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Cell-derived microvesicles in cardiovascular diseases and antiplatelet therapy monitoring – a lesson for future trials?

Current evidence, recent progresses and perspectives of clinical application.

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Abbreviations:

MV – microvesicles, CVD - cardiovascular diseases, SCAD – stable coronary artery disease, ACS - acute coronary syndromes, EV – extracellular vesicles, CD – clusters of differentiation, PMV – platelet-derived MV, EMV – endothelial cell-derived MV, MMV – monocyte- derived MV, EryMV – erythrocyte-derived MV, NMV – neutrophil-derived MV, GP – glycoprotein, GPIIb/IIIa - glycoprotein IIb/IIIa receptor, GP IX – glycoprotein IX, GP Ib - glycoprotein Ib, GP IIIa – glykoprotein IIIa, HPR - high-on treatment platelet reactivity, VASP - vasodilator-stimulated phosphoprotein, RI - refractive index, NTA- nanoparticle tracking analysis, RPS - tunable resistive pulse sensing, PS – phosphatidylserine, TF – tissue factor; DNA – deoxyribonucleic acid, mRNA - messenger ribonucleic acid

Keywords

microvesicles, microparticles, biomarkers, cardiovascular diseases, antiplatelet agents, pharmacotherapy individualization

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