Biomolecular Detection Using Pyrene-Functionalized Graphene

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Research Target

Development of biosensor which helps early diagnosis of cancer by quantifying cancer biomarker.

Development of Manufacturing Process


Experimental Results


Conclusion

● Development of graphene biosensor for cancer diagnosis
  - Real-time performance
  - Direct conversion of biological signals into electrical signals
  - Signal transmission reduction

● Development of portable device
  - Biosensors detect biomolecules at anytime and anywhere just like a mobile phone.