

SFTH Congrès de la Société Française de Thrombose et d'Hémostase 1^{ER}-3 OCTOBRE 2025

Le réservoir extraplasmatique de Facteur IX

UR-4609 Hémostase & Thrombose

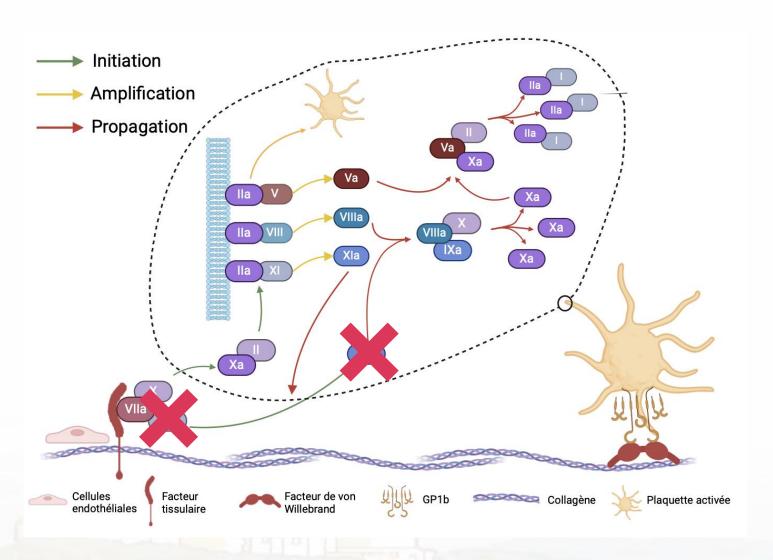
A. Leuci¹, M. Marano¹, C. Martin¹, Y. Dargaud¹ ¹Ur4609 Univ Lyon 1 - Lyon (France)





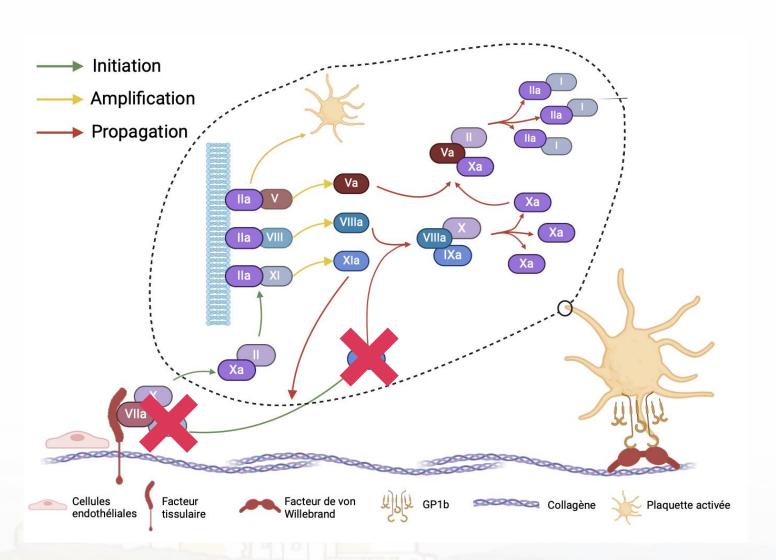








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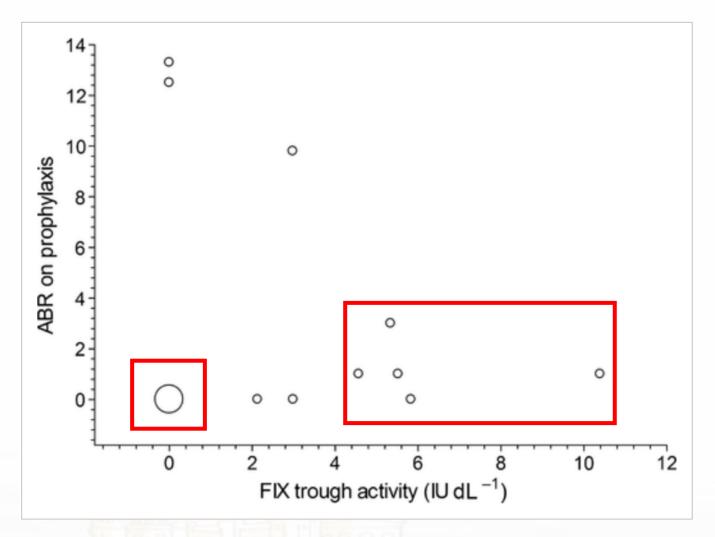
Synovite

Hyperplasie synoviale

Dégradation du cartilage puis de l'os

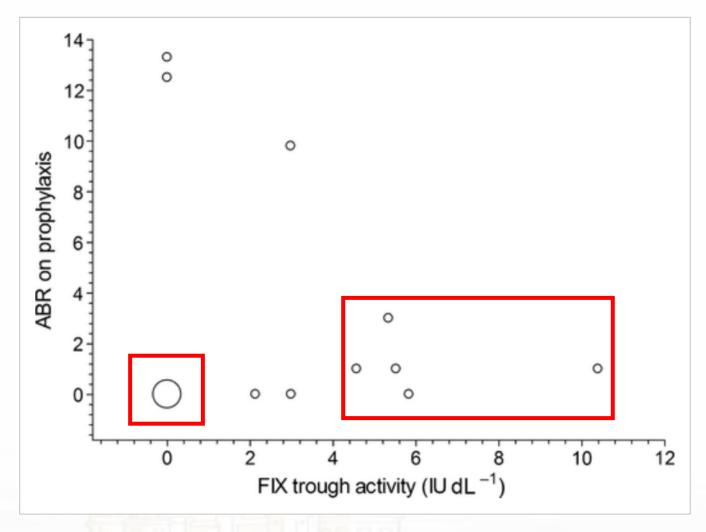


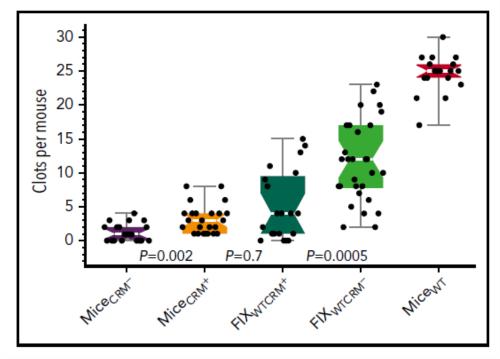






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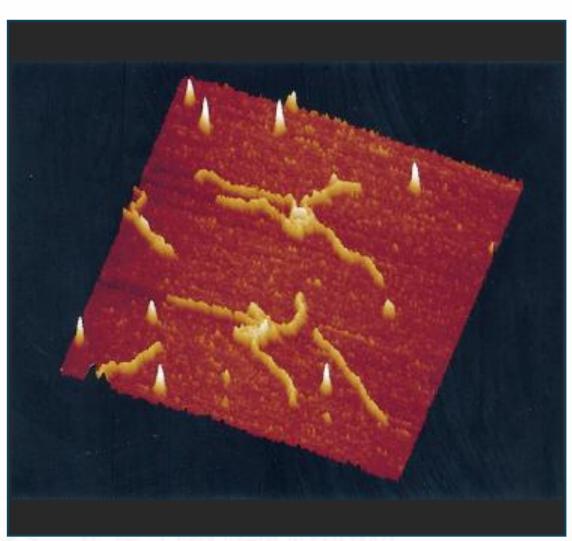


Cooley et al. Blood. 2019;133(22):2445-2451

OC 24.1
Effect of the Type of F9 Mutation on the Pharmacokinetic Profile of Patients with Hemophilia B Treated with Extended Half-Life FIX Concentrates

Matino D et al. ISTH 2023



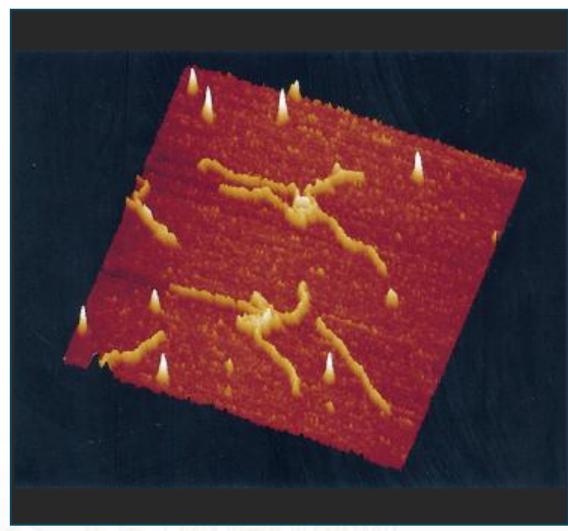


Wolberg et al. J Clin Biol 1997;272: 16717-20



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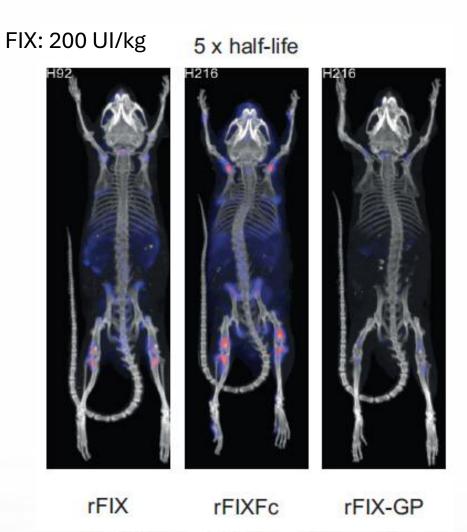


K5A control K5R WT

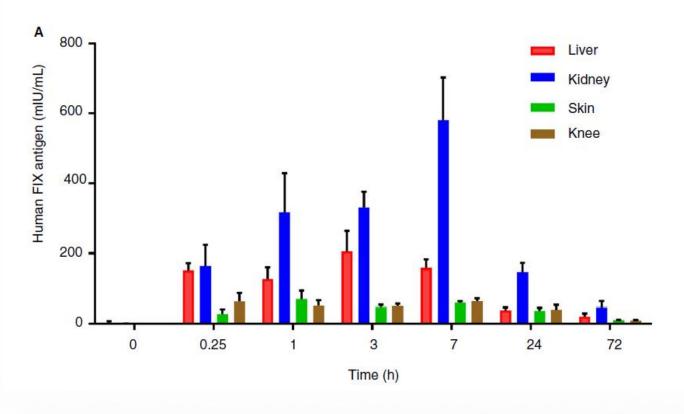
Feng et al. Journal of Thrombosis and Haemostasis, 11: 2176–2196

Wolberg et al. J Clin Biol 1997;272: 16717-20





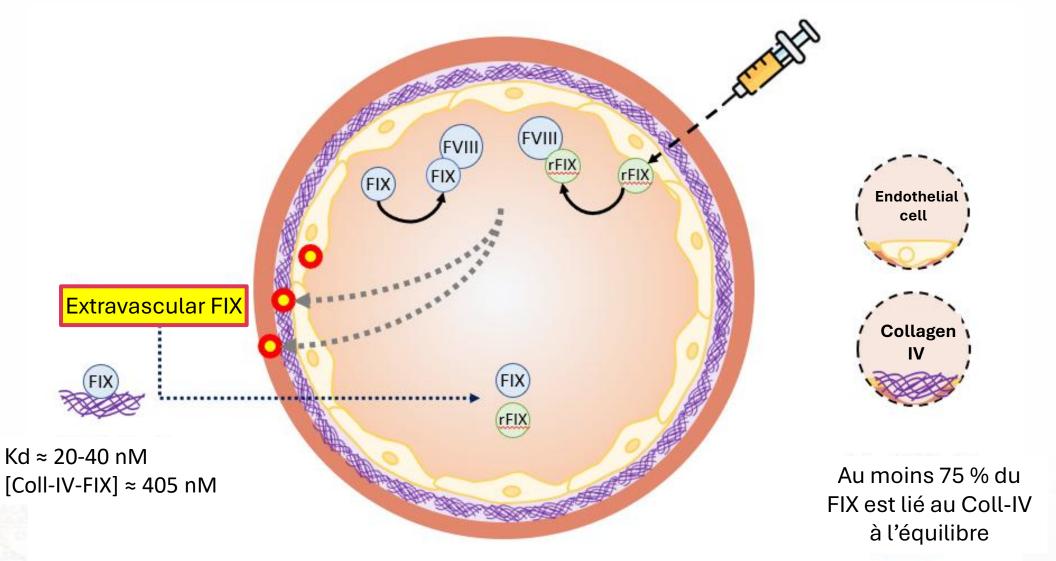
FIX-FP: 2000 UI/kg



Van der Flier et al. Blood Coagulation and Fibrinolysis 2023, 34:353–363

Herrmann et al. J Thromb Haemost. 2020;18:3194-3202.





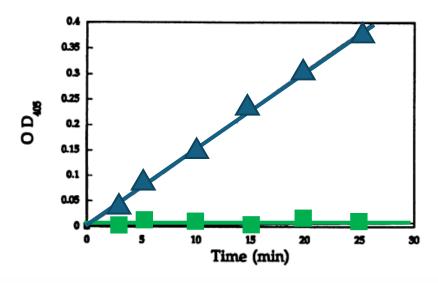
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Le FIX lié au Coll-IV est-il actif?

Le FIX extravasculaire permet-il de protéger contre des saignements?

Est-ce que le FIX extravasculaire est le seul réservoir de FIX ?





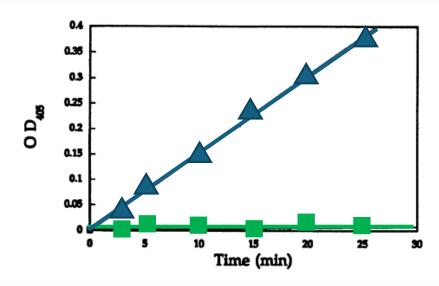
Tenase activity of 0,5n M FIX bound to

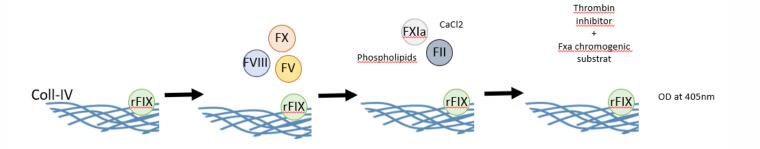
endothelial cells

ECM protein



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Tenase activity of 0,5n M FIX bound to

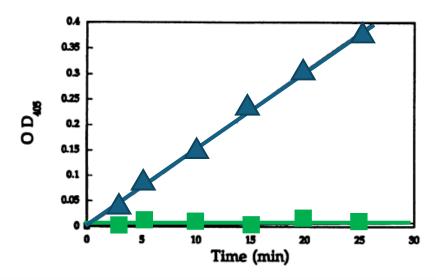
endothelial cells

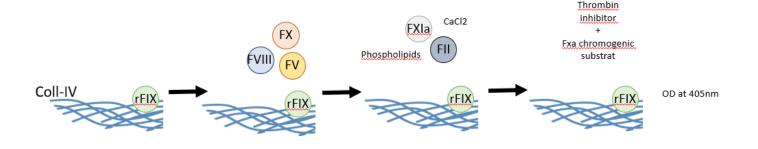
ECM protein



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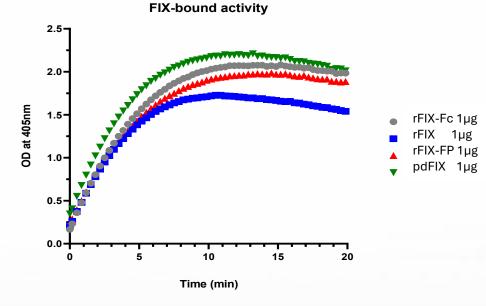


Tenase activity of 0,5n M FIX bound to

endothelial cells

ECM protein

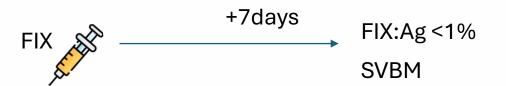
Le FIX lié au Coll-IV est actif Suffisant pour assurer l'hémostase ?

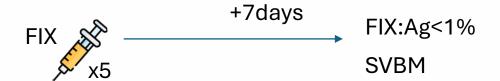


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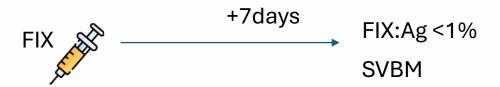


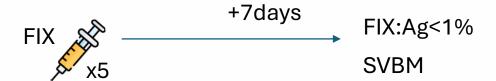
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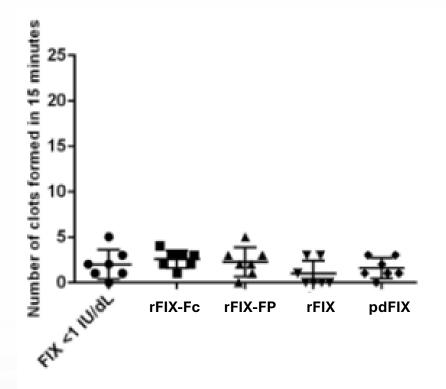




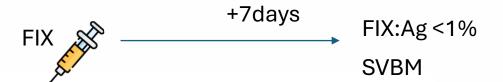


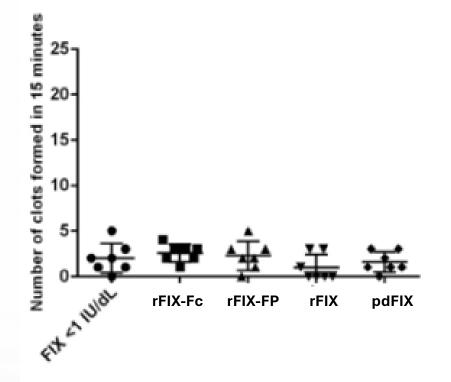


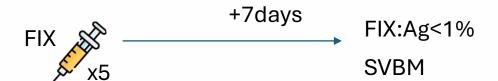


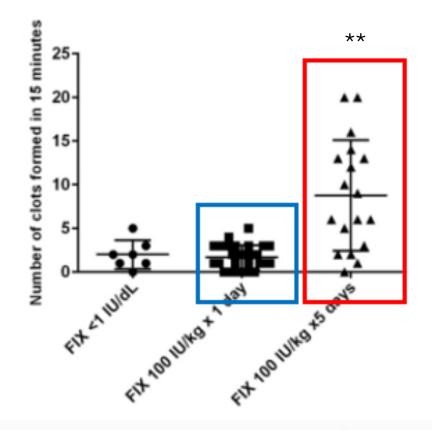






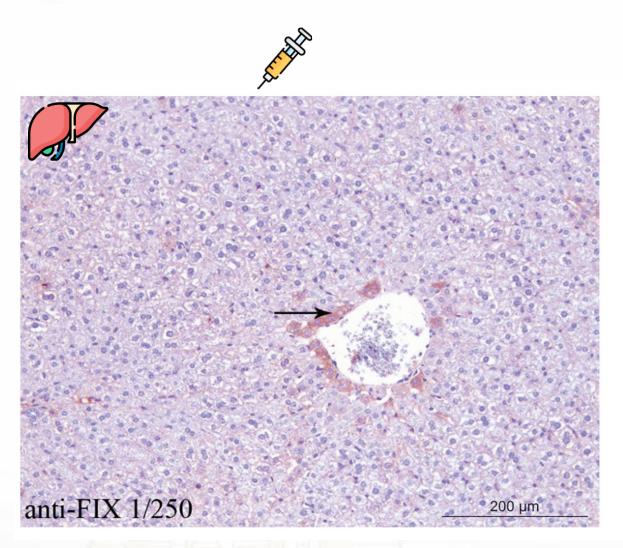


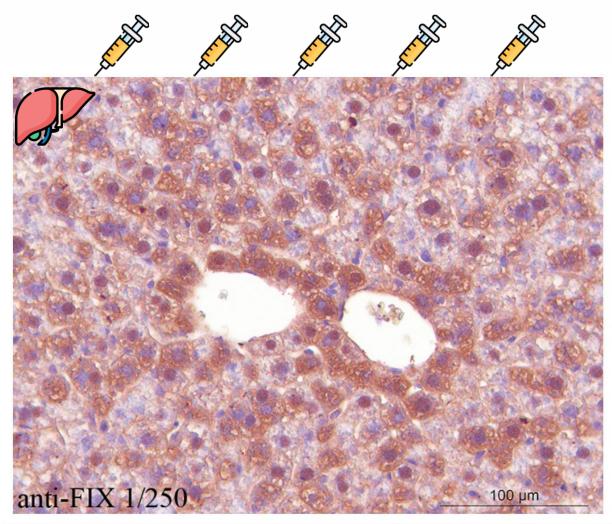






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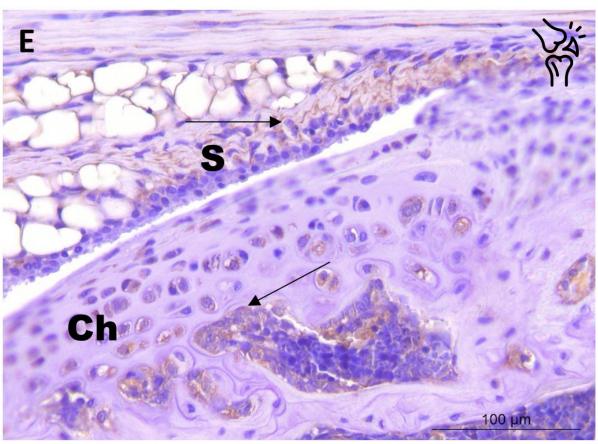


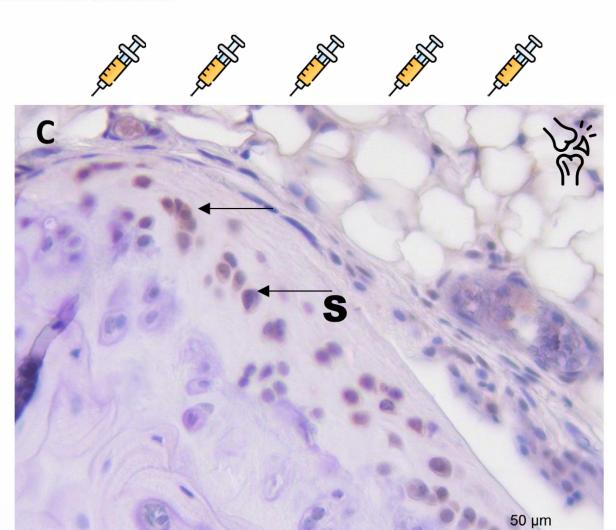




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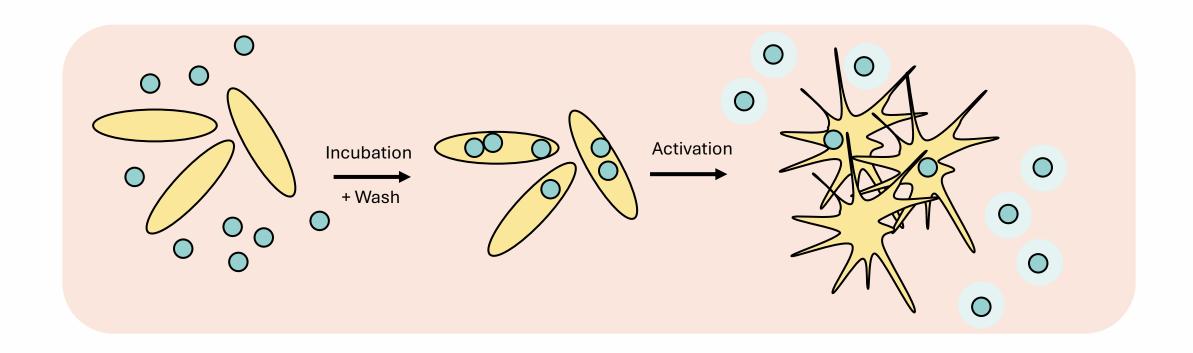
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La <u>prophylaxie par FIX</u> permet de constituer un <u>réservoir autour des vaisseau</u>

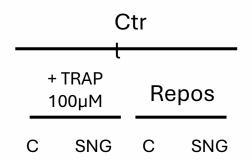
Le <u>FIX reste hémostatiquement actif</u> pour contrôler un saignement

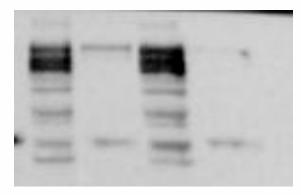
Le FIX lié au Coll-IV le <u>seul réservoir</u> <u>extraplasmatique</u>?





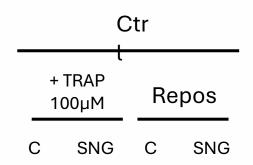


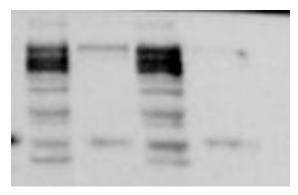




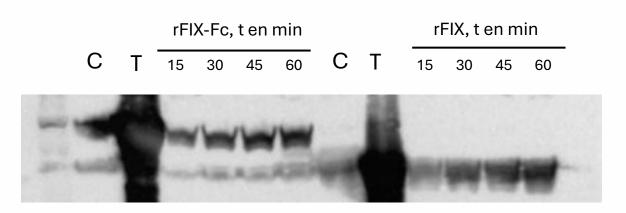
Présence d'une faible quantité de FIX dans les plaquettes de donneurs sains FIX sécrété après activation

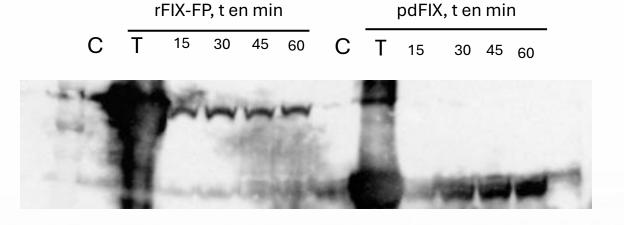






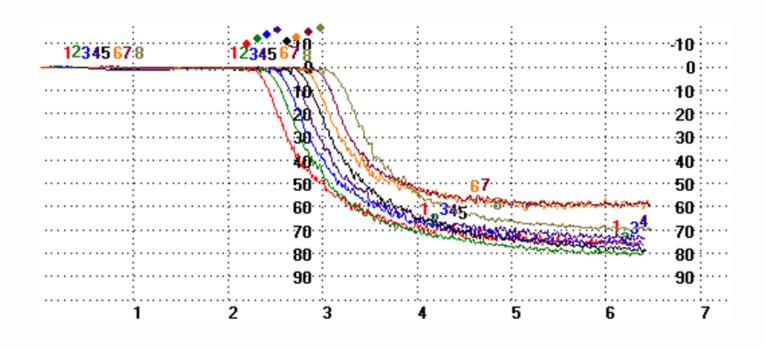
Internalisation du FIX atteinte pour 30 min



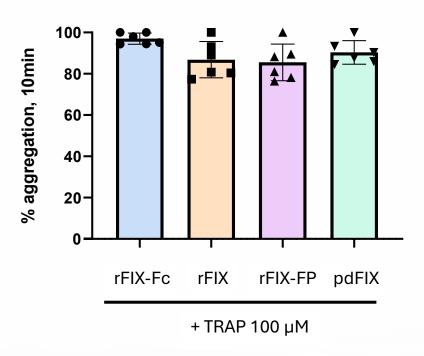


Données personnelles non publiées





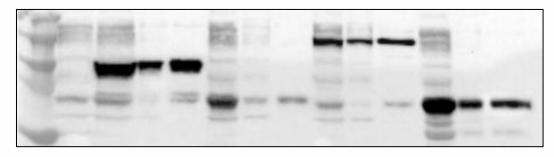
Aggregation at 10min



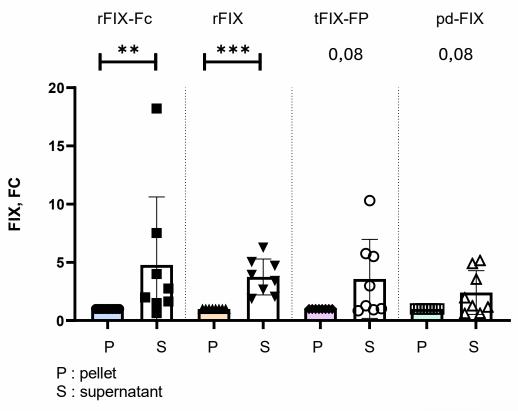
L'internalisation de pdFIX ou de rFIX ne modifie l'agrégation plaquettaire



	rF	IX-Fc		rFIX		rFIX-		pdFIX
'		TRAP 100µM		TRAP 100µM		FP TRAP 100µM		TRAP 100µM
С	Т	C SNG	Т	C SNG 1	Γ	C SNG	Т	C SNG



Le pdFIX ou le rFIX internalisé est retrouvé en partie dans le surnageant d'activation des plaquettes



+ TRAP-100μM

Données personnelles non publiées

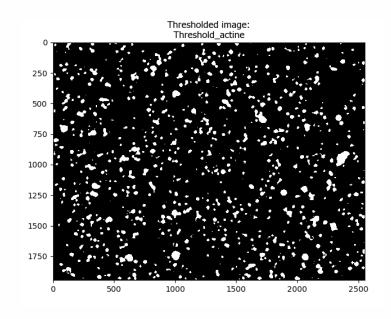


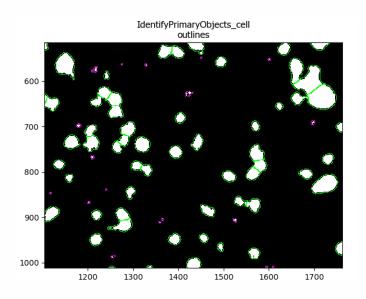
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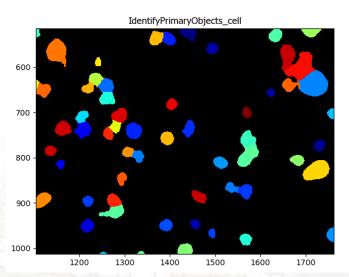
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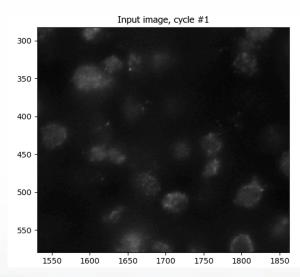


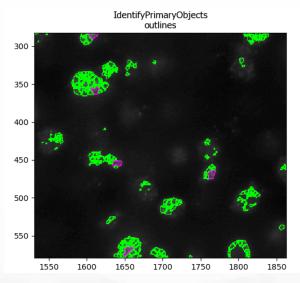
https://cellprofiler.org/







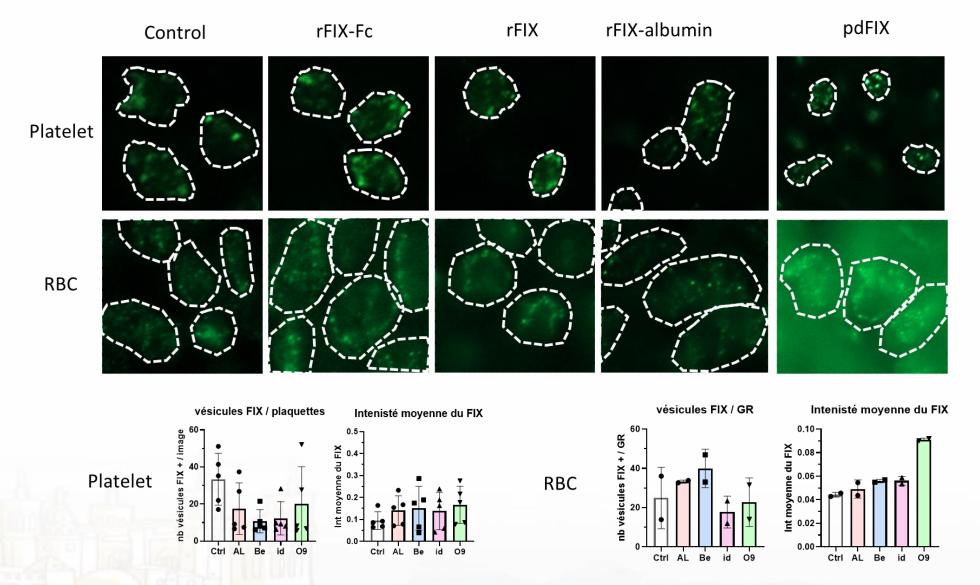






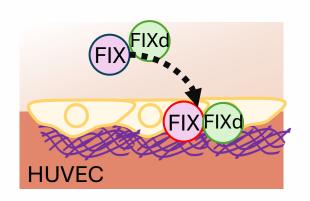
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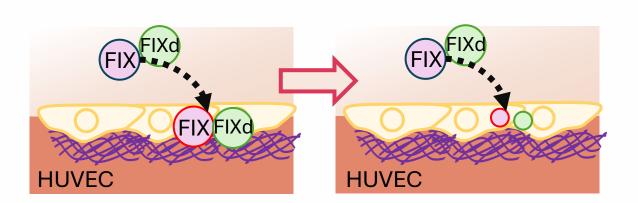


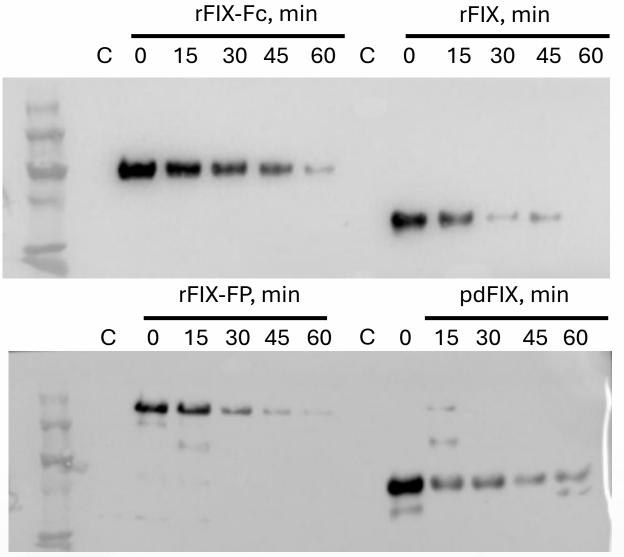


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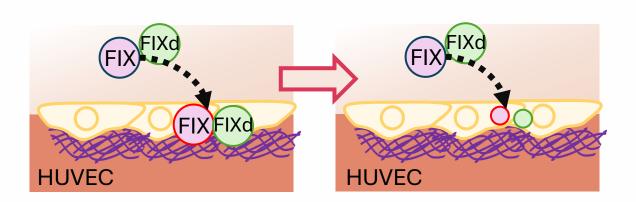


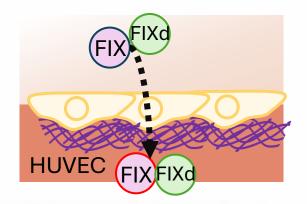




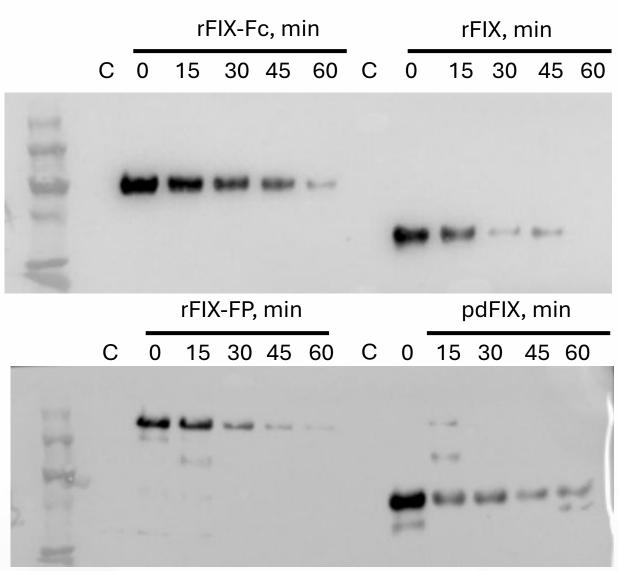






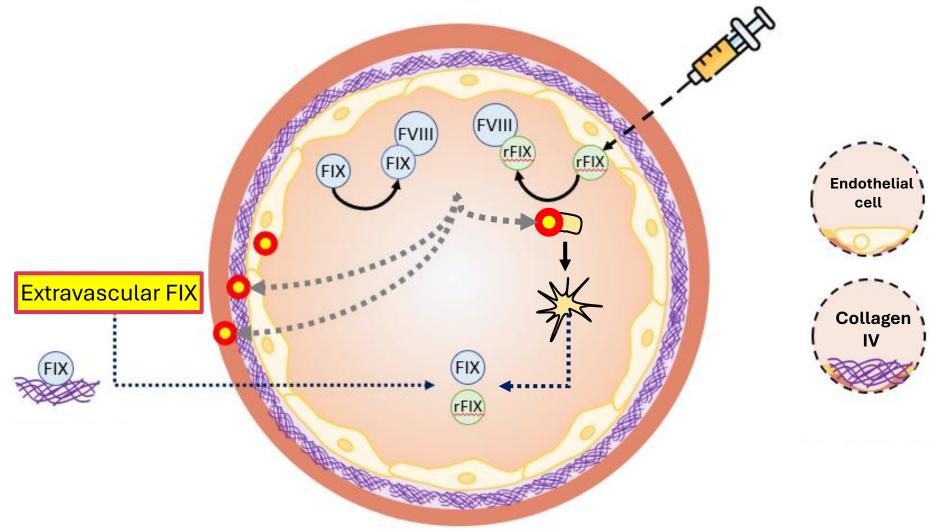


Temps de résidence court dans les HUVECs Transit vers le sous endothélium?*





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- La prophylaxie permet de constituer un réservoir de FIX
- Le FIX fixé au Coll-IV hémostatiquement actif.
- Les plaquettes pourraient également jouer un rôle de réserve vasculaire, augmentant la demi-vie du FIX thérapeutique
- Perspectives pour la thérapie génique



Merci de votre attention

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Martine Melin



Médecins et infirmières du CRH



Animalerie ALECS

Angèle Chamousset Chloé Renoux

Plateau d'imagerie : CIQLE Denis Ressnikoff