

# Stanford Graphbase A Platform For Combinatorial Computing The

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this thesis demonstrates a technology that enables pipetting free high throughput screening hts on a miniaturized platform eliminating the need for thousands of one by one pipetting and conventional liquid handling systems this platform enhances accessibility to hts and enables hts to be used in small to medium scale laboratories in addition it allows large scale combinatorial screening with a small number of valuable cells such as patients primary cancer cells this technique will have a high impact for widespread use of hts in the era of personalized medicine in this thesis the author firstly describes the need and concept of pipetting free hts platform it is realized by the one step pipetting and self assembly of encoded drug laden microparticles dlps on the microwells next the technical implementations required for the platform demonstration are described it includes preparation of encoded dlps plastic chip fabrication and realization of automated system lastly screening of sequential drug combinations using this platform is demonstrated this shows the potential of the proposed technology for various applications

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