

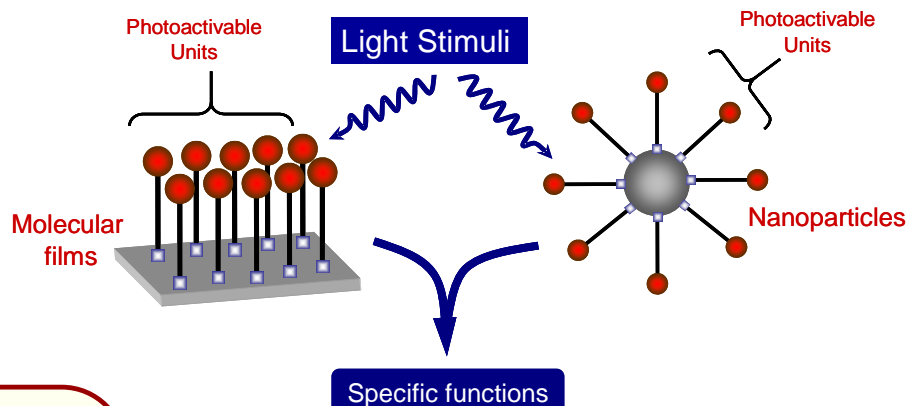
Intelligent Materials Powered by Light for Biomedical Applications

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Research Goal

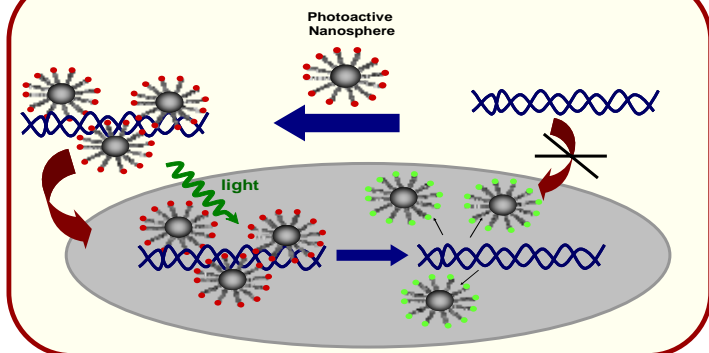
Design and fabrication of new nano-materials able to perform specific functions, of interest in the biomedical field, under the exclusive control of light inputs



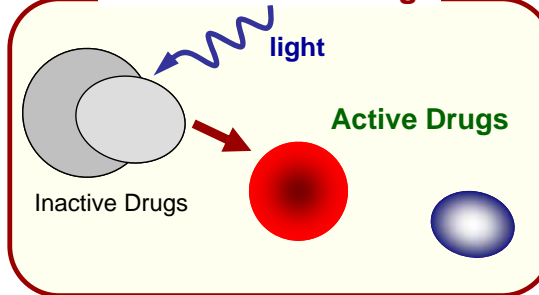
Why using light ?

- Exclusive spatiotemporal control of the specific functions
- No affecting physiological parameters such as pH, ionic strength, temperature
- Readily available
- Environmentally friendly
- Fast rate of the controlling event

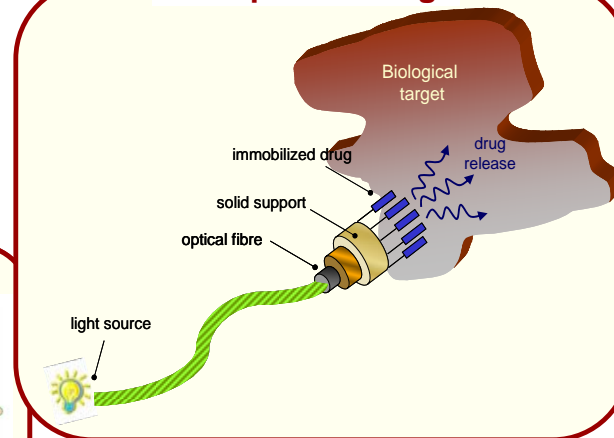
Gene Therapy



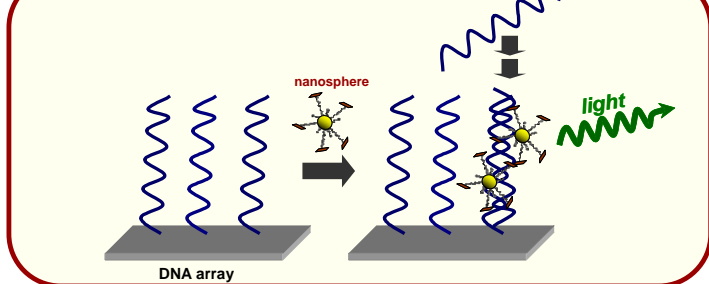
Multifunctional Drugs



Sito-Specific Drugs



Nucleic Acids Detection



Drug Carriers

