

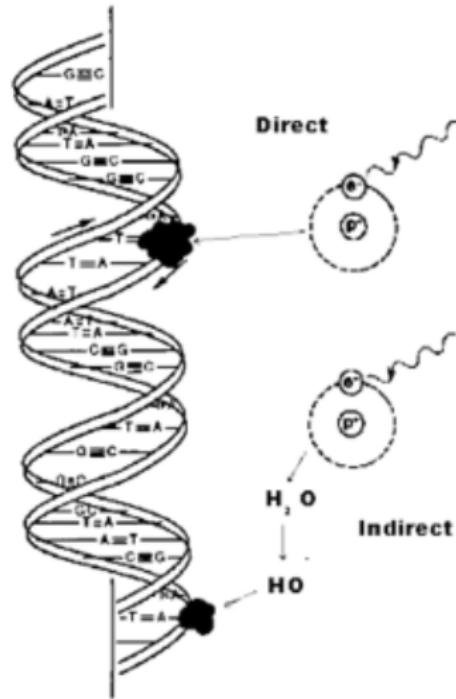
Title

L. Deceuninck
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Verhoeven

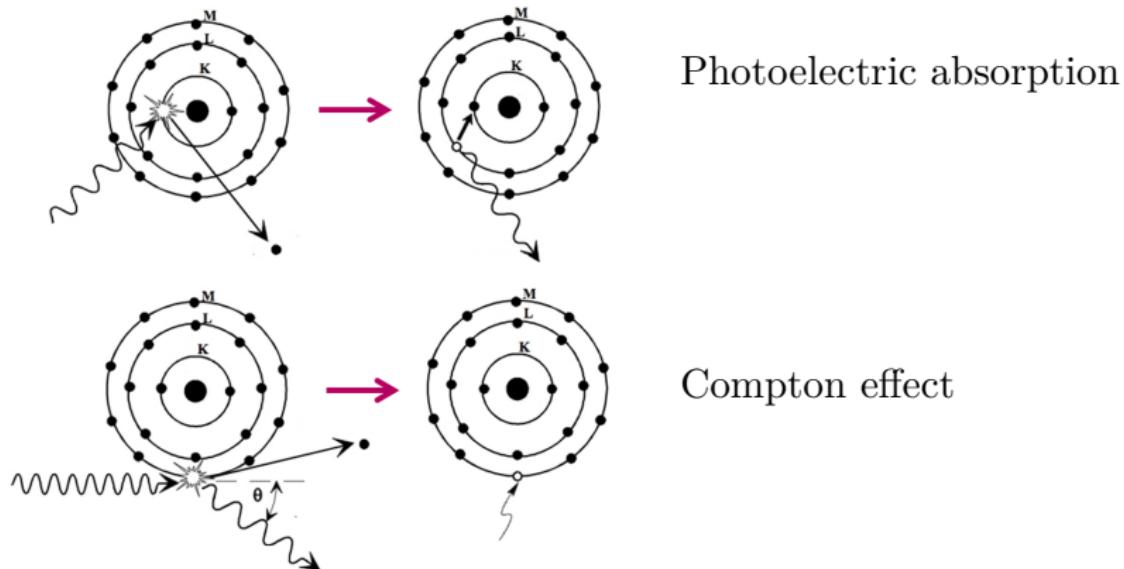
Introduction Synthesis GNP Chemical protocol

Cancer treatment

- Chemotherapy
- Surgery
- **Radiation therapy**



Radiosensitization with GNPs



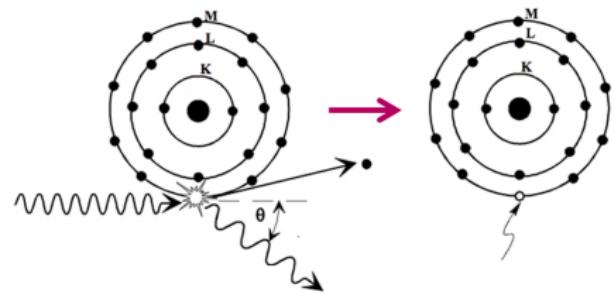
Why gold?

High atomic number (79)

Bio compatible

Goal

1. Synthesis
2. Characterization
3. Radiosensitization



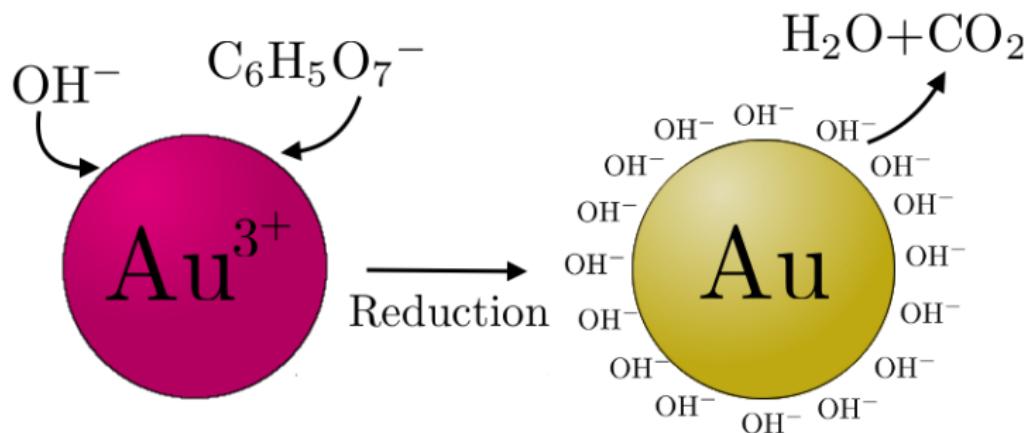
Chemical protocol



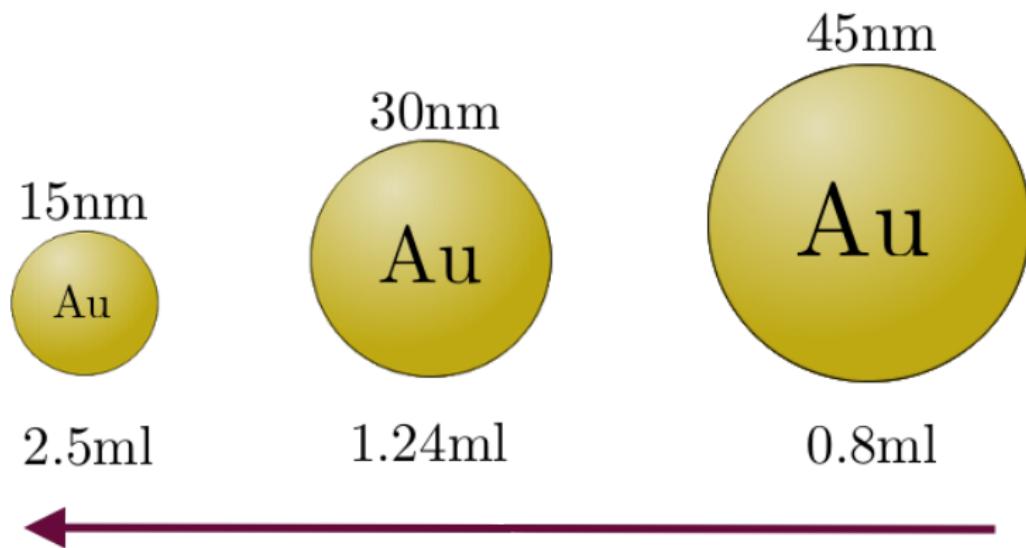
Gold ions: HAuCl₄ solution

Reducing agent: Na₃C₆H₅O₇

Chemical protocol



Size GNP



Citrate 1%
100ml HAuCl₄ 0.01%

Referenties

- (2012) The effects of size and synthesis methods of gold nanoparticle-conjugated MÎšHIgG4 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