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A SYSTEM FOR FABRICATING NUCLEIC ACID POLYOMINOES AND A METHOD THEREOF



▶ MORE INFORMATION

MEGA-TREND

- **Chemicals and Materials**

TECHNOLOGY READINESS LEVEL (TRL)

- **TRL 3**

PATENT/ GRANTED NUMBER

- **PI 2016702540**

▶ TECHNOLOGY OVERVIEW

A system for fabricating nucleic acid polyominoe and a method thereof are disclosed, according to some embodiments of a present invention. The system includes an input module for receiving inputs for nucleic acid sequences and type of configurations. A processing module generates an optimized set of nucleic acid sequences and shapes based on the inputs; and an output module outputs the fittest and optimized polyominoe structure. The polyominoe includes an elementary block including at least two DNA sequences. A number of the blocks assemble together into different heterogeneous shapes.

The shapes further merge into the target larger structure- polyominoe due to the self-organizing property of the DNA sequences and many sequences to many shapes configuration.

CONTACT US!

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