

Novel Biosensors for early Cancer Detection

Development of gold nanoparticle and CRISPR-Cas assays
for the optical detection of cancer biomarkers in urine



Jeanne Elisabeth van Dongen

“Everybody is a genius. But if you judge a fish by its ability to climb a tree, it will live its whole life believing that it is stupid.”

- Albert Einstein

NOVEL BIOSENSORS FOR EARLY CANCER DETECTION

DEVELOPMENT OF GOLD NANOPARTICLE AND CRISPR/CAS
ASSAYS FOR THE OPTICAL DETECTION OF
CANCER BIOMARKERS IN URINE

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by

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