

Investigating the role of platelets in cancer patients undergoing **treatment with PD-1/PD-L 1 inhibitors** Ying Kang¹, Philomena Entsie¹, Emmanuel Boadi Amoafo¹, Steven F. Powell², Elisabetta Liverani¹

¹Department of Pharmaceutical Sciences, North Dakota State University, Fargo ND; ²Sanford Health, Sioux Fall, SD



Figure 3. CD4⁺ and CD8⁺ T cell populations and circulating platelet/T cell aggregates in blood samples of cancer patients before and after immunotherapy. Whole blood samples were collected from cancer patients before (pre-therapy) and after 3 weeks of immuno-therapy (post-therapy). CD4⁺ and CD8⁺ T cell populations and platelet/T cell aggregates were analyzed through flow cytometry (n=2).





SCIENCES



Figure 4. Platelet and white blood cell counts in samples of cancer patients before and after immunotherapy. Cell counts were measured using Hemavet Multispecies Hematology System. Graphs show counts of platelets (A), white blood cells (B), lymphocytes (B) and neutrophil (B) in blood samples from cancer patients before (pre-therapy) and after 3 weeks of immuno-therapy (posttherapy). Values are expressed as 1×10^{3} cells/µL, mean ± S.E.M. n=2.

Figure 5. CD4⁺ and CD8⁺ T cell populations and platelet/T cell aggregates in patient platelets and PBMCs co-culture. Platelets and PBMC were isolated from cancer patients and co-cultured for 48 hours. T cells were stimulated using anti-CD3 and anti-CD28 antibodies. CD4⁺ and CD8⁺ T cell populations and platelet/T cell aggregates were analyzed through flow cytometry (n=2).