ABSTRACT

HYBRID NANOPORE SENSORS

In one aspect, a detection apparatus comprises a solid support with an array of solid-state nanopores and a plurality of lipid nanodiscs with protein nanopores, wherein the lipid nanodiscs are disposed on the solid support such that they form seals at the solid-state nanopores. In another aspect, a detection apparatus comprises one or more nanopores that are surrounded by a membrane, wherein each nanopore is tethered to an electrode.

Figure 2A