

Detailed introduction of functional micro-modules

Herein, to gain a better understanding of microbial interaction mechanisms and optimized design of microbial ecosystems, thus achieving the desired engineering functions, we provide an ...

Minimization of macroscopic mass-produced devices toward their micro/nano-scale counterparts has recently attracted extensive attention, which has driven the development of new ...

We proposed a concept of microbial active functional module (mAFM), defined as a consortium constituted by a group of microbes possessing relatively high metabolic interactions via ...

A detailed description of each specific function from fabrication to implementation can be found in a paper by Ahmed et al. . Additionally, 3-D printing technology also has numerous other ...

With the in-depth study of functional materials, people can now explain the functional characteristics of individual inorganic and organic component materials, as well as the reasons for ...

Here we use microelectrode recordings in humans to examine functional connectivity and neuronal spiking responses in order to assess modularity in submillimeter scale networks.

Here, we discuss how such modules are formed and the experimental and theoretical approaches that can be used to investigate them, using examples from polynucleotide-protein interactions, vesicle ...

This paper summarizes the available DNA-based functional modules that can be used for biomolecular signal sensing and transformation, reviews the available designs and applications of ...

Our approach addresses this challenge by using measures of functional connectivity to first identify modules from LFP signals, and then independently examining spiking activity of neurons within those ...

A set of micro-modules was developed to supplement these students with scientific concepts that are deemed to be fundamental to the understanding of the classics. This paper reports the statistical ...

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