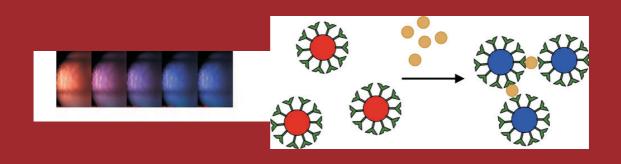


IZI

FRAUNHOFER-INSTITUT FOR CELL THERAPY AND IMMUNOLOGY IZI-BB BRANCH BIOANALYTICS AND BIOPROCESSES





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Agglomeration assay for the rapid on-site-detection

Sudden deviations from normal hinder us again and again in daily life. Often it is then desirable to obtain rapid information on confounding factors in order to confirm or refute suspicions and thus respond promptly. A visual check, read over the phone, can help with the first information here.

Based on the principle of the immunoassay, specific binding reactions in solution are initiated and then visualized by the formation of defined agglomerates. The cross-linking and thus the presence of the event is evidenced by a shift of the absorption spectrum - a color change e.g. from red to blue, which is to be detected with the help of a smartphone camera. These assays work particularly well in the competitive format and can be made accessible through other selection procedures.

We offer:

- •Production of assay specific gold nanoparticles of different sizes (Fig coated particles
- •Development of agglomeration assay based on gold nanoparticles with easy-touse and cost-effective evaluation via smartphone

