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# Effect of Natural Biopolymers on Amyloid Fibril formation and Morphology

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## **Abstract**

Amyloid fibrils are associated with the pathogenesis of protein misfolding diseases such as Alzheimer's disease. These fibrils typically exhibit different morphologies when grown in vitro, and this has been known to affect their biological properties and cytotoxicity. The formation kinetics and resultant morphology of fibrils formed from the model proteins Bovine Insulin and Hen Egg White Lysozyme have been measured. We show that the presence of gum arabic and pectin during fibril formation cause the amyloid fibrils formed to associate into higher

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