

NANOPROBE: Gated sensing materials and devices for the detection of infectious diseases and urological cancer

ADRESSED PATHOLOGY:

Infectious disease and cancer

GENERAL OBJECTIVE:

Combating infectious diseases and cancer are challenging objectives for the World Health Organization, and novel systems for detection and diagnostic are needed in both cases to provide the more appropriated therapy on the early stages of the disease. The NANOPROBE project proposes the development of two innovative strategies i) for the precise and rapid detection of selected pathogens using gated materials and advanced signaling methods, and ii) for the identification and stratification of urological cancer patients by the development of "holistic" sensors using non-invasive techniques applied in urine samples.

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