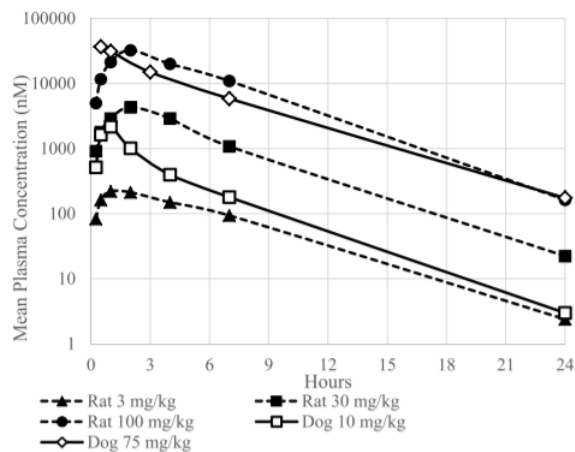
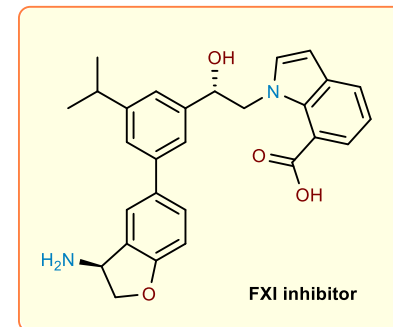
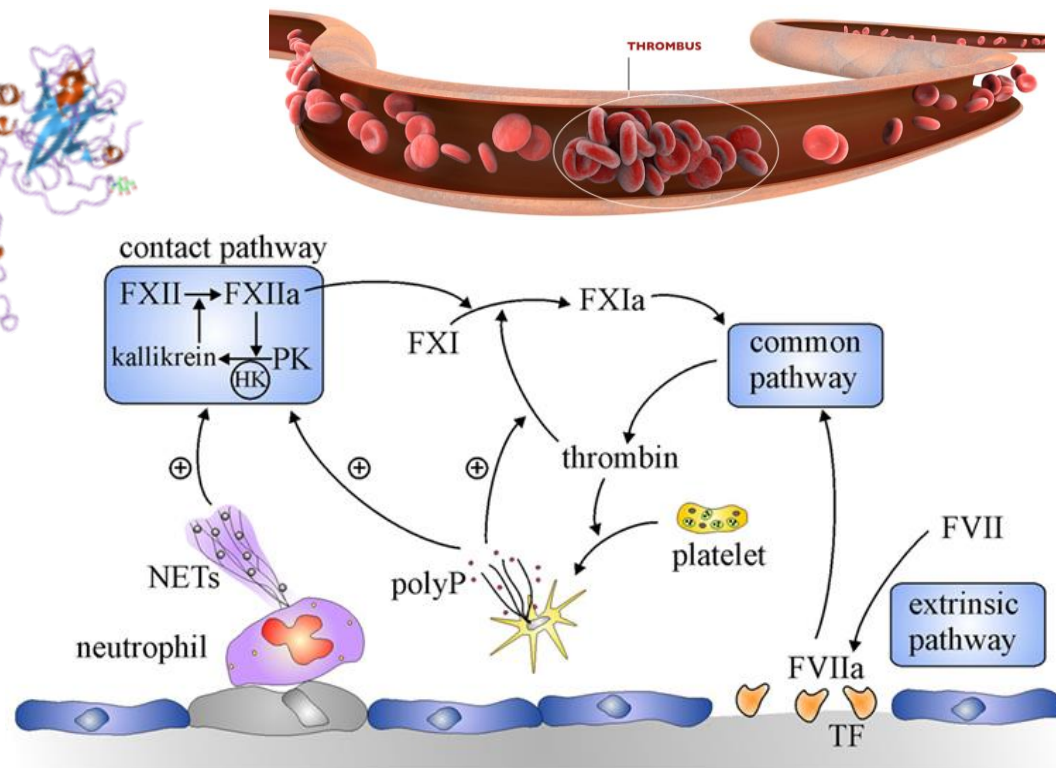
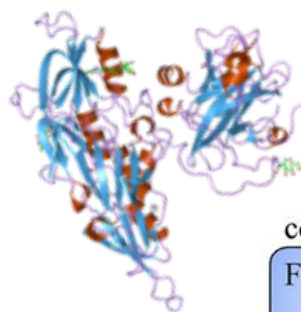


- Scalable asymmetric synthesis of FXI inhibitor for preclinical studies
- Reduction of ketone to chiral alcohol through biocatalysis
- Suzuki–Miyaura cross-coupling facilitated by surfactant chemistry
- Harsh hydrolysis of the nitrile via flow chemistry



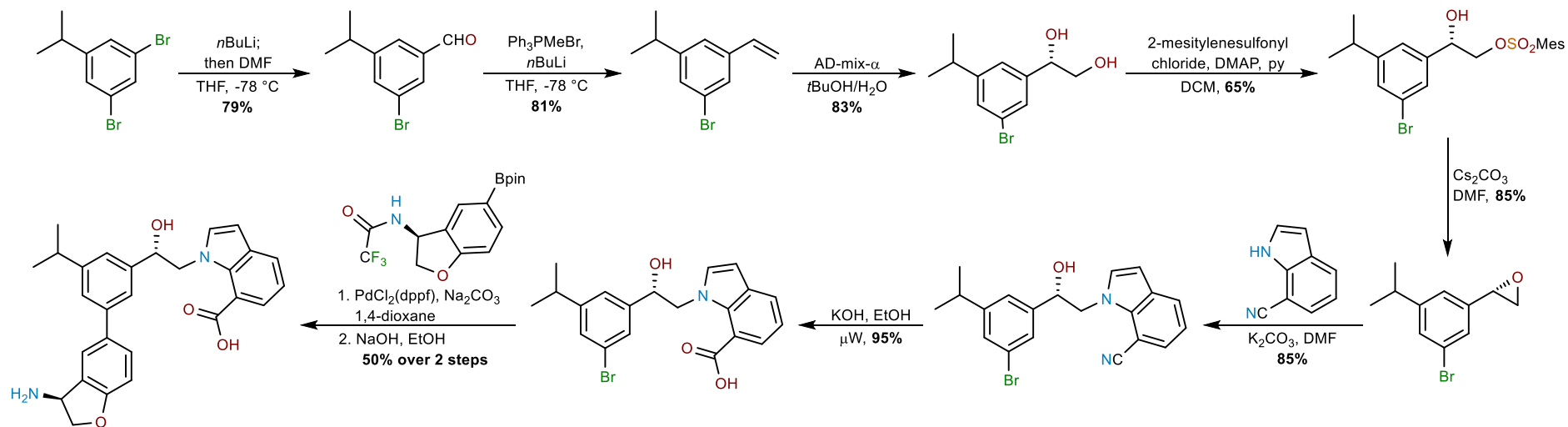
Species	PO Dose (mg/kg)	D.N. Cmax (nM)	D.N. AUC _{0-t} (nM*h)	%F	
Rat	3	77 ± 4	382 ± 71	10 ± 2	
	30	143 ± 39	621 ± 169	19 ± 5	
	100	323 ± 64	1770 ± 439	45 ± 11	
Dog	10	217 ± 57	560 ± 254	5 ± 2	
	75	504 ± 171	2200 ± 620	21 ± 6	
IV parameters (1mg/kg)		Cl (ml/min/kg)	AUC _{0-t} (nM*h)	Vd _{ss} (L/kg)	T _{1/2} (h)
Rat		9.4 ± 1.0	3330 ± 370	1.3 ± 0.2	6.4 ± 0.1
Dog		4.4 ± 0.4	10660 ± 960	0.3 ± 0.0	2.8 ± 0.1



Lorthois, E. and Roache, J. *J. Med. Chem.* **2020**, *63*, 8088-8113. <https://doi.org/10.1021/acs.jmedchem.0c00279>

Gao, F. and Wang, J. *Org. Process Res. Dev.* **2020**, DOI: 10.1021/acs.oprd.0c00412. <https://doi.org/10.1021/acs.oprd.0c00412>

Medicinal Chemistry Route:



Process Route:

