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## Developing a New Platform for Synthetic Biology

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## Developing a New Platform for Synthetic Biology

Synthetic biology is a new field of science that combines aspects of engineering with biology. A major goal of synthetic biology is to modify and redesign microbes for useful purposes.

One synthetic biology method has recently been developed for advanced engineering. Using this method, it is possible to create heavily modified, and even 'synthetic', versions of microbes, which may allow us to add more useful functions to such microbes.

Currently, however, this method has only been developed for a small group of bacteria. These bacteria have limitations that restrict their widespread use. Through my research, I hope to extend this technology to a new species that does not suffer from these same limitations. If successful, my research will give rise to a superior synthetic biology platform for creating modified microbes.