

Title

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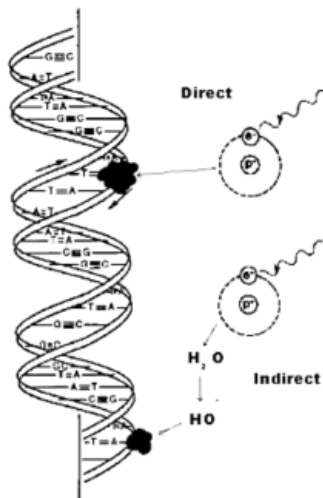
Introduction

Synthesis GNP

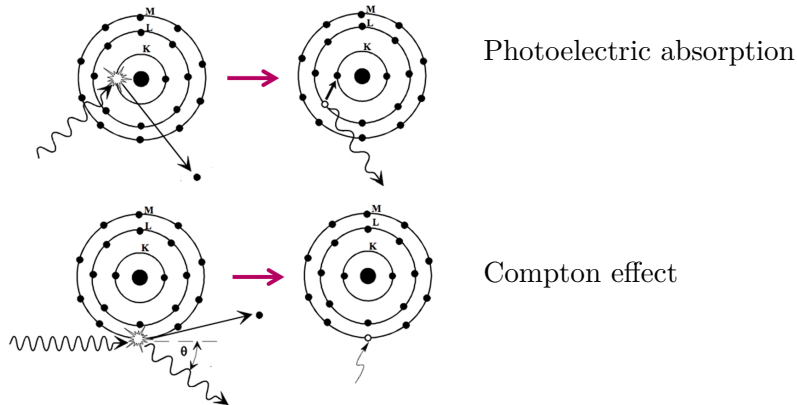
Chemical protocol

Cancer treatment

- Chemotherapy
- Surgery
- **Radiation therapy**



Radiosensitization with GNPs



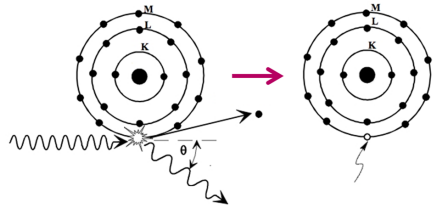
Why gold?

High atomic number (79)

Bio compatible

Goal

1. Synthesis
2. Characterization
3. Radiosensitization



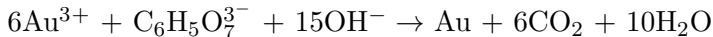
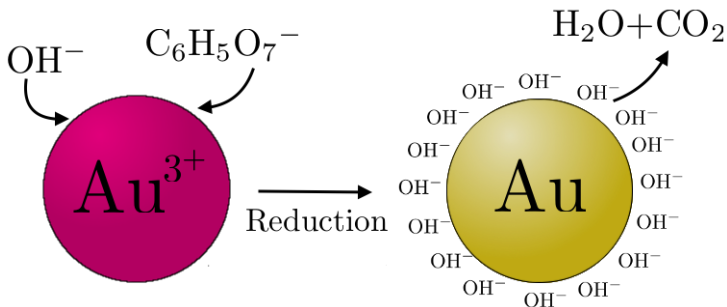
Chemical protocol



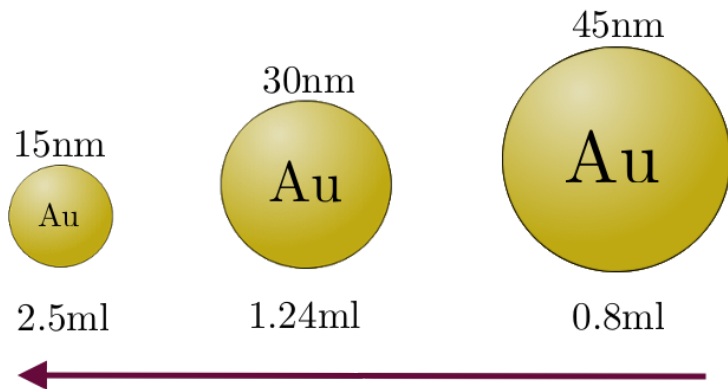
Gold ions: HAuCl_4 solution

Reducing agent: $\text{Na}_3\text{C}_6\text{H}_5\text{O}_7$

Chemical protocol



Size GNP



Citrate 1%
100ml HAuCl₄ 0.01%

Referenties



(2012) The effects of size and synthesis methods of gold nanoparticle-conjugated M̂sHIgG4 for use in an immunochromatographic strip test to detect brugian filariasis
S. R. Makhsin, K. A. Razak, R. Noordin, N. D. Zakaria and T. S. Chun, 2012 November 19
Universiti Sains Malaysia