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Title: Rapid *in situ* biosynthesis of gold nanoparticles in living platelets for multimodal biomedical imaging

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Rapid *in situ* biosynthesis of gold nanoparticles in living platelets for multimodal biomedical imaging

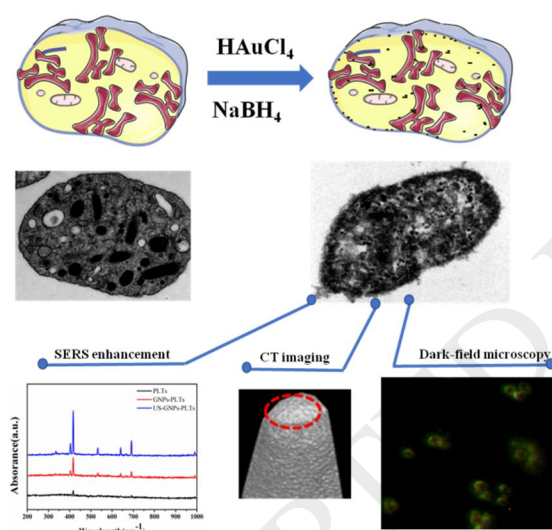
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Graphic Abstract



Highlights

- The gold nanoparticles have been *in situ* biosynthesized in the living platelets.
- Such gold nanoparticles engineered platelets remain the natural bioactivity.
- The platelets with gold nanoparticles can produce Raman enhancement effect.
- The platelets with gold nanoparticles can be probed by dark-field microscopic imaging.
- The platelets with gold nanoparticles can be imaged by computed tomography.

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