

Supplementary Materials

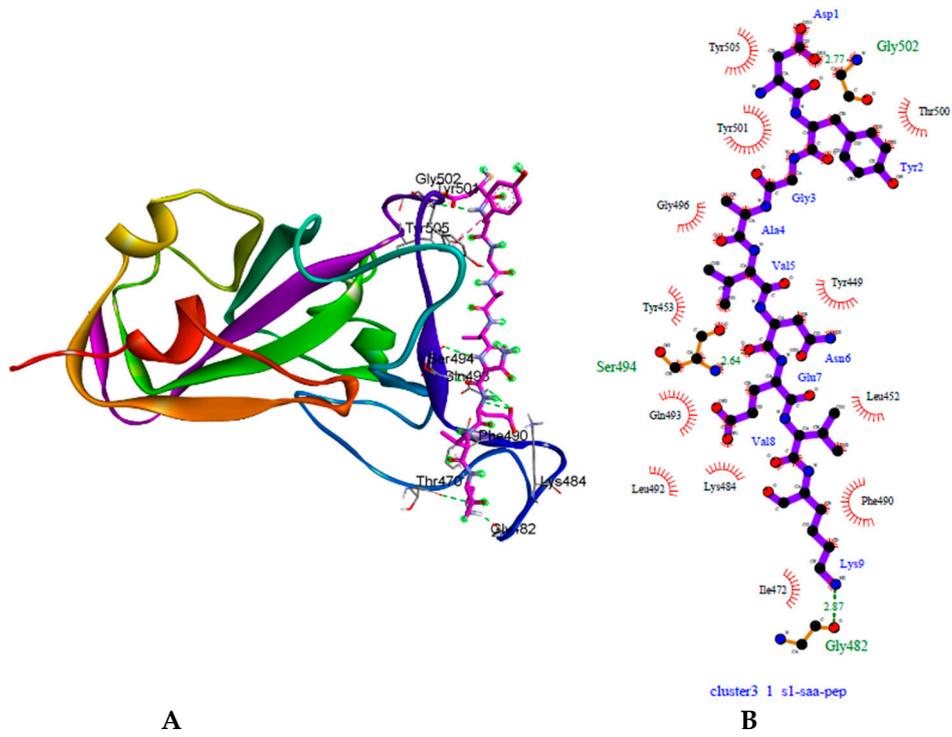


Figure S1. Sketch diagram depicting the 3D (A) and 2D (B) interaction between bromelain-derived peptide and RBD SA by LigPlot+. RBD SA contains the mutations K417N, E484 and N501Y.

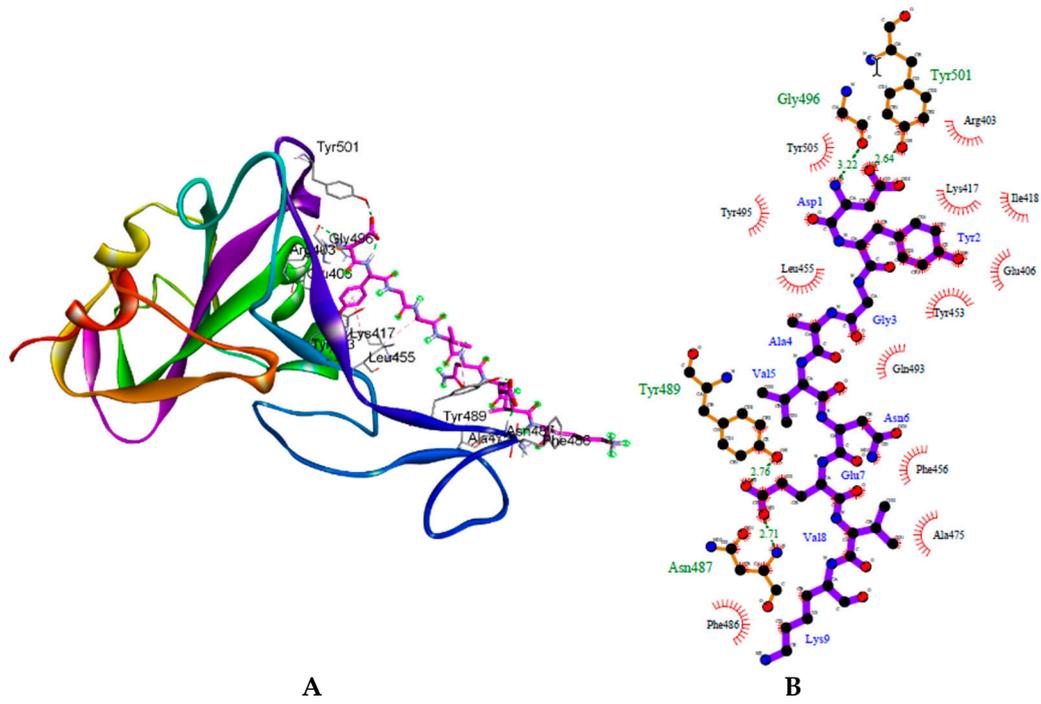


Figure S2. Sketch diagram depicting the 3D (A) and 2D (B) interaction between bromelain-derived peptide and RBD UK by LigPlot+. RBD UK contains the mutation N501Y.

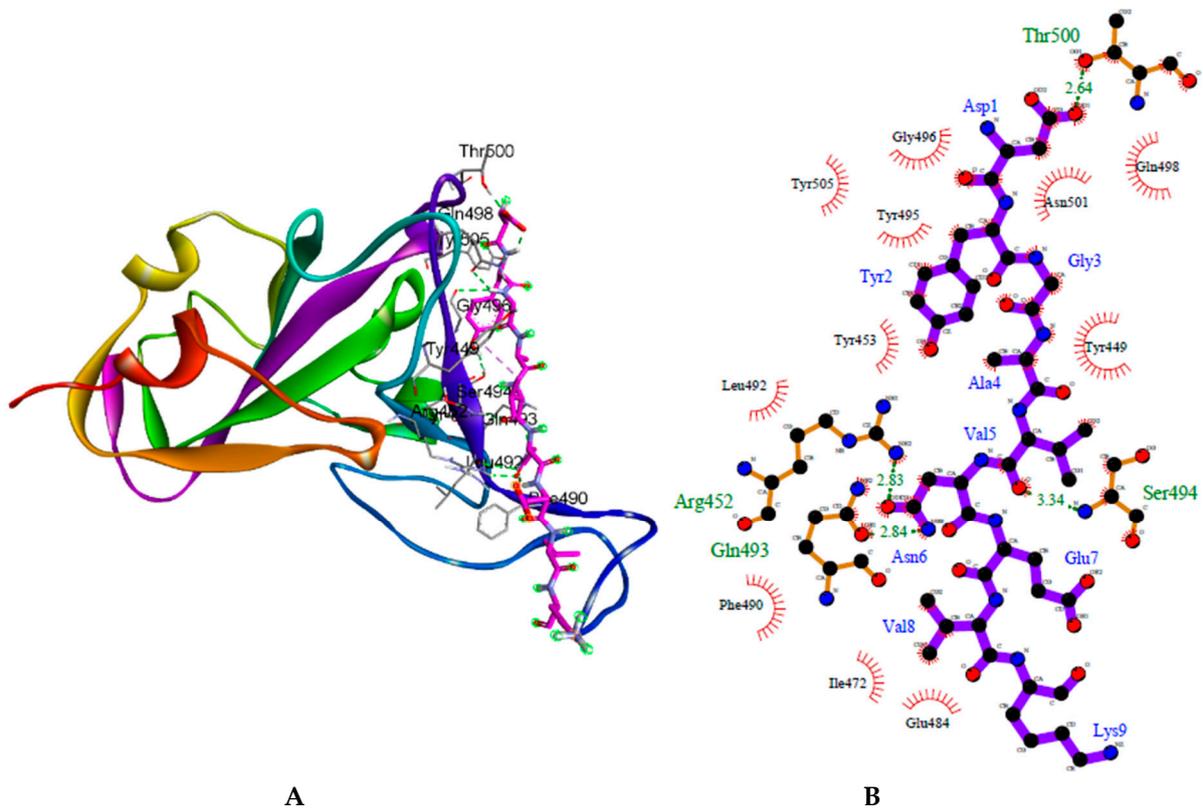


Figure S3. Sketch diagram depicting the 3D (A) and 2D (B) interaction between bromelain-derived peptide and RBD CA (US) by LigPlot+. RBD CA contains the mutation L452R.

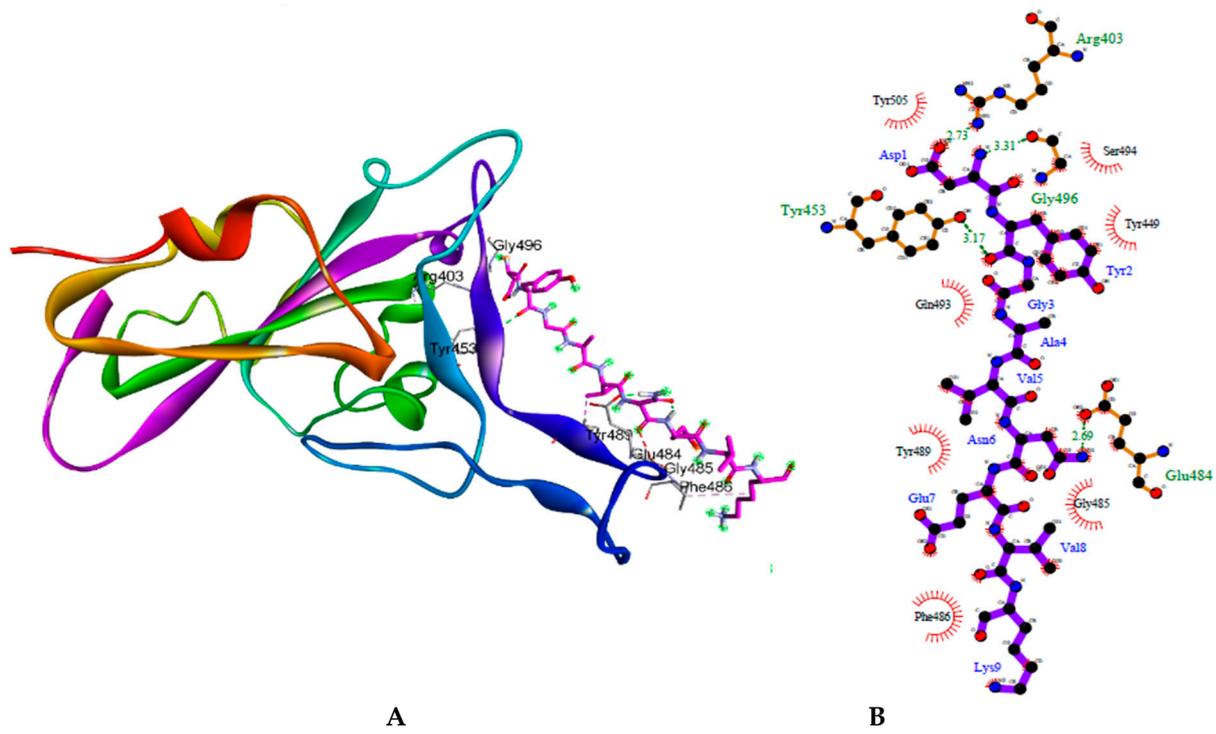


Figure S4. Sketch diagram depicting the 3D (A) and 2D (B) interaction between bromelain-derived peptide and RBD SG (NY1) by LigPlot+. RBD SG contains the mutation S477G.

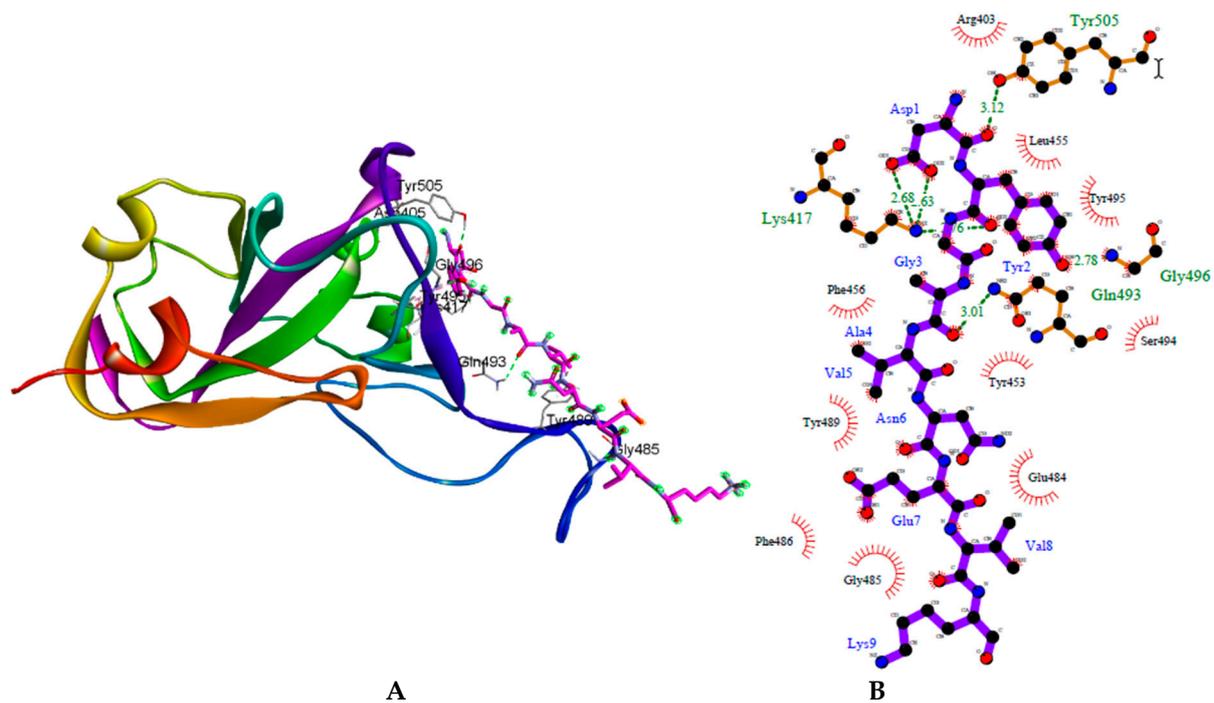


Figure S5. Sketch diagram depicting the 3D (A) and 2D (B) interaction between bromelain-derived peptide and RBD SN (NY2) by LigPlot+. RBD SN contains the mutation S477N.

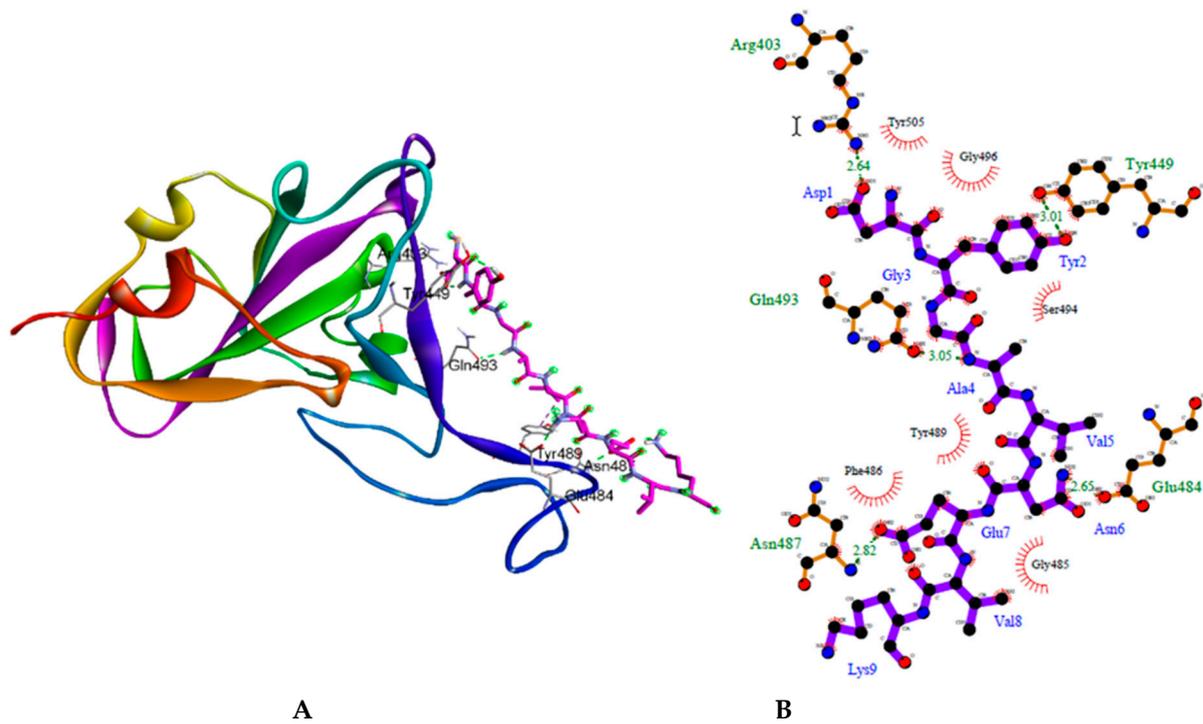


Figure S6. Sketch diagram depicting the 3D (A) and 2D (B) interaction between bromelain-derived peptide and RBD SC by LigPlot+. RBD SC contains the mutation N439K.

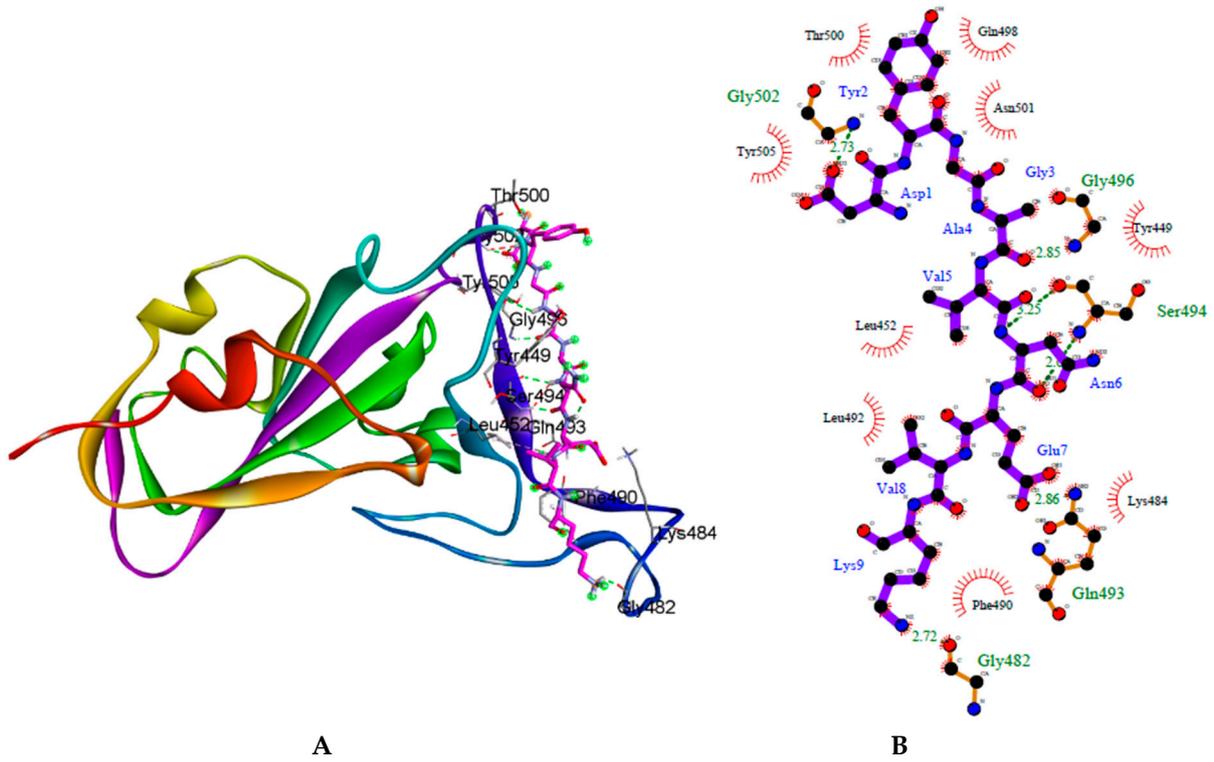


Figure S7. Sketch diagram depicting the 3D (A) and 2D (B) interaction between bromelain-derived peptide and RBD NG by LigPlot+. RBD NG contains the mutation E484K.

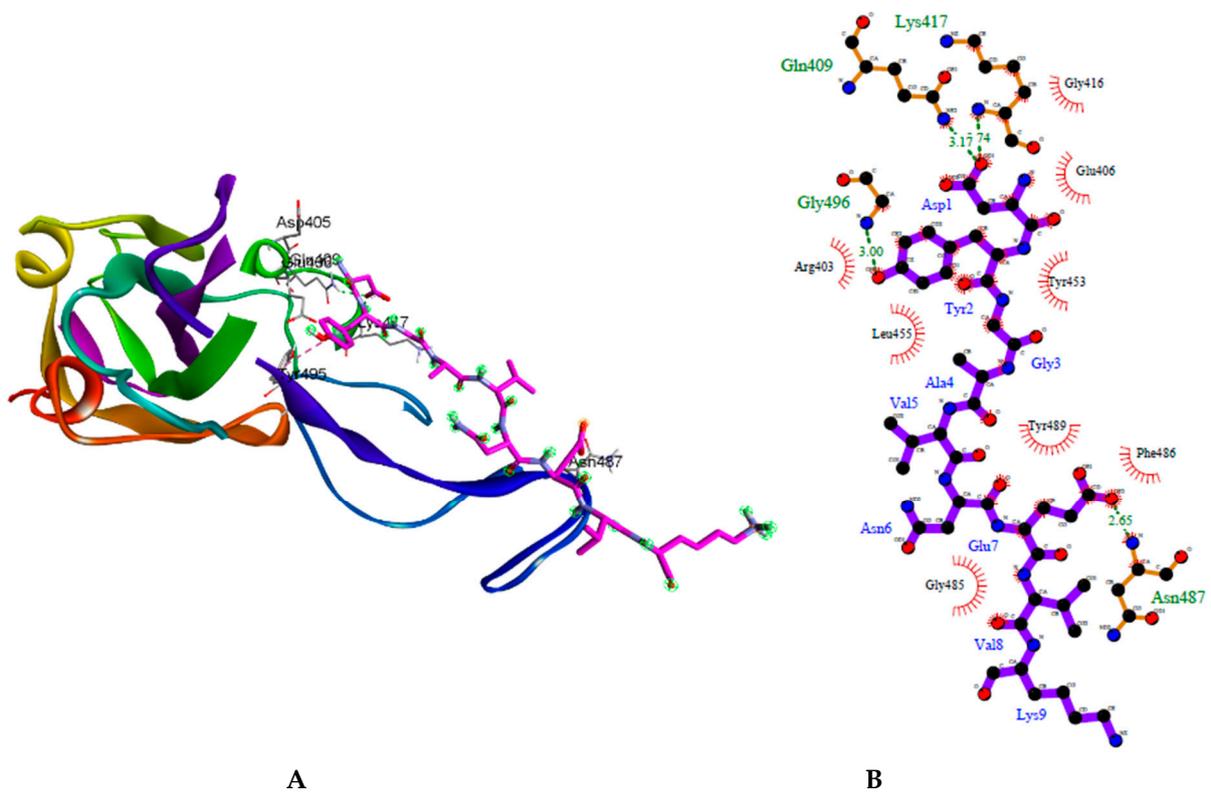


Figure S8. Sketch diagram depicting the 3D (A) and 2D (B) interaction between bromelain peptide and RBD IN by LigPlot+. RBD IN contains the mutations L452R and E484K.