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astroenteric disorders, including gastritis, peptic ulcer, and gastric cancer. The H. pylori genome needes a gene product TlyA that has been shown to display potent membrane damaging
roperties and cytotoxic activity. On the basis of such properties, TlyA is considered as a potential rulence factor of H. pylori. In this study, we show that the H. pylori TlyA protein has a strong ropensity to convert into the amyloid-like aggregated assemblies, upon exposure to elevated imperatures. Even at the physiological temperature of 37 °C, TlyA shows a strong amyloidogenic roperty. TlyA aggregates that are generated upon exposure at temperatures of ≥37 °C show rominent binding to dyes like thioflavin T and Nile Red. Transmission electron microscopy also remonstrates the presence of typical amyloid-like fibrils in the TlyA aggregates generated at 37 °C onversion of TlyA into the amyloid-like aggregates is found to be associated with major terations in the secondary and tertiary structural organization of the protein. Finally, our study nows that the preformed amyloid-like aggregates of TlyA are capable of exhibiting potent cytotoxic ctivities against human gastric adenocarcinoma cells. Altogether, such a propensity of H. pylori yA to convert into the amyloid-like aggregated assemblies with cytotoxic activity suggests of the protein.
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