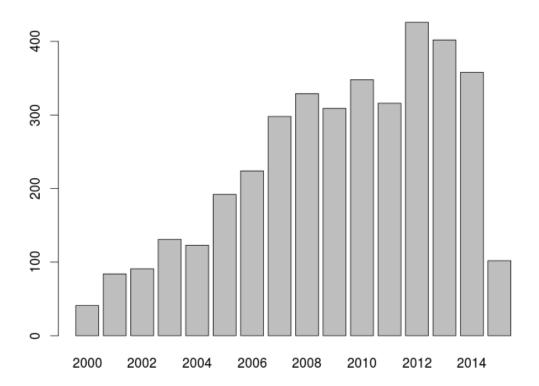


3 Question 3 -

> table(years)

years

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 41 84 91 131 123 192 224 298 329 309 348 316 426 402 358 102 > barplot(table(years))



References

[1] Huse M. and Kuriyan J. The conformational plasticity of protein kinases. Cell, 2002.