PRINT: ISSN 0972-3757 ONLINE: 2456-6360

Int J Hum Genet, 2(3): 197-204 (2002)
DOI: 10.31901/24566330.2002/02.03.09

Functional Status of Platelets and Hereditary Platelet Disorders

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KEY WORDS Platelet disorders; bone marrow; glycoproteins

ABSTRACT The circulating platelets are derived from bone marrow megakaryocytes in response to thrombopoitic growth factors. The clinical response with recombinant human thrombopoietin (Peg-VHUMGDF and Vh TPO) is being evaluated in chemotherapy induced thrombo-cytopenia. The pathophysiology of platelet adhesiveness in flowing blood is a complex process that involves fibronectin, collagen, platelet glycoproteins thrombo-spondin and a host of related components. Various inherited platelet disorders involve glycoproteins, Von Willebrand factor and release from platelet storage granules leading to von Willebrand disorder (vWD) thrombasthenia, Bernard Soulier disorder, macrothro-mbocytopenia, storage pool disorder and collagen receptor defect. The constituents released from adherent platelets modify the vessel tone vessel wall repair and coagulation.

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