

Electronic receptor and its application to controlling biological processes (Technion)

code: MED-0706

The present invention aims at gaining electrical control over biological processes, namely, triggering or suppressing a selected biological pathway by an electronic signal presented to the system. The strategy relies on the selection of antibodies that recognize and bind a specific set of nano-scale electrodes biased to a certain voltage configuration. The implications of such an interface are far reaching. One may envision sensors that probe several biological parameters, converting them into electronic signals.

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