

## Supplementary Material

### **Accession No. of Topo III from various organisms are presented below:**

XP\_001350185.1 (*P. falciparum*), XP\_001614250.1 (*P. vivax*), CEL68917.1 (*N. caninum*),  
XP\_955385.1 (*T. annulata*), XP\_019414796.1 (*L. angustifolius*), XP\_034423756.1 (*P. berghei* ANKA), Q13472.1 (*H. sapiens*), NP\_033436.1 (*M. musculus*), NP\_523602.2 (*D. melanogaster*),  
NP\_499558.1 (*C. elegans*), NP\_201197.1 (*A. thaliana*), C7J0A2.1 (*O. sativa*), NP\_013335.1 (*S. cerevisiae*), NP\_596761.1 (*S. pombe*), XP\_643754.2 (*D. discoideum*), NP\_416277.1 (*E. coli*),  
XP\_728858.2 (*P. yoelii*), XP\_016654744.1 (*P. chabaudi chabaudi*), XP\_001388262.1 (*C. parvum*),  
WP\_011011611.1 (*P. furiosus*), WP\_000197425.1 (*V. cholera*), XP\_668452.1 (*C. hominis*),  
NP\_001085699.1 (*X. laevis*), BAD99110.1 (*G. gallus*), XP\_027283074.1 (*C. griseus*), XP\_656880.1  
(*E. histolytica*), NP\_460264.1 (*S. enterica*), WP\_013366590.1 (*E. lignolyticus*), WP\_053396473.1 (*V. nereis*), XP\_003865450.1 (*L. donovani*), XP\_001611286.1 (*B. bovis*), CEL76485.1 (*T. gondii*) and  
XP\_688695.4 (*D. rerio*).

### **Accession No. of Topo IB from various organisms are presented below:**

XP\_001351663.1 (*P. falciparum*), NP\_003277.1 (*H. sapiens*), NP\_014637.1 (*S. cerevisiae*),  
XP\_034422310.1 (*P. berghei*), XP\_001613277.1 (*P. vivax*), XP\_725660.1 (*P. yeolii*), XP\_740287.2  
(*P. chabaudi chabaudi*), XP\_628499.1 (*C. parvum*), XP\_668245.1 (*C. hominis*), XP\_952523.1 (*T. annulata*), NP\_990441.1 (*G. gallus*), NP\_033434.2 (*M. musculus*), BAN65583.1 (*B. bovis*),  
XP\_002666448.2 (*D. rerio*), NP\_001084031.1 (*X. laevis*), NP\_001230963.1 (*C. griseus*),  
XP\_019413101.1 (*L. angustifolius*), NP\_200342.1 (*A. thaliana*), NP\_511161.2 (*D. melanogaster*),  
NP\_596209.1 (*S. pombe*), XP\_011393242.1 (*N. crassa*), XP\_003436707.1 (*A. gambiae*),  
AAL38667.1 (*L. donovani*) and EAZ58126.1 (*P. aeruginosa*).

### **Accession No. of Topo II from various organisms are presented below:**

NP\_001058.2 (*H. sapiens*), Q6PUA4 (*T. thermophila*), NP\_035753.2 (*M. musculus*),  
NP\_001296944.1 (*D. rerio*), NP\_990122.3 (*G. gallus*), NP\_001082502.1 (*X. laevis*),  
NP\_001233667.1 (*C. griseus*), AAR91745.1 (*E. histolytica*), AAB36610.1 (*S. cerevisiae*),  
NP\_595805.1 (*S. pombe*), Q7Z2D0 (*P. falciparum*), XP\_016655535.1 (*P. chabaudi chabaudi*),  
XP\_022813283.1 (*P. yoelii*), XP\_001616638.1 (*P. vivax*), XP\_034421913.1 (*P. berghei* ANKA),

XP\_625680.1 (*C. parvum*), XP\_665482.1 (*C. hominis*), XP\_953647.1 (*T. annulata*), NP\_496536.1 (*C. elegans*), P15348.1 (*D. melanogaster*), NP\_001037009.1 (*B. mori*), XP\_001611613.1 (*B. bovis*), KAF4639375.1 (*T. gondii*), BAA11510.1 (*D. discoideum*), NP\_189031.1 (*A. thaliana*) and AAD34021.1 (*L. donovani*).

**Accession No. of Gyrase subunit A from various organisms are presented below:**

NP\_416734.1 (*E. coli*), XP\_001350630.1 (*P. falciparum*), BAP02694.1 (*V. cholerae*), XP\_034424206.1 (*P. berghei* ANKA), XP\_001617321.1 (*P. vivax*), XP\_728165.3 (*P. yoelii*), XP\_740732.2 (*P. chabaudi* *chabaudi*), XP\_001609528.1 (*B. bovis*), CEL71871.1 (*T. gondii*), XP\_003880046.1 (*N. caninum*), Q7XZF7.2 (*O. sativa*), KOO03512.1 (*V. nereis*), AAS14848.1 (*D. melanogaster*), OAP05190.1 (*A. thaliana*), AAC23563.1 (*S. pneumoniae*), AAA83017.1 (*M. tuberculosis*), NP\_461214.1 (*S. enterica*), AAD07753.1 (*H. pylori*) and WP\_012855700.1 (*M. hominis*).

**Accession No. of Gyrase subunit B from various organisms are presented below:**

P0AES6.2 (*E. coli*), XP\_001350789.1 (*P. falciparum*), BAP04256.1 (*V. cholerae*), EDO07537.1 (*B. bovis*), CEL72064.1 (*T. gondii*), CEL64794.1 (*N. caninum*), XP\_015622284.1 (*O. sativa*), KOO04909.1 (*V. nereis*), AAS13867.1 (*D. melanogaster*), XP\_034424367.1 (*P. berghei* ANKA), XP\_001613931.1 (*P. vivax*), XP\_724272.1 (*P. yoelii*), XP\_744228.2 (*P. chabaudi* *chabaudi*), CAC05495.1 (*A. thaliana*), AAZ93044.1 (*S. pneumoniae*), AAA83016.1 (*M. tuberculosis*), NP\_462735.1 (*S. enterica*), AAD07566.1 (*H. pylori*) and WP\_012855650.1 (*M. hominis*).

**Accession No. of Topo VIB from various organisms are presented below:**

NP\_188714.2 (*A. thaliana*), J3QMY9.2 (*M. musculus*), XP\_001350366.1 (*P. falciparum*), NP\_001289013.1 (*H. sapiens*), WP\_011012725.1 (*P. furiosus*), VTZ69403.1 (*P. chabaudi* *chabaudi*), XP\_022812488.1 (*P. yoelii*), SCO67967.1 (*P. vivax*), XP\_034422620.1 (*P. berghei* ANKA), XP\_003543555.1 (*G. max*), B8BDQ4.1 (*O. sativa*), XP\_019457683.1 (*L. angustifolius*), XP\_005716538.1 (*C. crispus*), O05207.1 (*S. shibatae*), XP\_028862395.1 (*P. malariae*), XP\_003057307.1 (*M. pusilla*), XP\_002177352.1 (*P. tricornutum*), WP\_011034341.1 (*M. mazei*), MCC6040583.1 (*D. archaeon*), XP\_042753666.1 (*L. sativa*), ETV82550.1 (*A. astaci*) and BAM83247.1 (*C. merolae*).