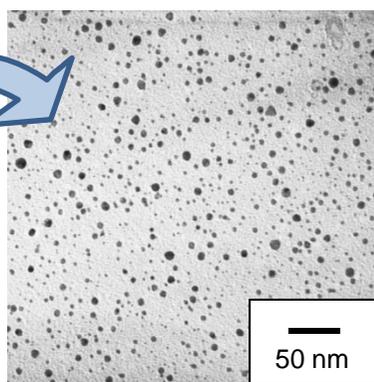
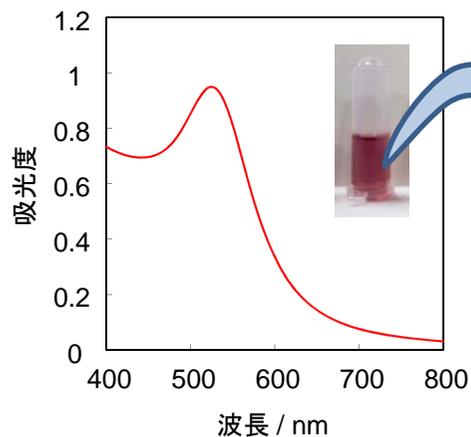
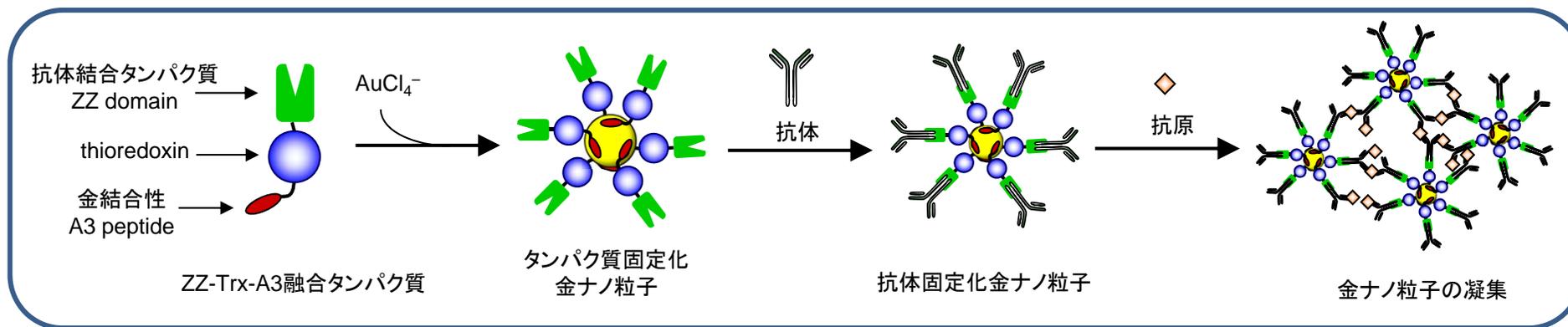


抗体固定化金ナノ粒子の合成と免疫アッセイへの応用



One-pot

金ナノ粒子の合成
タンパク質の固定化

Analystのback coverを飾りました

Big fabrication of gold nanoparticles
Protein immobilization on gold nanoparticles

One-pot biofabrication of gold nanoparticle-protein conjugates

Aggregation immunoassay

Antibody-derivatized gold nanoparticles

Showcasing research into biofabrication of protein-decorated gold nanoparticles from the Green Chemistry Laboratory of Dr Kojiro Shimojo at the Japan Atomic Energy Agency (JAEA).

Title: Facile, rapid and efficient biofabrication of gold nanoparticles decorated with functional proteins

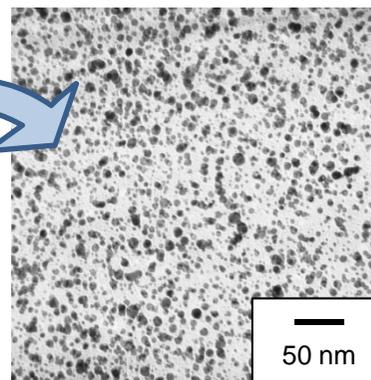
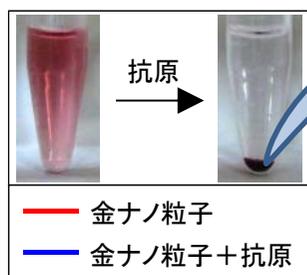
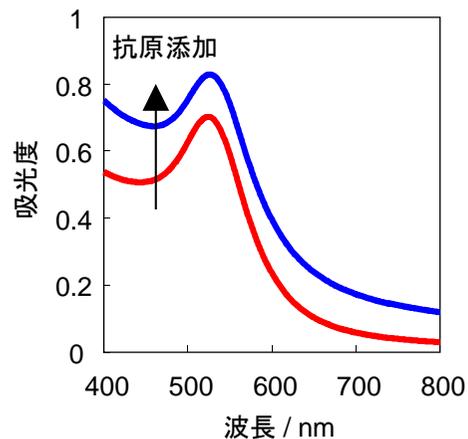
One-pot biofabrication of gold nanoparticle/AuNP-ZZ domain conjugates was developed using peptide-functionalized proteins, and immuno-AuNPs were readily prepared by specific binding of antibodies to the ZZ domain decorating AuNPs.

See Kojiro Shimojo et al., Analyst, 2012, 137, 2300-2303.

As featured in:
Analyst

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K. Shimojo et al. *Analyst*, **137**, 2300-2303 (2012).
T. Niide et al. *Langmuir*, **29**, 15596-15605 (2013).