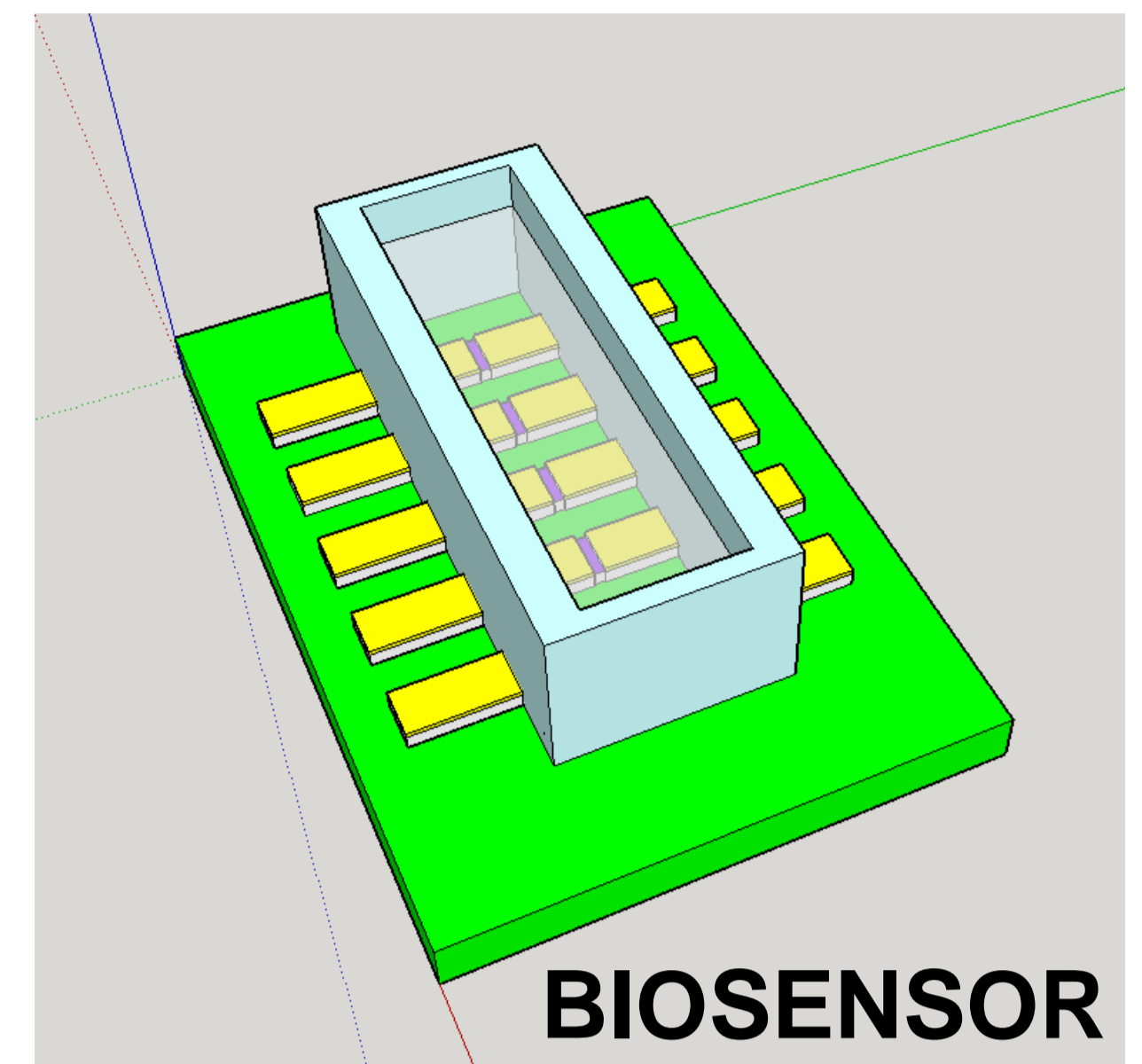
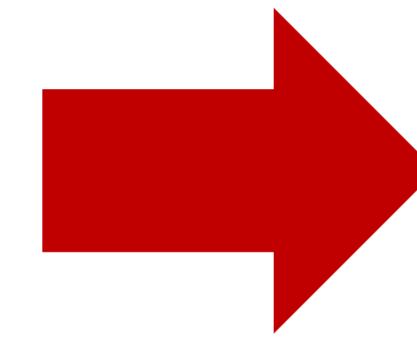
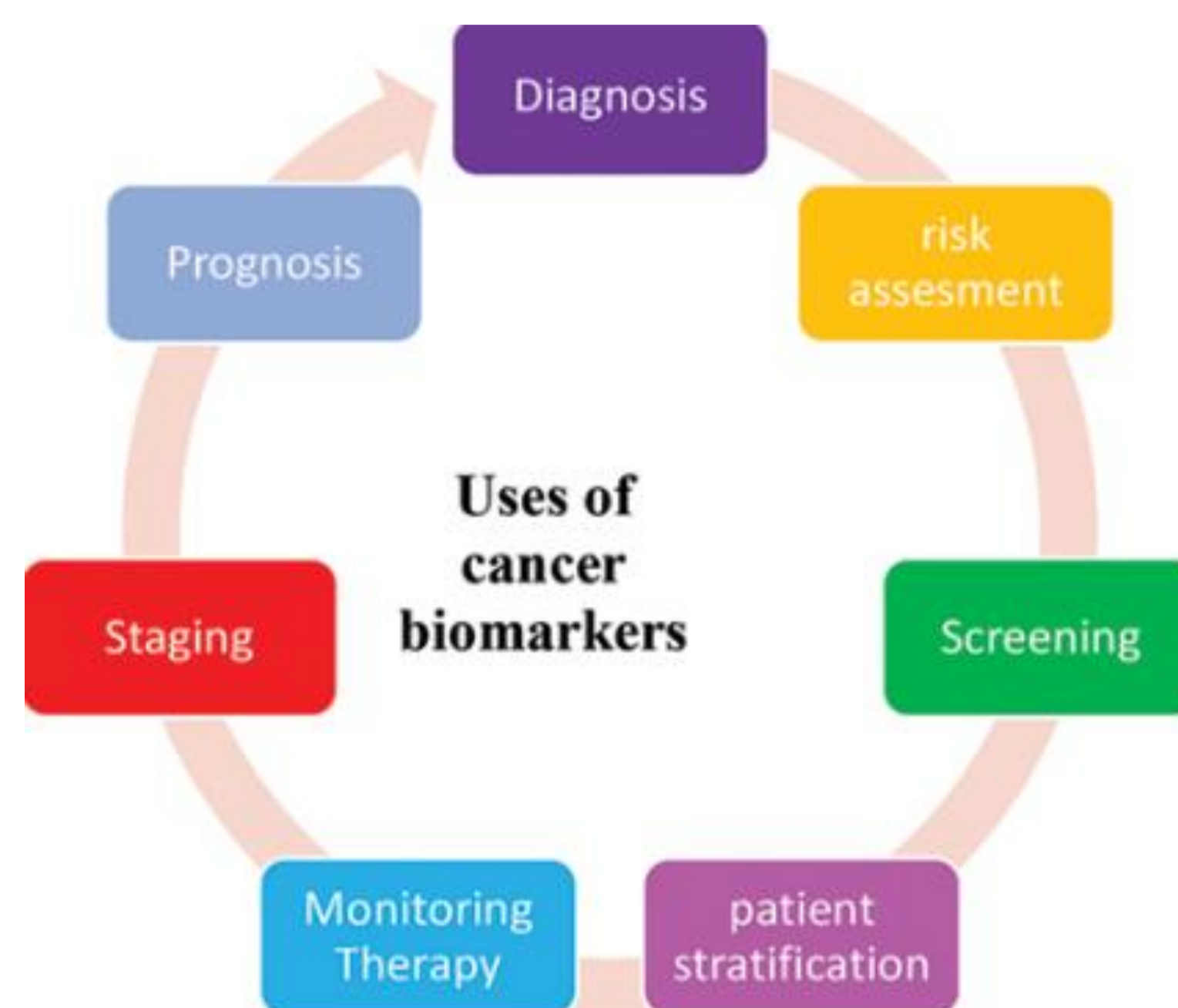
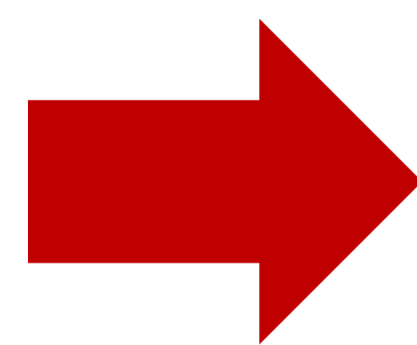
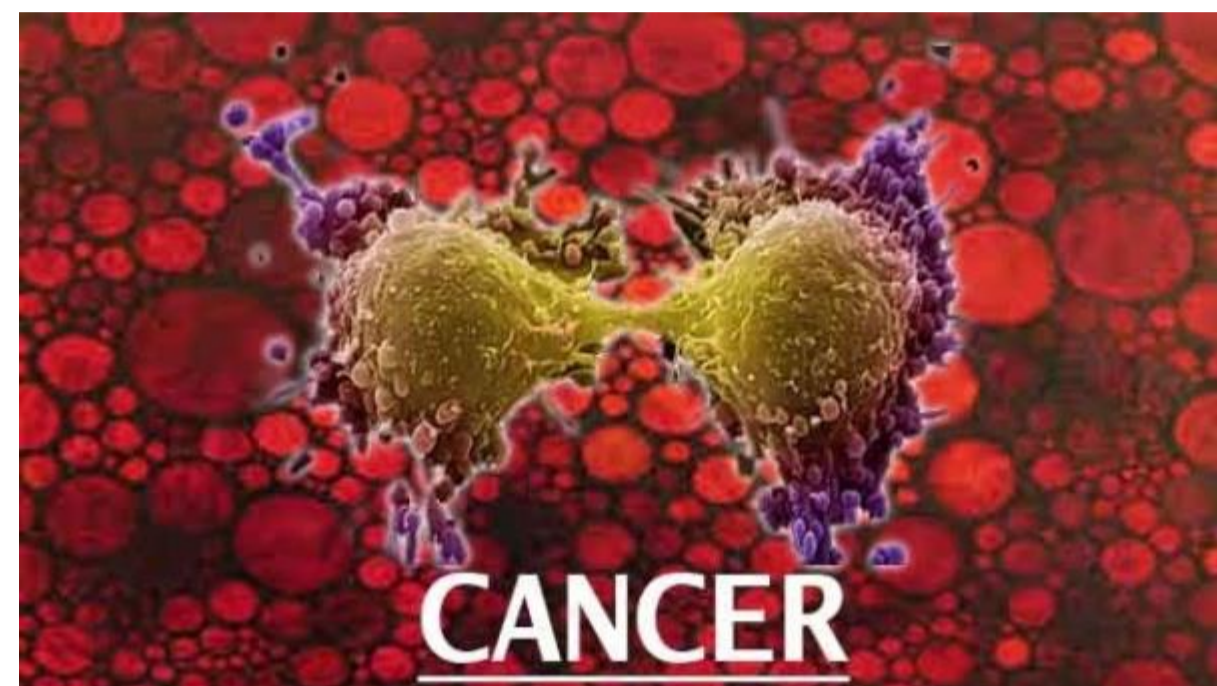




Research Target

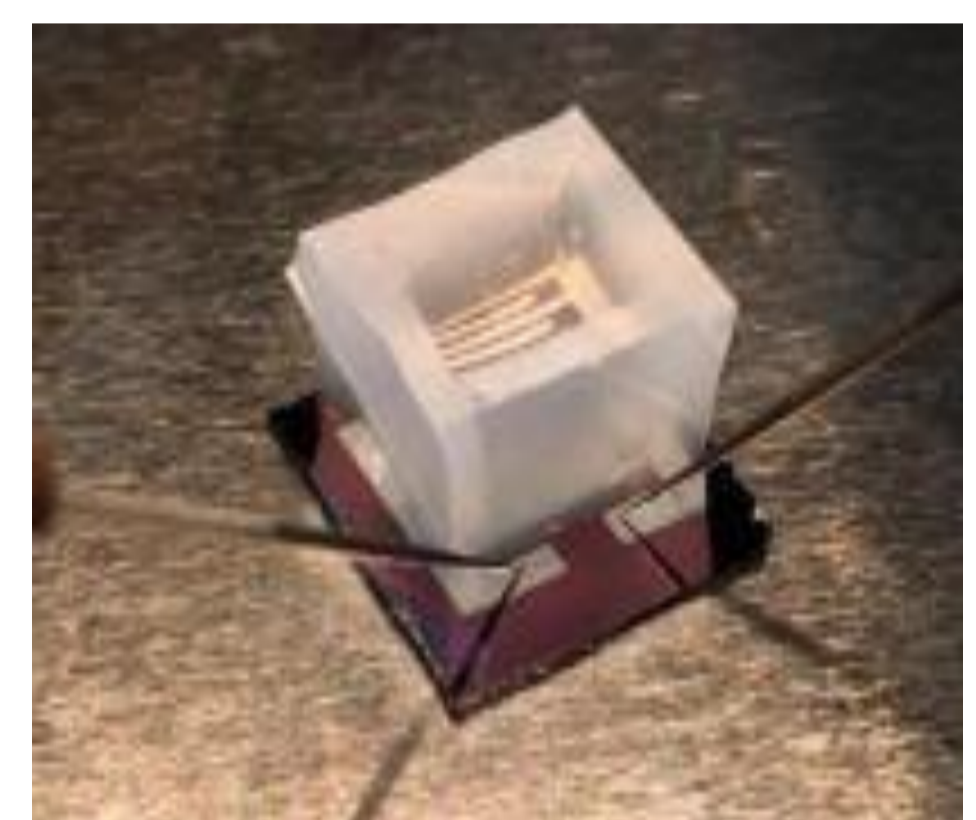
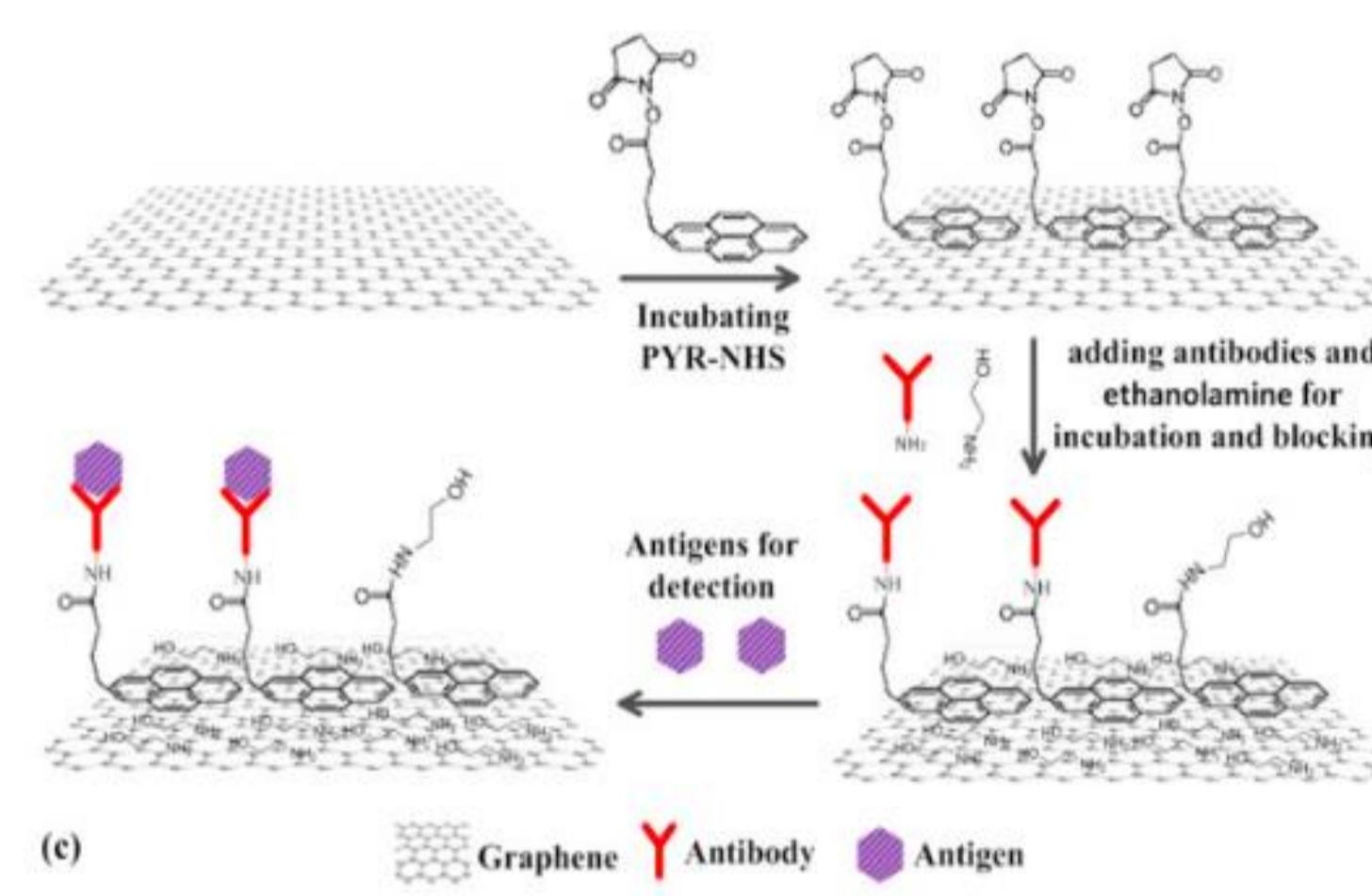
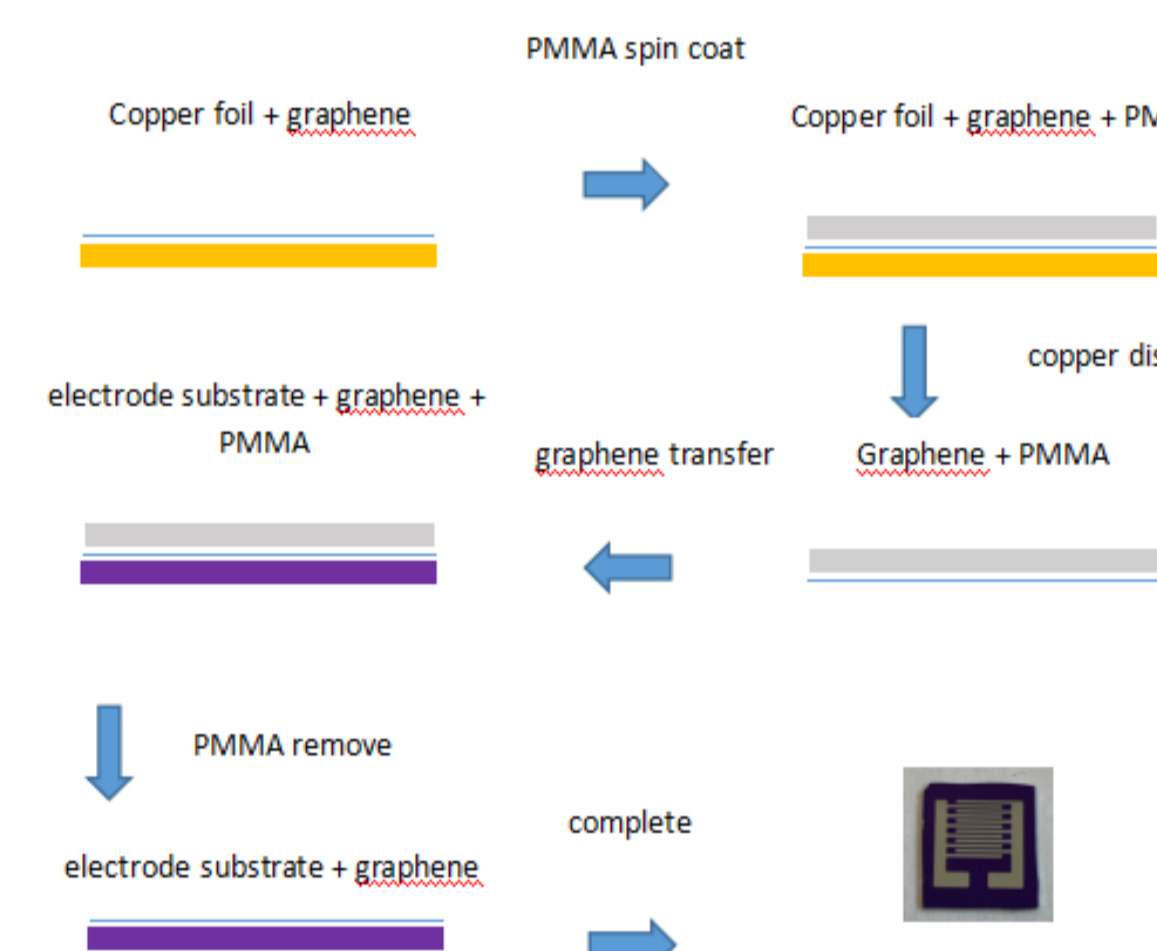
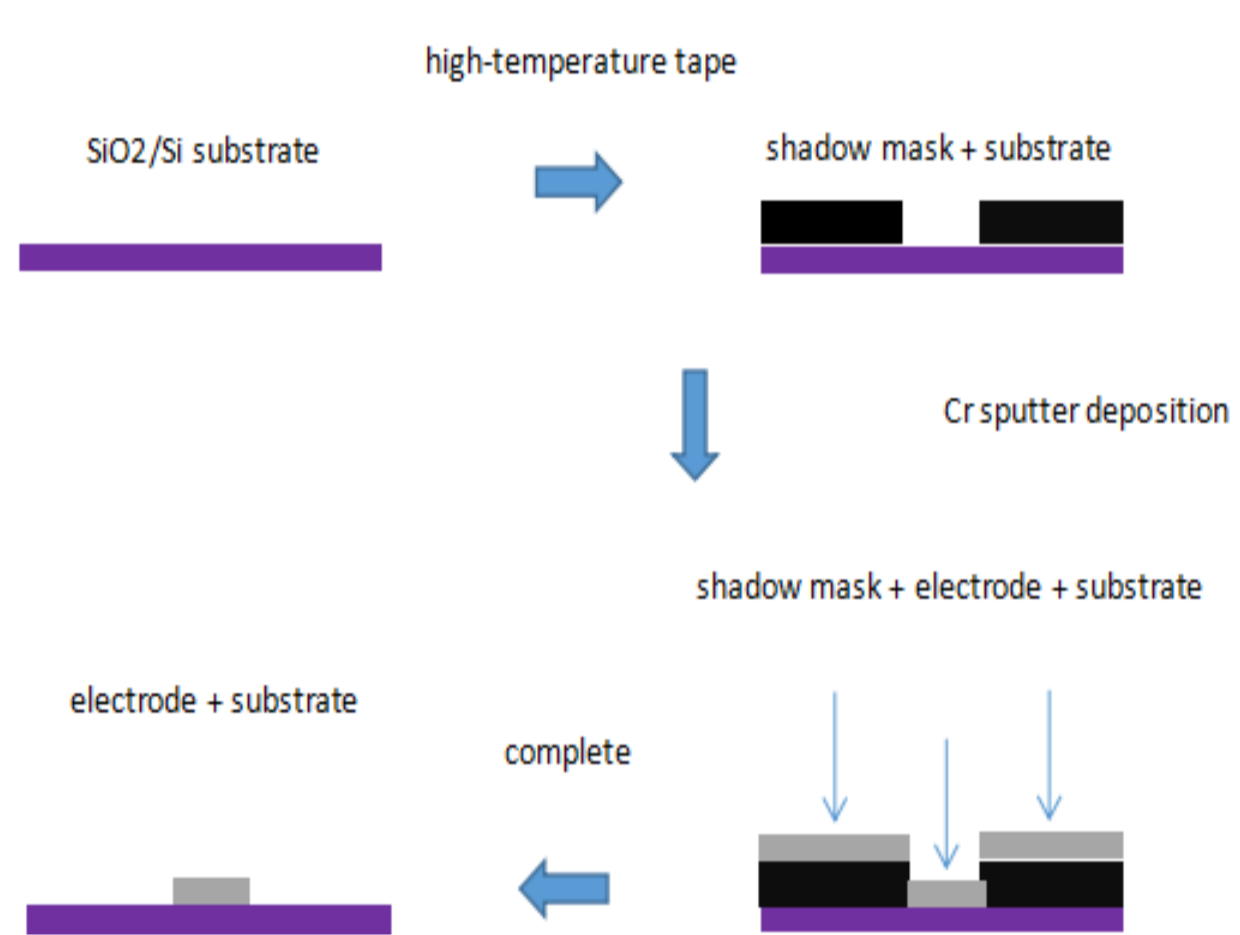
● Biosensor development

- Early diagnosis of cancer
- Cancer biomarker quantification



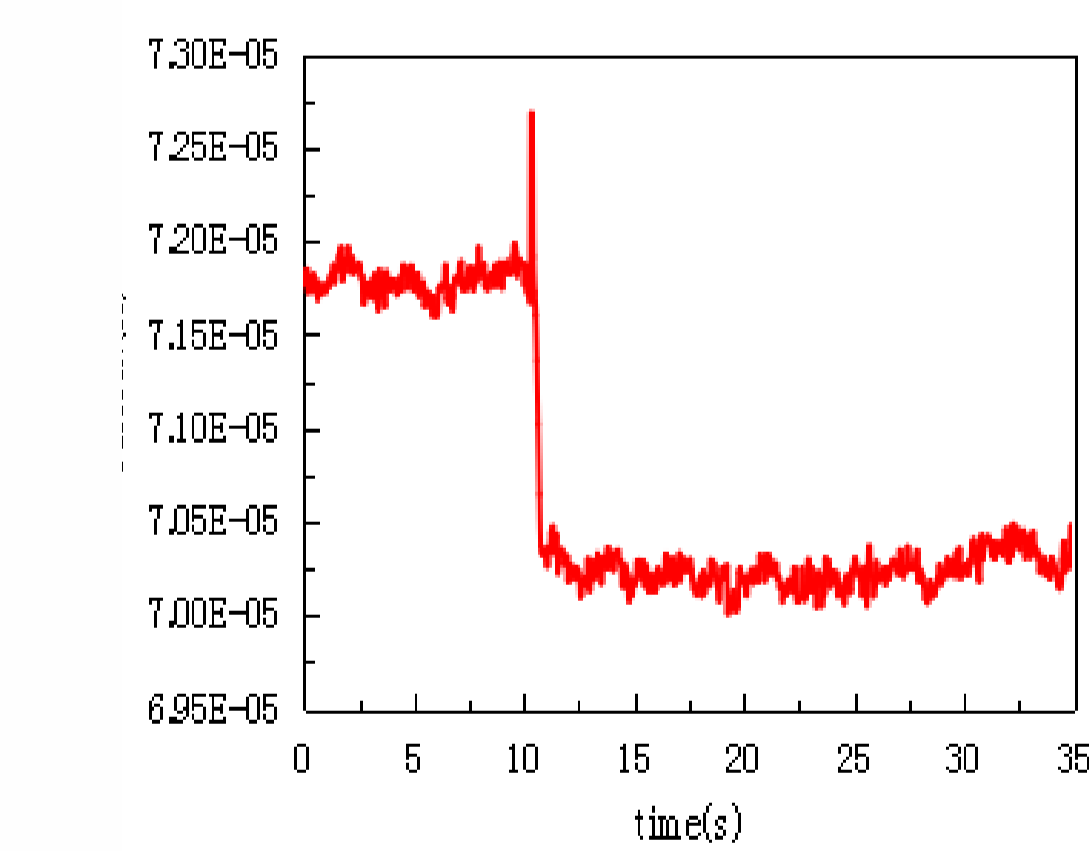
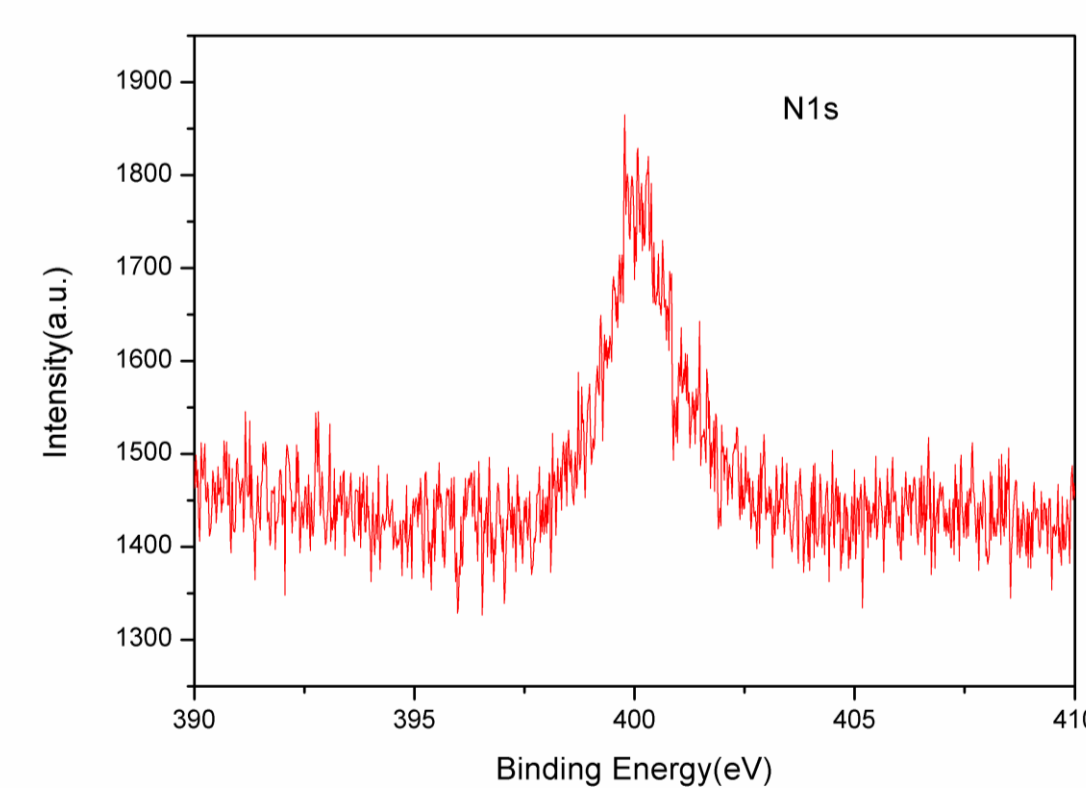
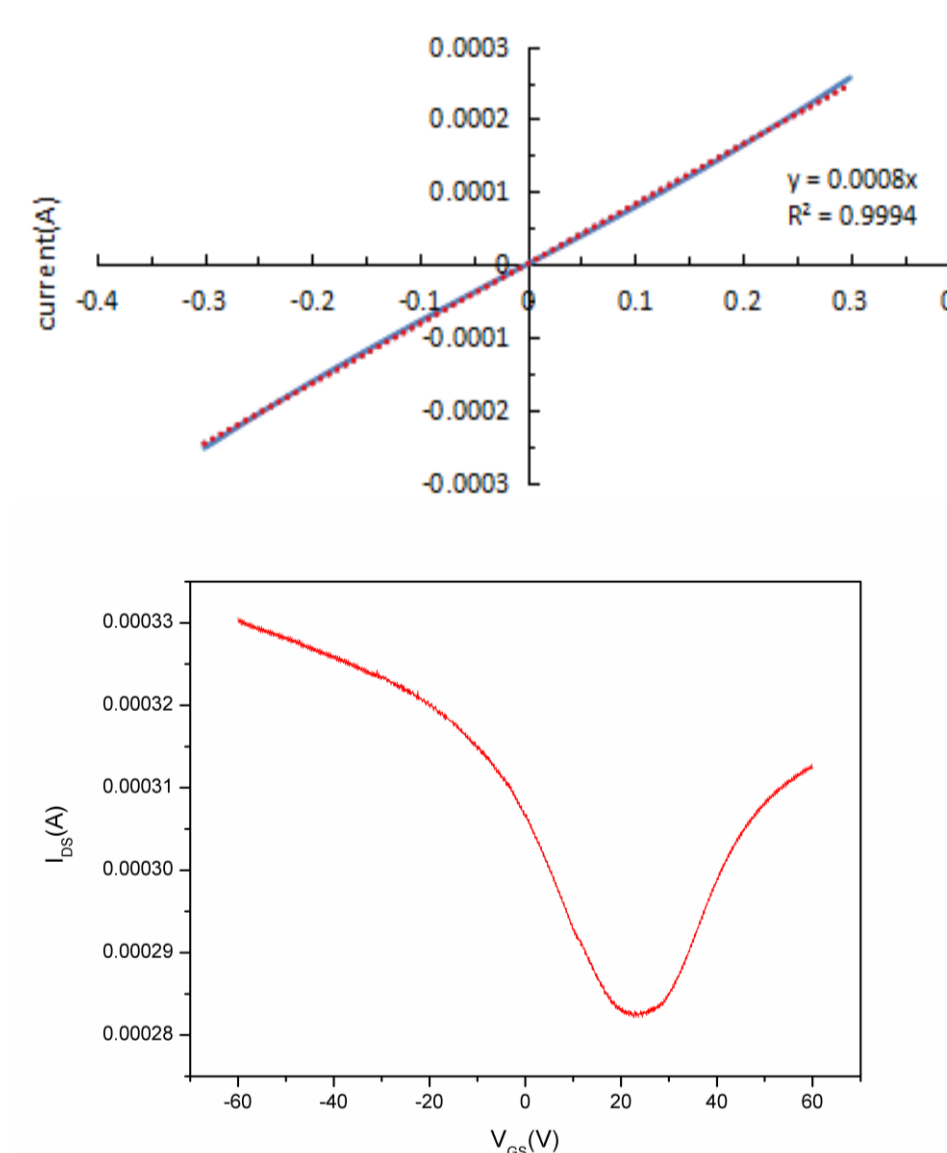
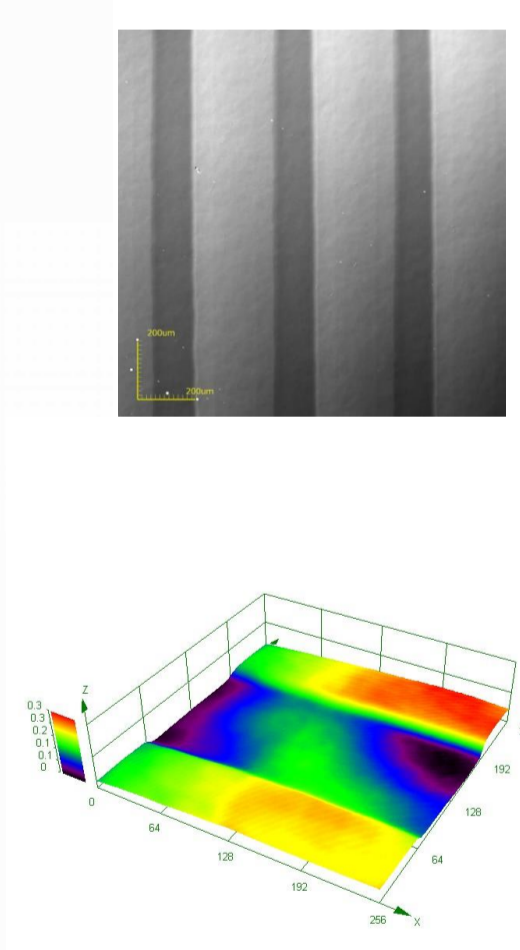
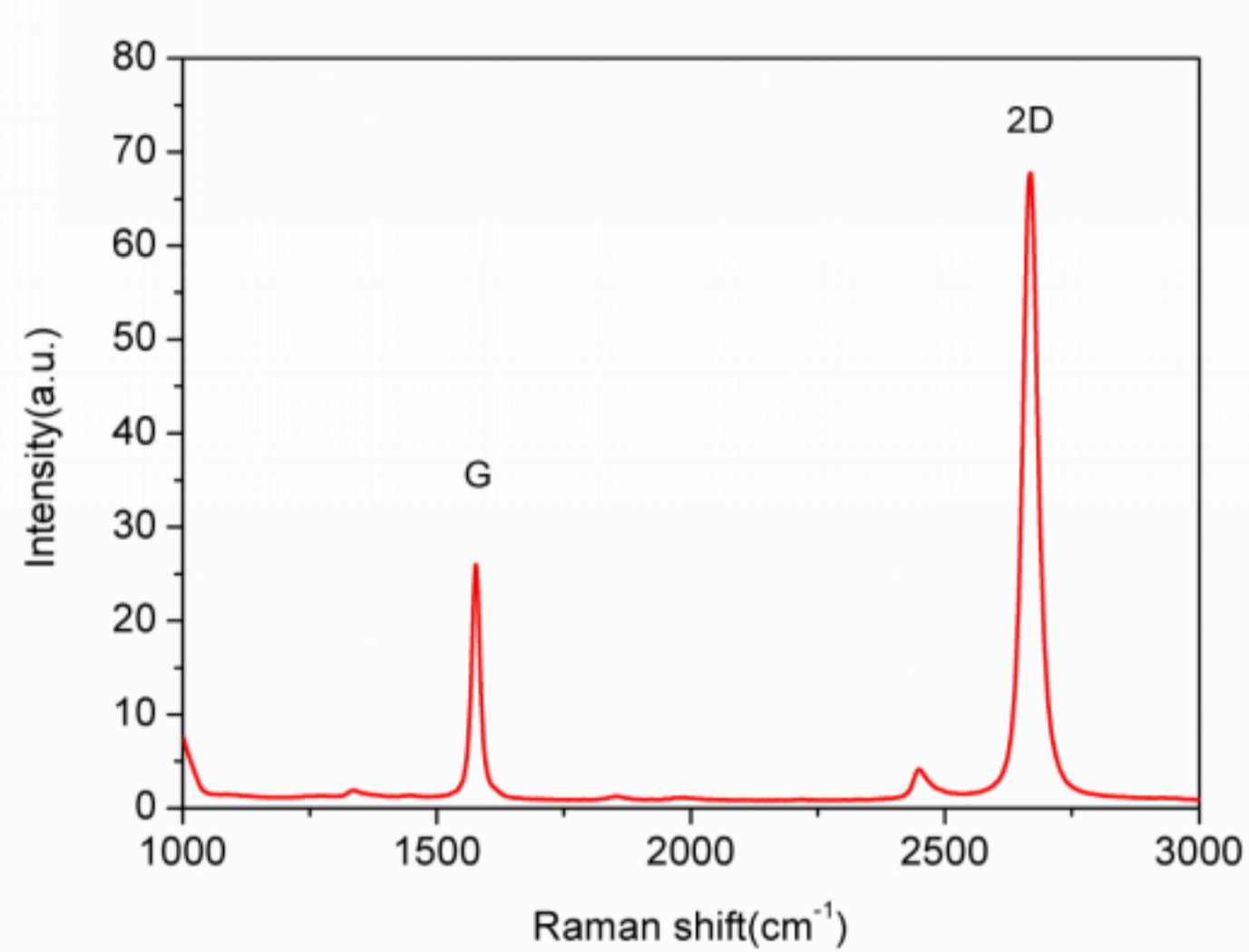
Development of Manufacturing Process

1. Electrode Processing
2. Graphene Transfer
3. Chemical Modification
4. Biological Modification
5. Portable Device Development and Testing



Experimental Results

1. Graphene Raman
2. Electrode image
3. Graphene Biosensor IV Character
4. XPS spectrum After Modification
5. Protein Absorption Real-time Testing



5.LINKER NMR

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.