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Factor IX alteration p.Arg338Gln (FIX Shanghai) potentiates FIX clotting activity and causes thrombosis

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Disclosures: W.W. designed experiments, analyzed data, and wrote the paper; L.X. execute animal work, analyzed data and wrote the paper; P.L. and Z.Z. prepared AAV vectors; X.X, C.C, J.A expressed recombinant protein and performed function assay; A.V. wrote the paper; B.D. planed the experiments of AAV vectors; X.W performed the clotting function assays and FIX antigen determination of patient; X.W and Q.D. established the diagnosis of the patients, over sighted experiments and wrote the paper; B.D. planned and conducted the experiments of AAV vectors and wrote the paper. This work was supported by NSFC 81670130, W.W; NSFC 81570115, X.W; NSFC 81570114, Q.D; NSFC 81571792, B.D.

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