

SUPPLEMENTARY FIGURE CAPTIONS

Figure S1. $\beta 5$ and $\beta 7$ conglutins structural analysis.

Three-dimensional structure of $\beta 5$ and $\beta 7$ conglutins (Uniprot accession number F5B8W3 and F5B8W5, respectively) showing the mobile arm and globular domains. The structures are depicted as a cartoon diagram integrated by α -helices, β -sheets, and coils (red, yellow, and green, respectively). Three-dimensional structure of (A) t $\beta 5$, (C) t $\beta 7$, (B) $\beta 5$, and (D) $\beta 7$ conglutins depicted in (B, D) cartoon and (C, E) surface.

Figure S2. β -conglutinin protein sequences analysis.

Alignment of the complete NLL conglutinin protein sequences $\beta 1$ to $\beta 7$ (A); Alignment of the globular domain of the NLL conglutinin protein sequences $\beta 1$ to $\beta 7$ (B); Comparative alignment of the NLL conglutinin protein sequences $\beta 5$, $\beta 7$, t $\beta 5$, and t $\beta 7$ (C); Comparative alignment of the mobile-arm domain of the NLL conglutinin protein sequences t $\beta 5$ and t $\beta 7$ (D).