

MaMaSELF



Contribution ID: 26

Type: **Student contribution**

Immobilisation of Gold nanoparticles by selected antiHCC antibodies - preliminary studies

The noble metal nanoparticles have been intensively studied for a long time. The photonic properties of gold or silver particles are appealing for materials applications. For example gold nanoparticles offer a wide spectrum of applications in biomedicine. When it is used for biomedicine, there is a crucial issue which is their cytotoxicity. It depends on various factors, including morphology. Because nanoparticles have an effect on cell membrane integrity, due to their different geometries as well as physical and chemical interactions with cell membranes.

We focused on the development modification of gold nanoparticles (GNP) using selective antibodies. Gold the immobilization process of GNP (size range 10-40 nm) is carried out through the click-chemistry method. The immobilized GNP systems characterized by using microscopic methods (AFM, TEM) and by interaction with the target protein - HCC.

Primary author: ICHIBA, Kaito

Session Classification: Student session

Track Classification: Student contribution