

Chain-Reactive Molecular Releasing System

BIOMOD2013 Team Sendai¹

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BIOMOD is a design competition where undergraduate students compete to master control of biomolecules on the nanometer scale [1]. Students execute projects during the summer and then gather in Boston in November to present their work and win awards.

This year, Team Sendai [2] aims at creating a novel chain-reactive molecular releasing system by using liposome as a container. In the proposed system, chain reactive collapse of liposomes will be triggered by absorption of DNA nanostructure onto the surface of liposome. By designing appropriate DNA-liposome interaction mechanism, we try to realize quantitative control of drug release over time.

[1] BIOMOD2013 Website

<http://biomod.net/>

[2] BIOMOD2013 Team Sendai Wiki

<http://openwetware.org/wiki/Biomod/2013/Sendai>