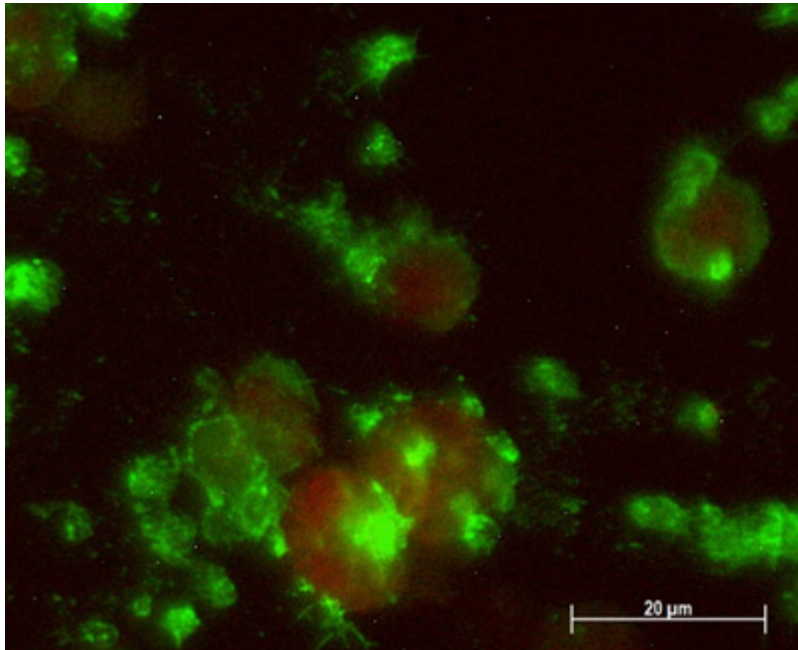


## Development of quality standards for therapeutic blood cell preparations

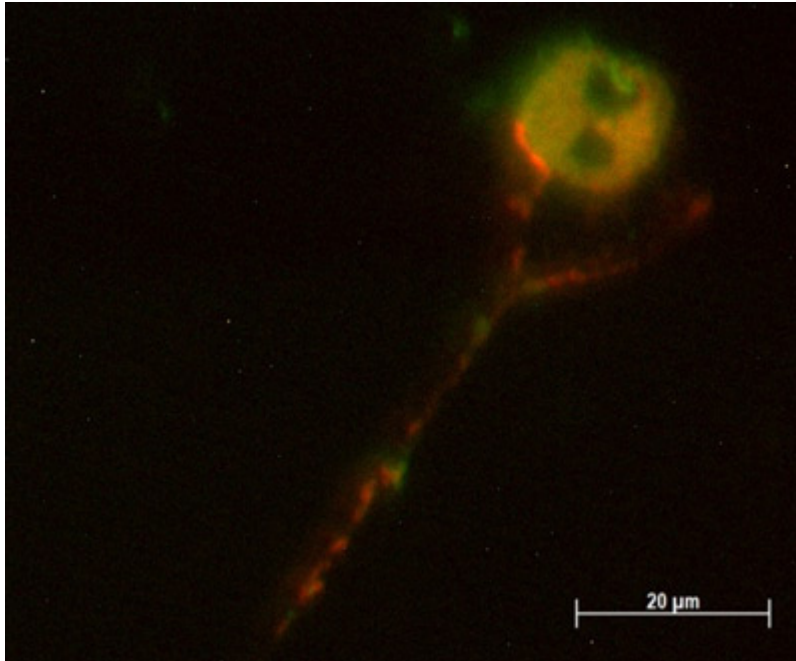
### Investigations on platelet integrity and functional capabilities

Platelets play a fundamental role in haemostasis and vascular integrity. They constitute an important link between haemostasis and tissue regeneration, host defence and immunity. Platelets are small enucleate cell fragments which react very sensitively to inadequate conditions or disorders. Therapeutic platelet concentrates are precious medicinal products due to their short life span ex vivo and due to the lack of applicable preservation methods. Investigations are intended to develop and evaluate methods and test parameters employed for platelet concentrates in order to assure reliable high standard medicinal products for transfusion.

### Platelet-granulocyte–interaction



CD41 FITC staining of platelets (green), CD45 PE staining of granulocytes (red). Source: PEI



CD41 FITC staining of platelets (green), granulocyte DNA-staining (7-AAD, red). Source: PEI