Functional characterization of a subpopulation of coated platelets that function in platelet-dependent fibrin formation via transglutaminase factor XIII and integrin $\alpha_{\text{Iib}}\beta_3$

Platelet-rich plasma, washed platelets, whole blood
- healthy volunteers vs patient with Glanzmann thrombasthenia
- transglutaminase inhibitors vs F13a1 deficient mice

Flow cytometry analysis (+ Rhod-A14 probe)

Identification of a cross-linked protein coated platelet subpopulation convulxin/thrombin-activated

functional analysis
- flow cytometry
- confocal microscopy

$\alpha_{\text{Iib}}\beta_3$ activation
- high fibrinogen binding
- exposure of phosphatidylserine
- function in platelet-dependent star-like fibrin fiber formation via transglutaminase factor XIII and integrin $\alpha_{\text{Iib}}\beta_3$

Mattheij et al., Haematologica, 2016