

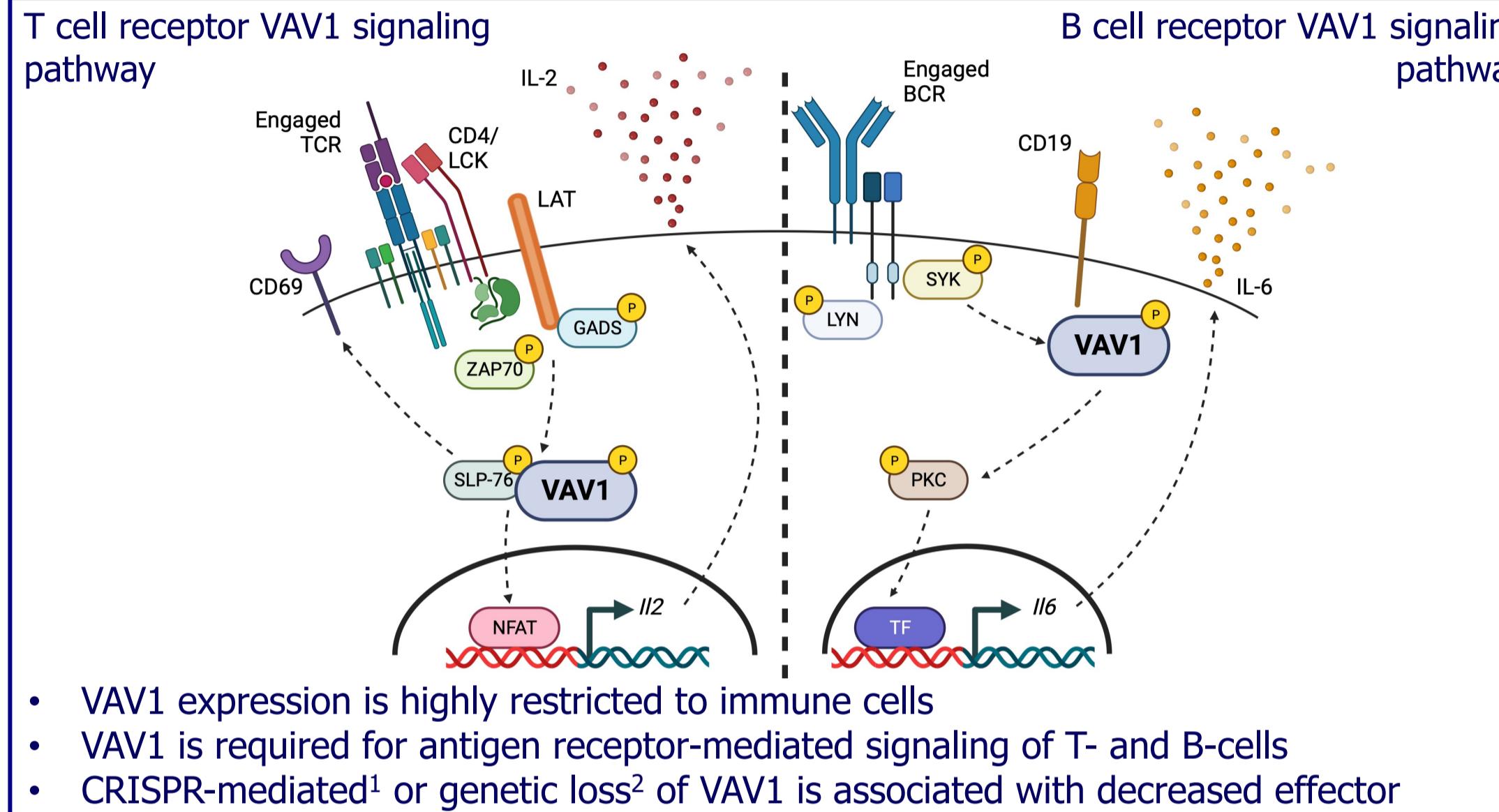
#0082: A VAV1-Directed Molecular Glue Degrader, MRT-6160, Reduces Joint Inflammation in a Collagen-Induced Arthritis Autoimmune Disease Model

Cartwright ANR², Desai F¹, Nguyen S¹, Trouilloud A¹, Liardo E², Wible D¹, Lamberto I¹, Demarco B¹, King C¹, Bonenfant D², Townson S¹, Wallace O¹, Janku F¹, McAllister L², Paterson A¹, Peluso M¹

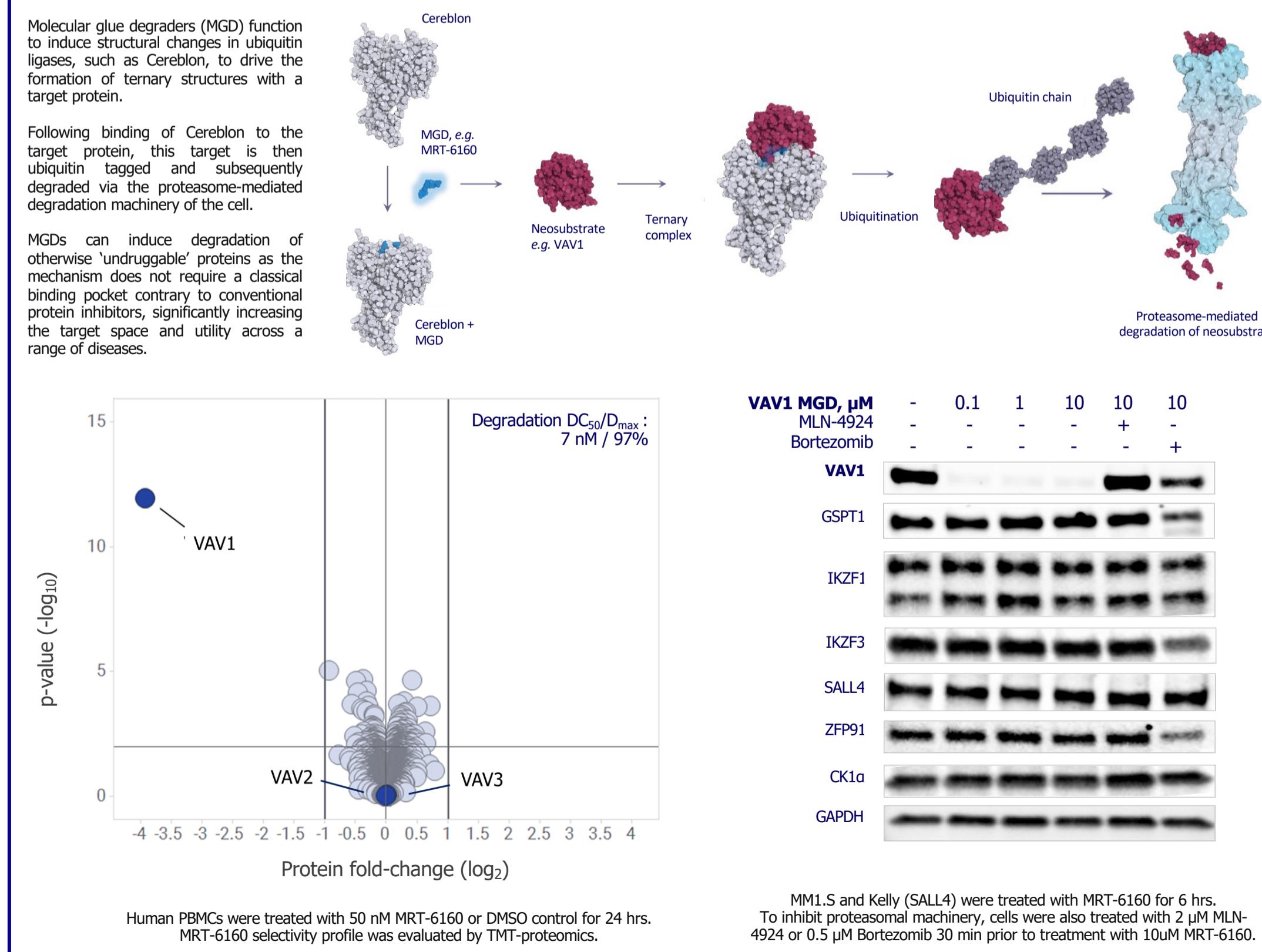
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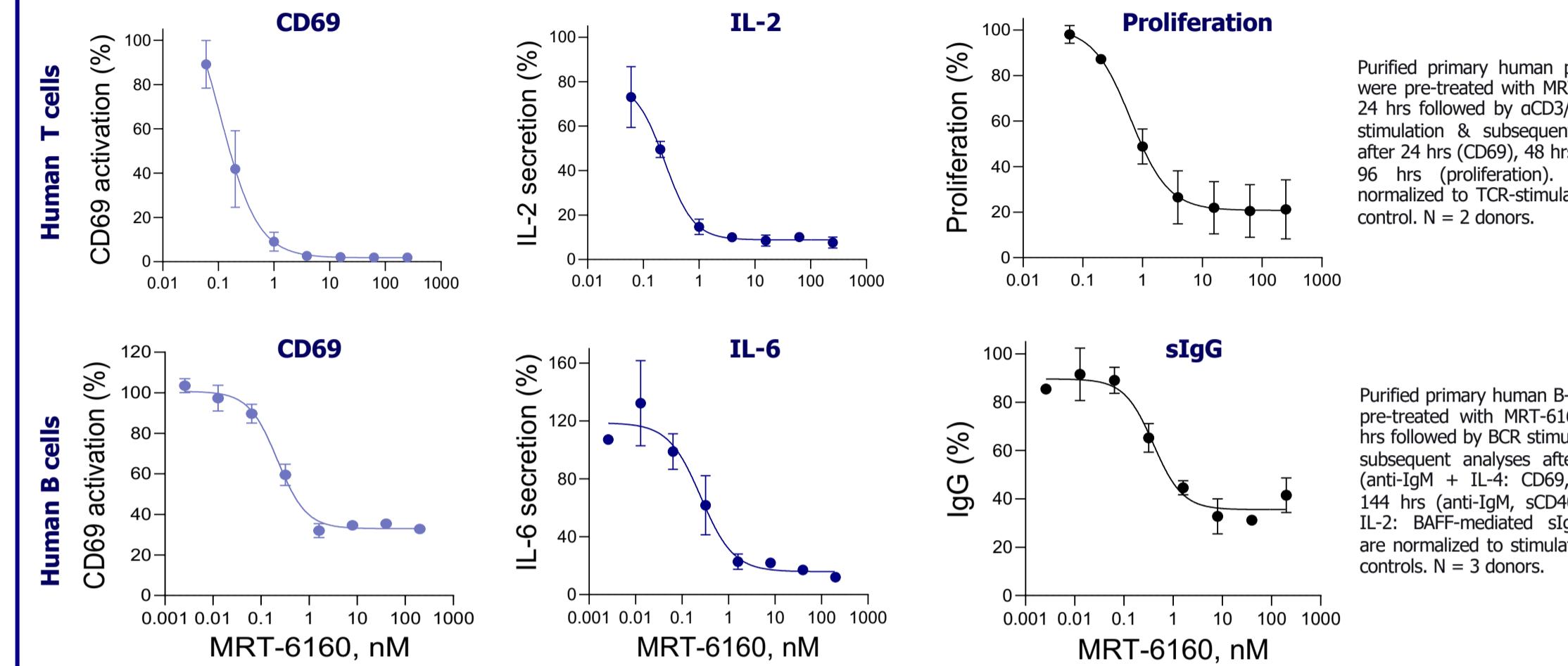
VAV1 is a guanine nucleotide exchange factor with a critical role in T- and B-cell receptor signaling and activity



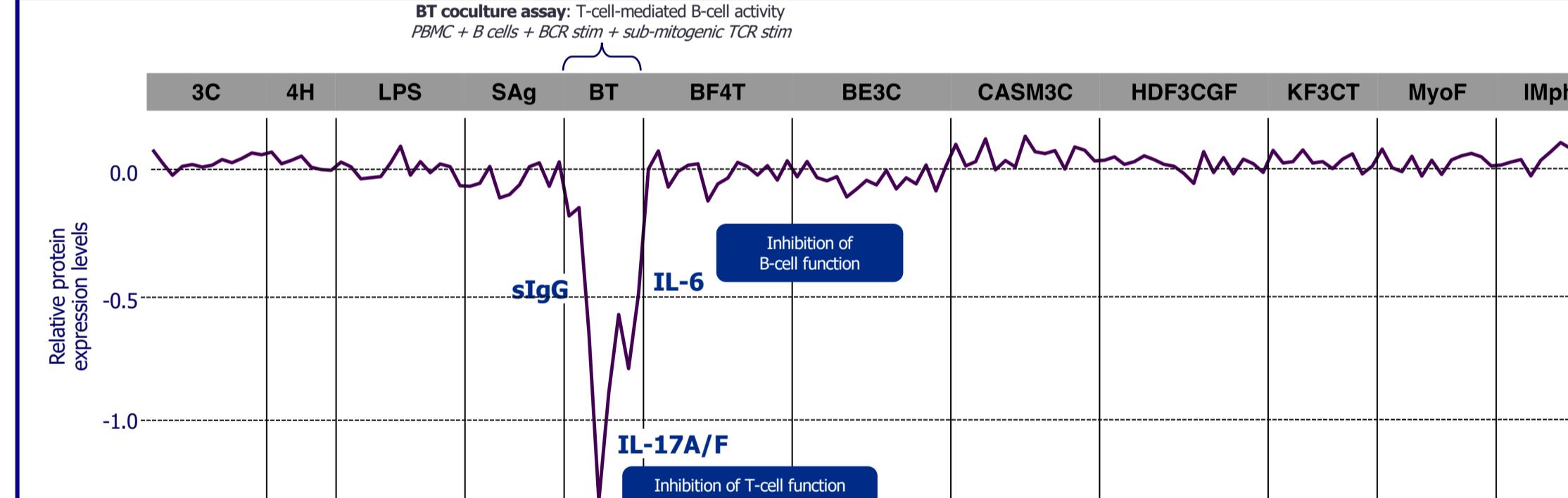
MRT-6160 is a rationally designed molecular glue degrader that selectively degrades VAV1 in human immune cells



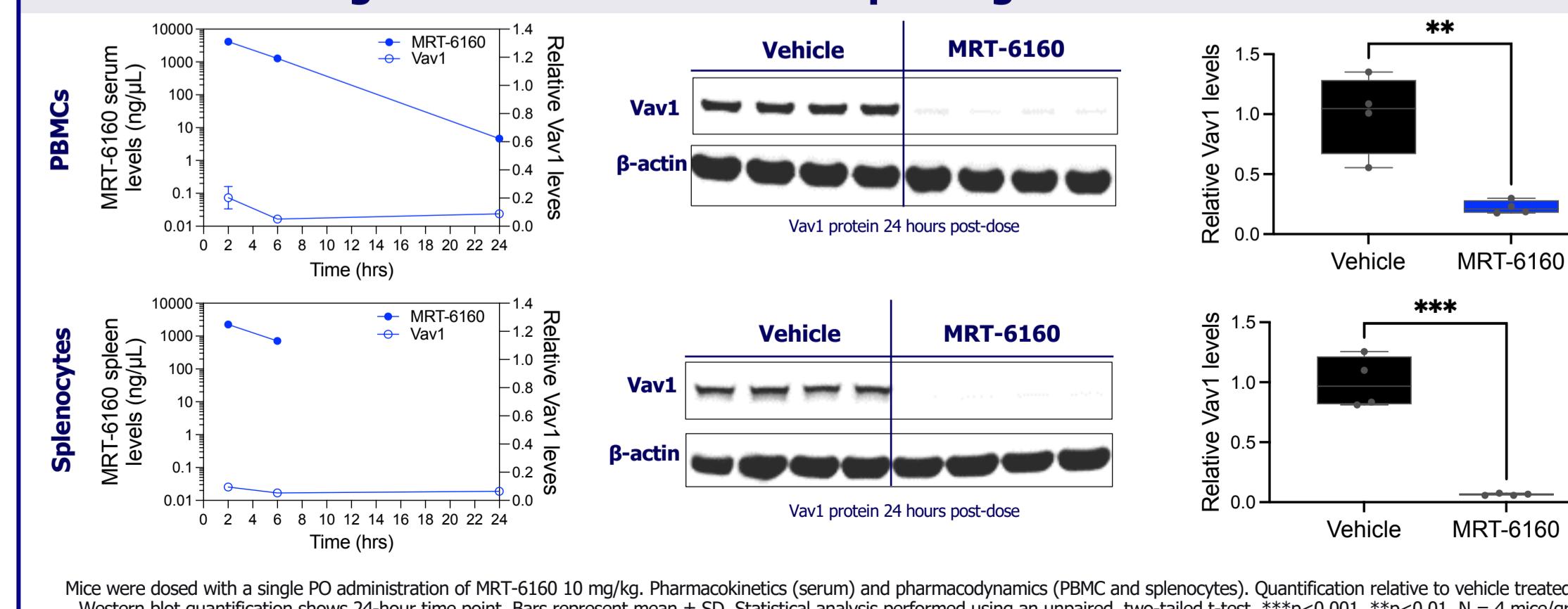
MRT-6160-induced degradation of hVAV1 attenuates T- and B-cell activation and effector functions



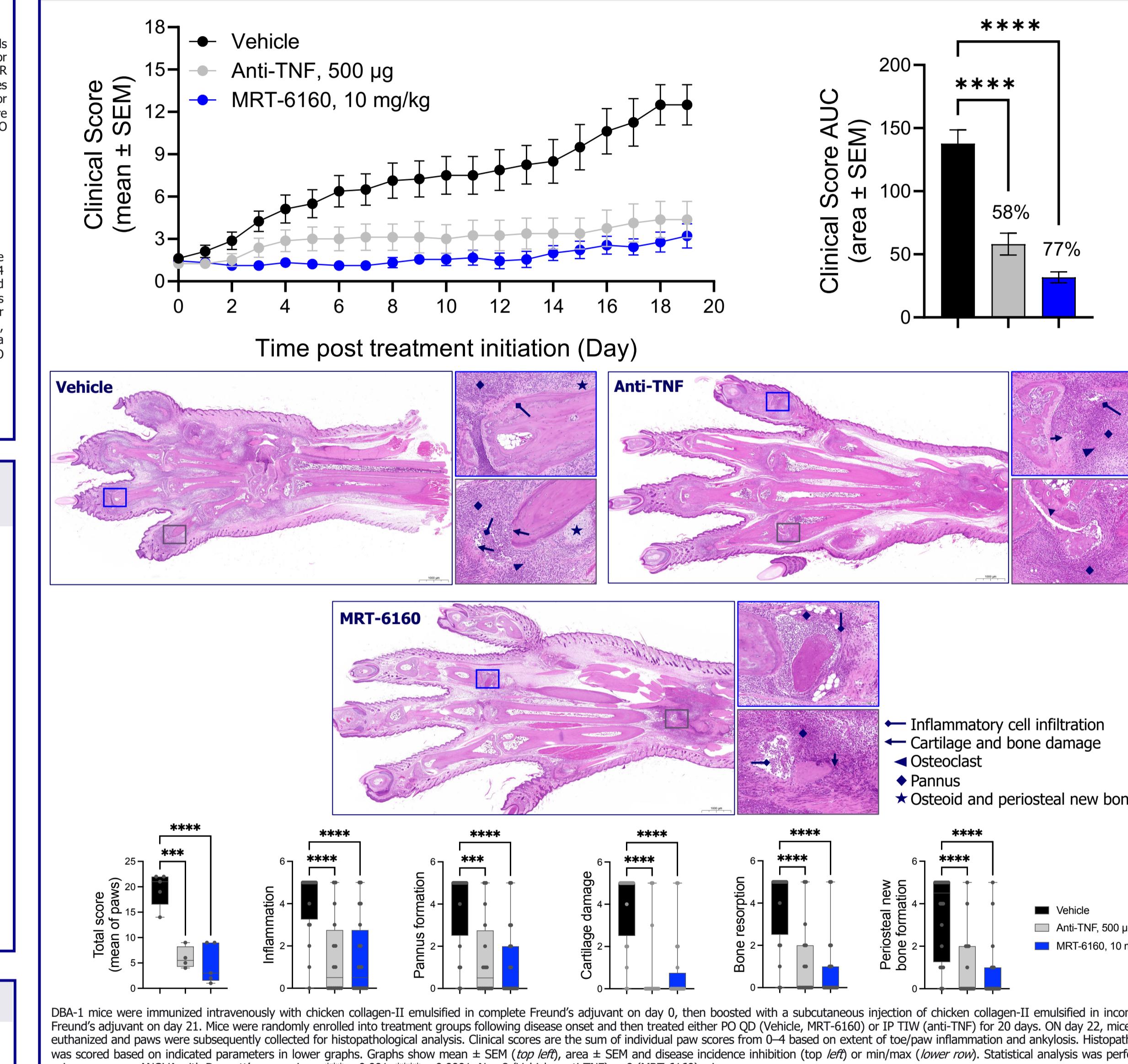
Degradation of hVAV1 specifically inhibits key pro-inflammatory protein secretion by T- and B-cells



Oral dosing of MRT-6160 leads to rapid degradation of mVav1 in vivo



Oral dosing of MRT-6160 attenuates disease progression in a collagen-induced arthritis (CIA) autoimmune murine disease model



Summary and Future Development

- MRT-6160 is a first-in-class selective VAV1 molecular glue degrader that attenuates antigen receptor-mediated activation and effector functions of T- and B-cells.
- Oral dosing of MRT-6160 rapidly degrades Vav1 *in vivo* commensurate with exposure.
- Vav1 degradation attenuates disease progression in the CIA autoimmune disease model.
- Given its *in vitro* and *in vivo* MOA profile, MRT-6160 has strong potential to alleviate disease symptoms in multiple autoimmune and inflammatory diseases including rheumatoid arthritis, multiple sclerosis, inflammatory bowel disease, and psoriasis.
- MRT-6160 is a development candidate with IND submission anticipated in 1H24.