



Universitat
de les Illes Balears



Institut
d'Investigació Sanitària
Illes Balears

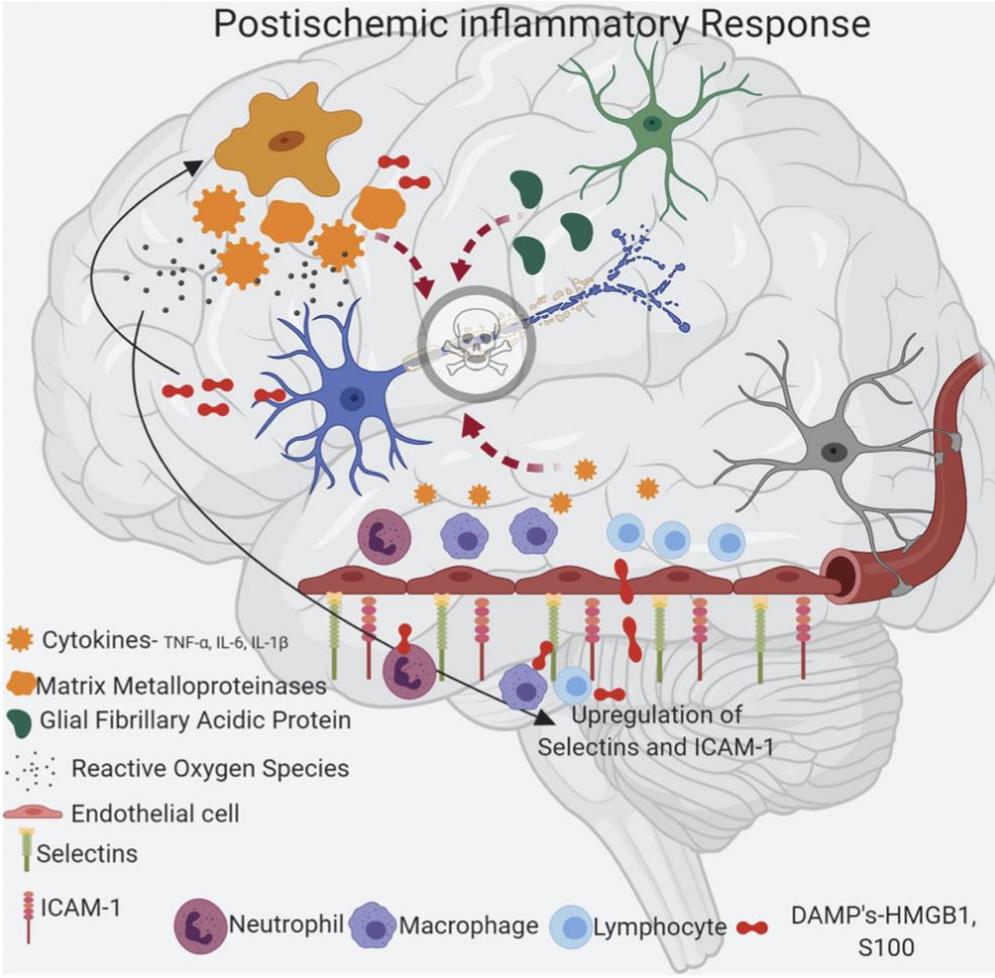
La infra-expresión de la proteína PATJ en endotelio vascular induce un fenotipo proinflamatorio



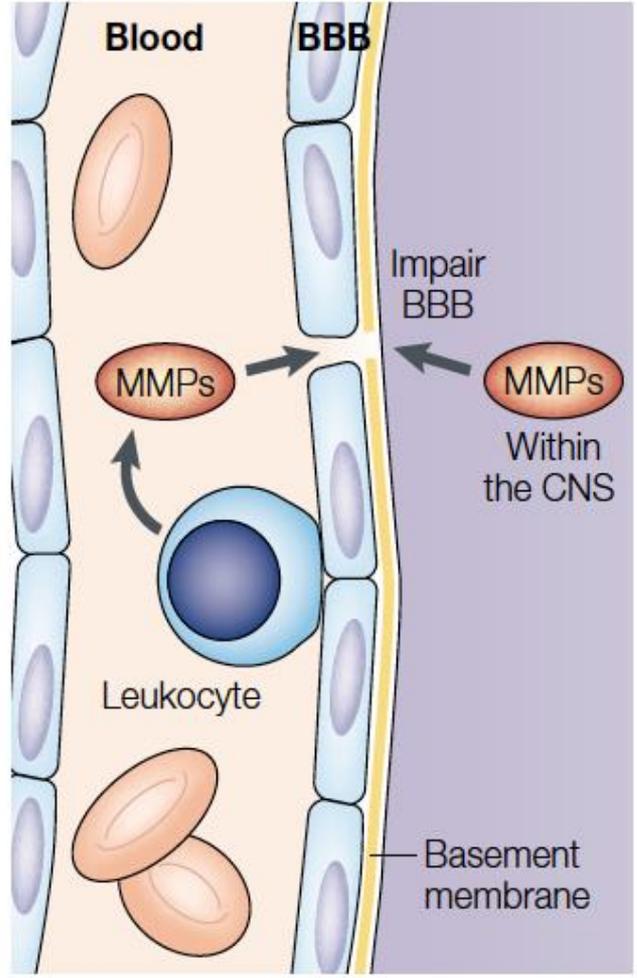
Marina Jaume Batle

*Grupo de Neurobiología
celular*

La respuesta inflamatoria después del ictus provoca liberación de citoquinas proinflamatorias, expresión de moléculas de adhesión y permeabilización de la Barrera Hematoencefálica

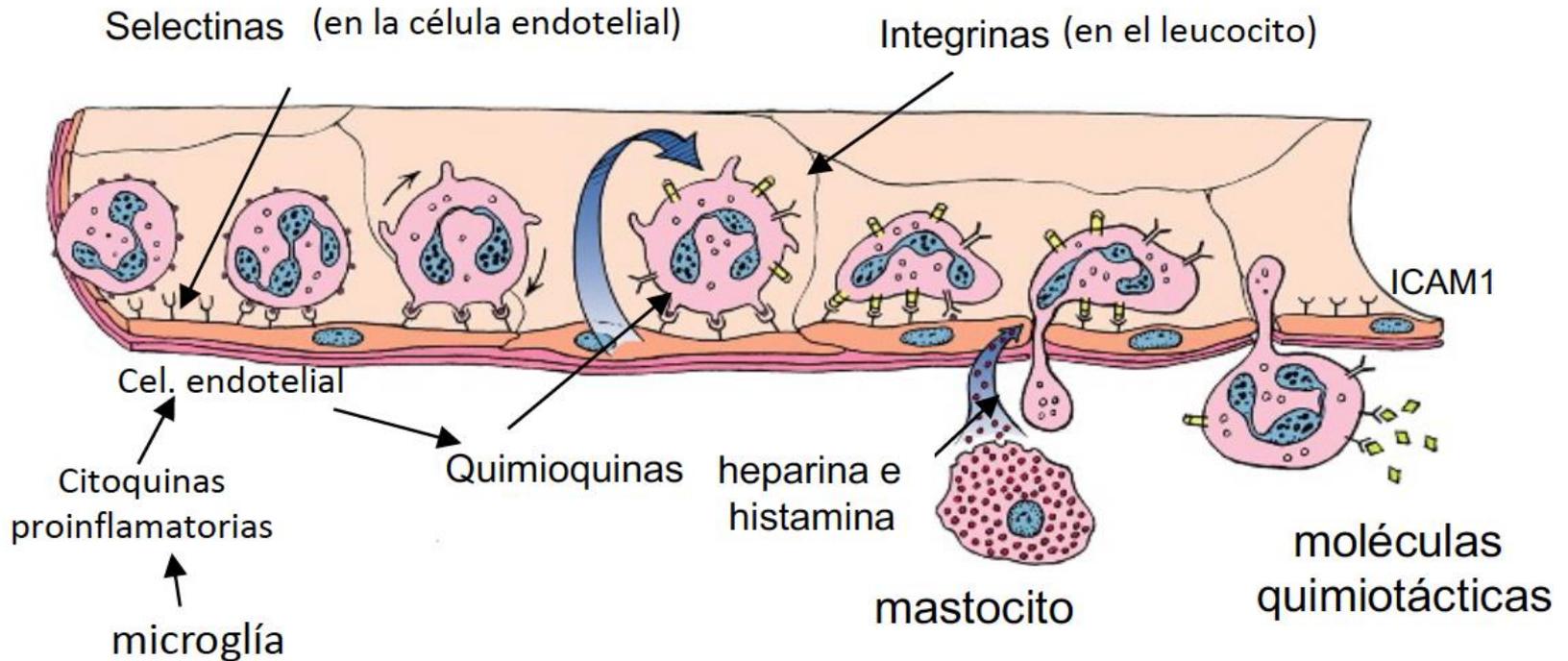


Jayaraj (2019)

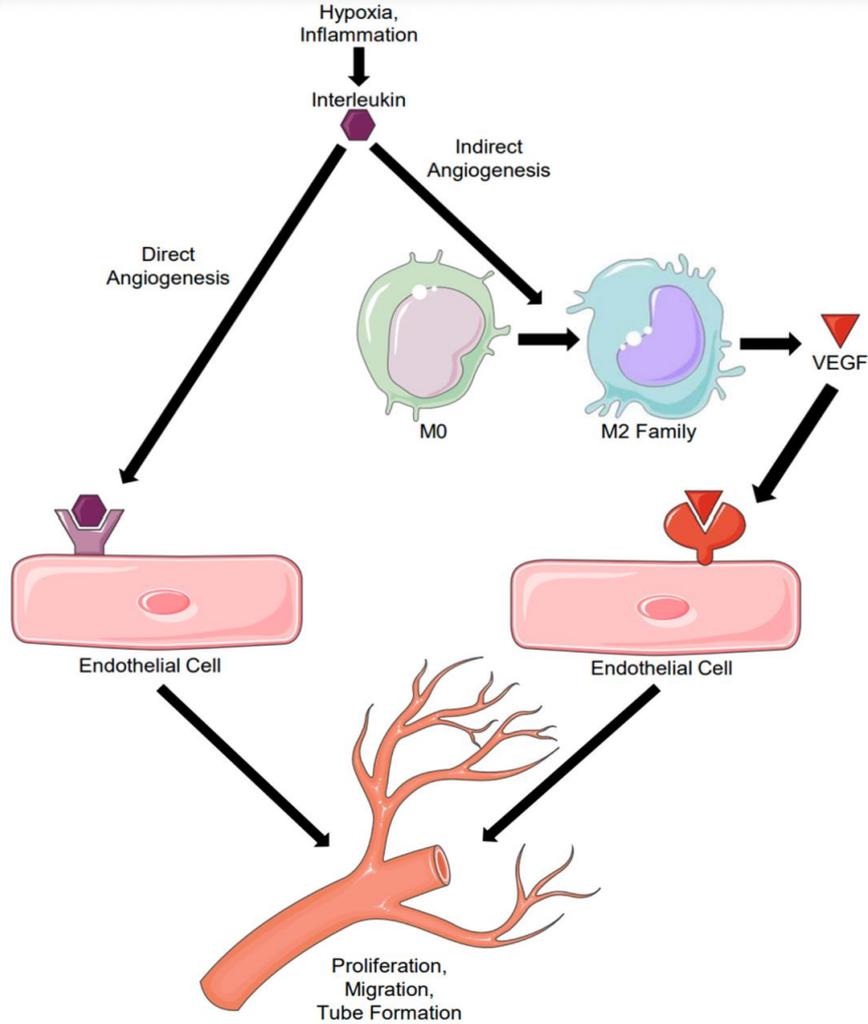


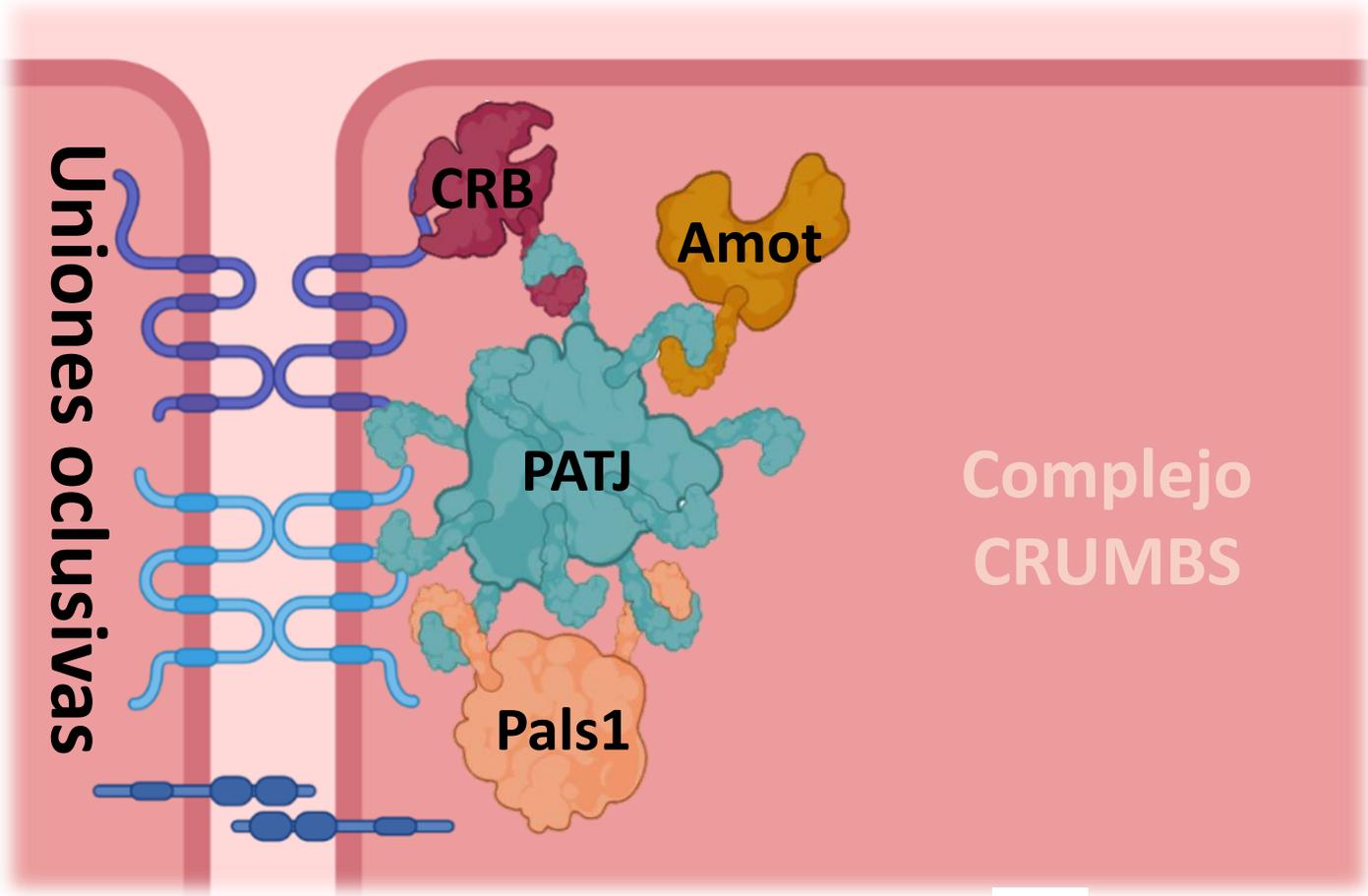
Yong et al. (2001)

El fenotipo inflamatorio de las células endoteliales favorece la infiltración de leucocitos



Las moléculas proinflamatorias desencadenan procesos angiogénicos

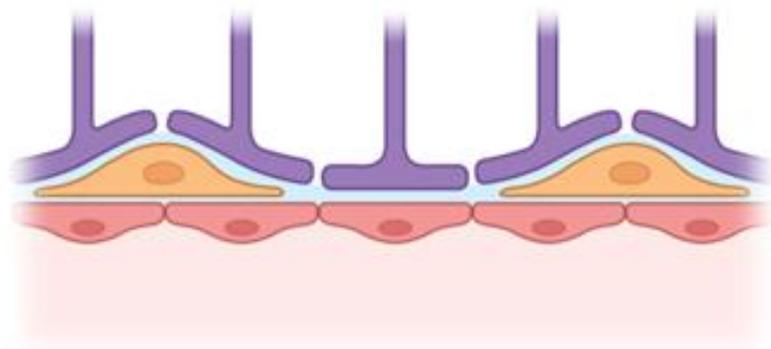
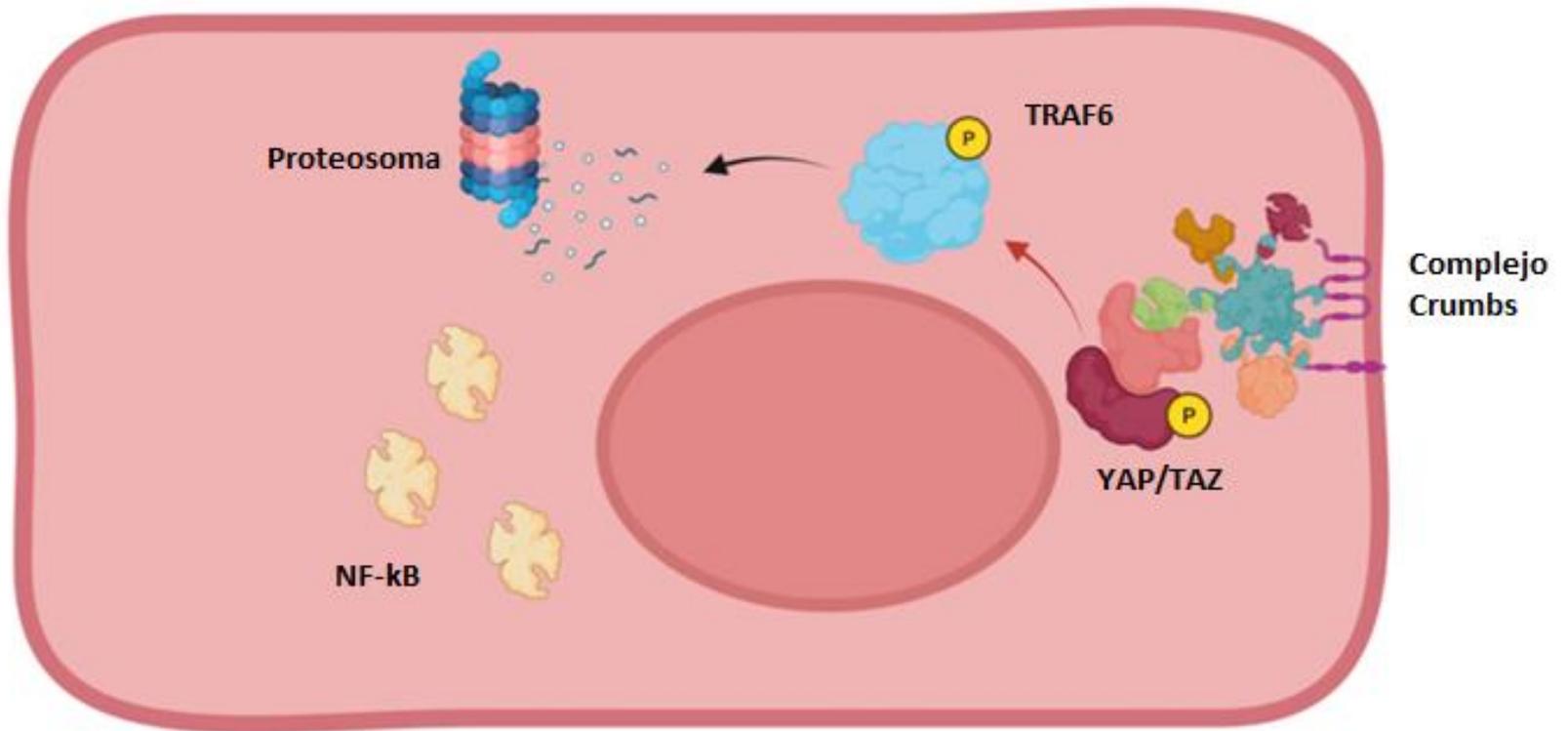




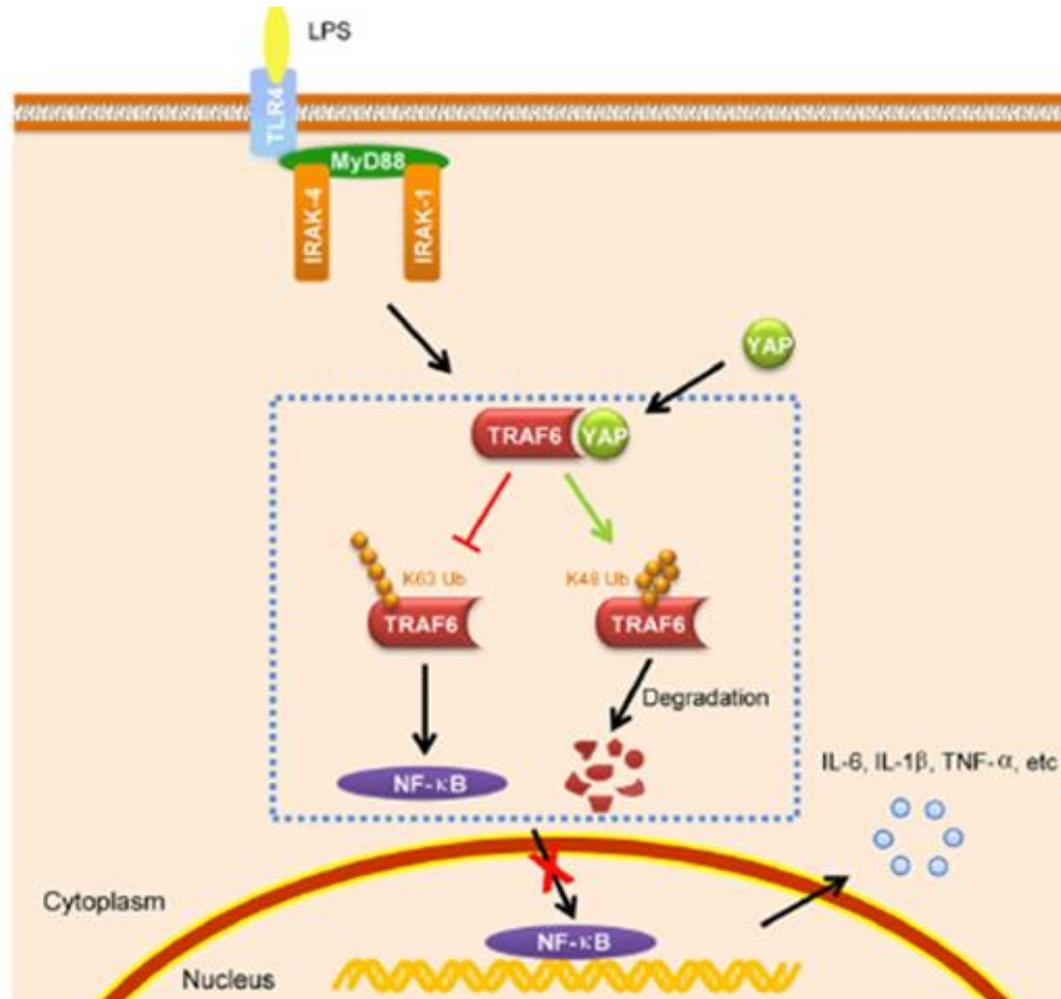
Complejo
CRUMBS



Dominio PDZ

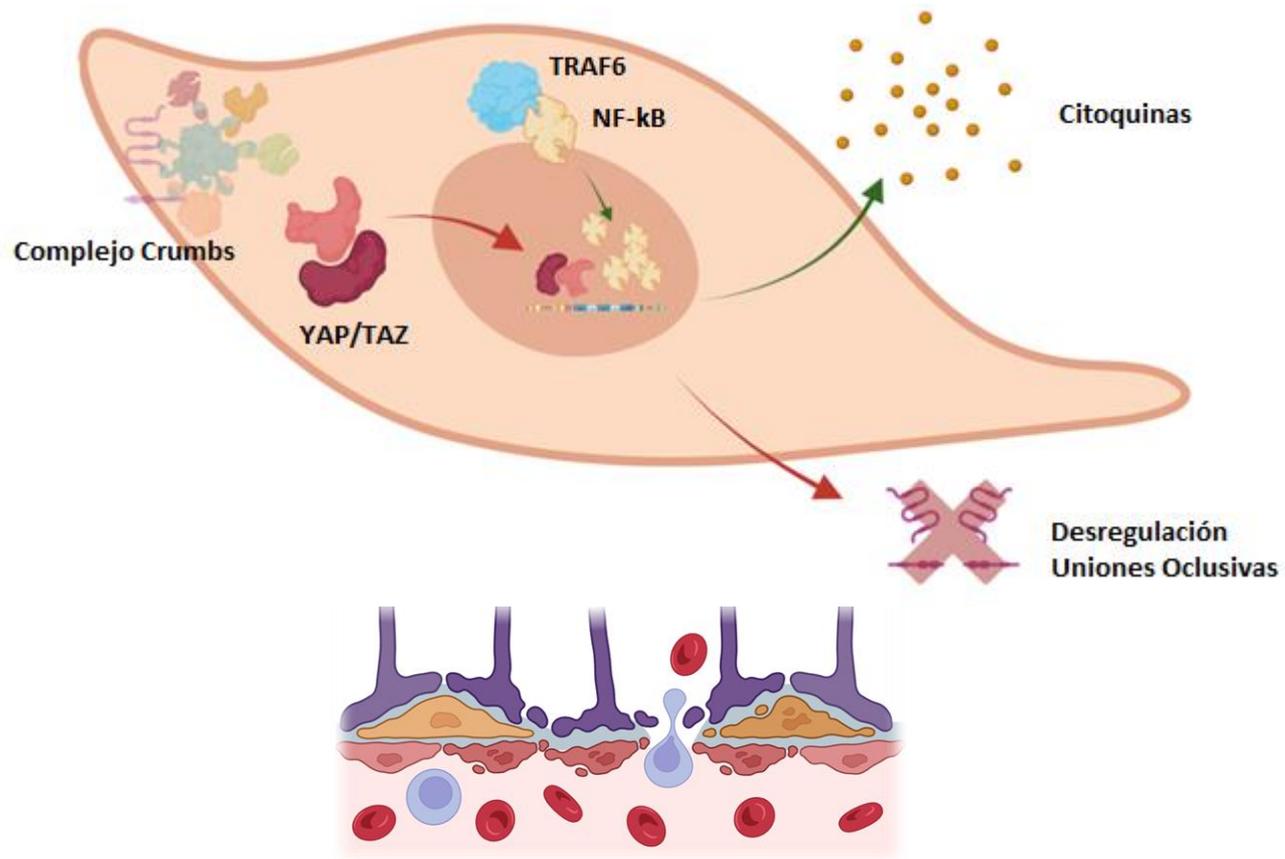


YAP citoplasmático promueve un estado antiinflamatorio, manteniendo la estabilidad de la barrera hematoencefálica

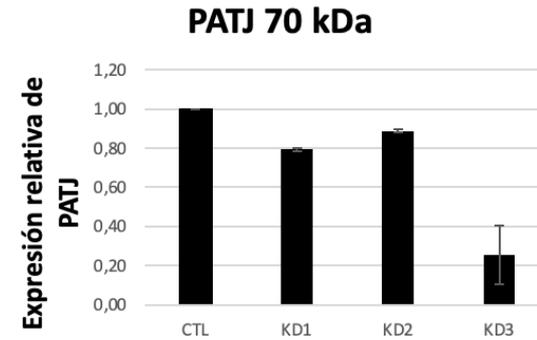
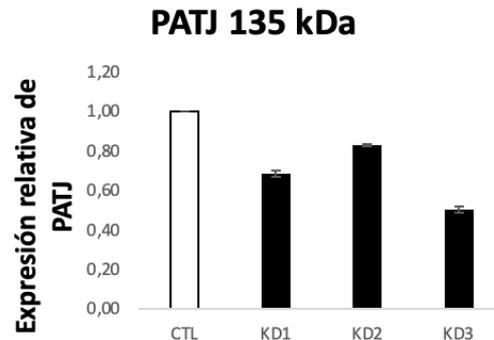
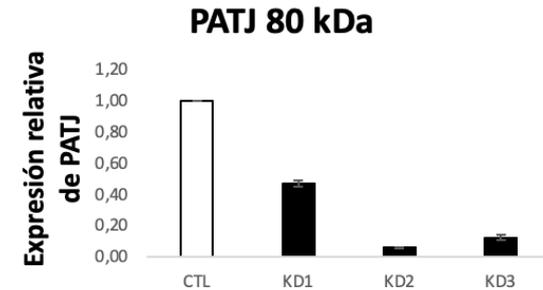
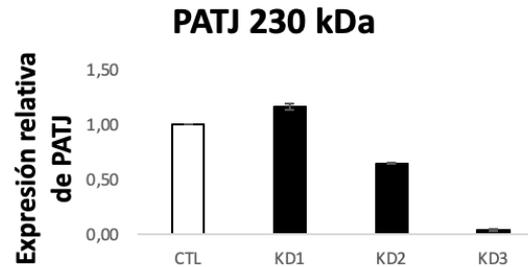
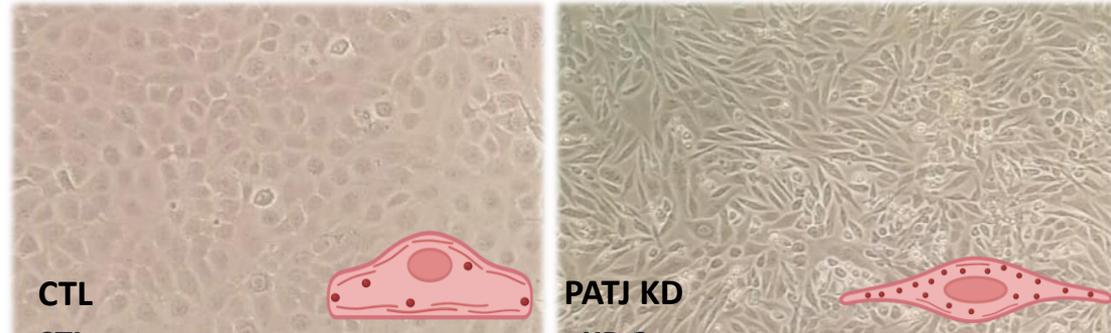
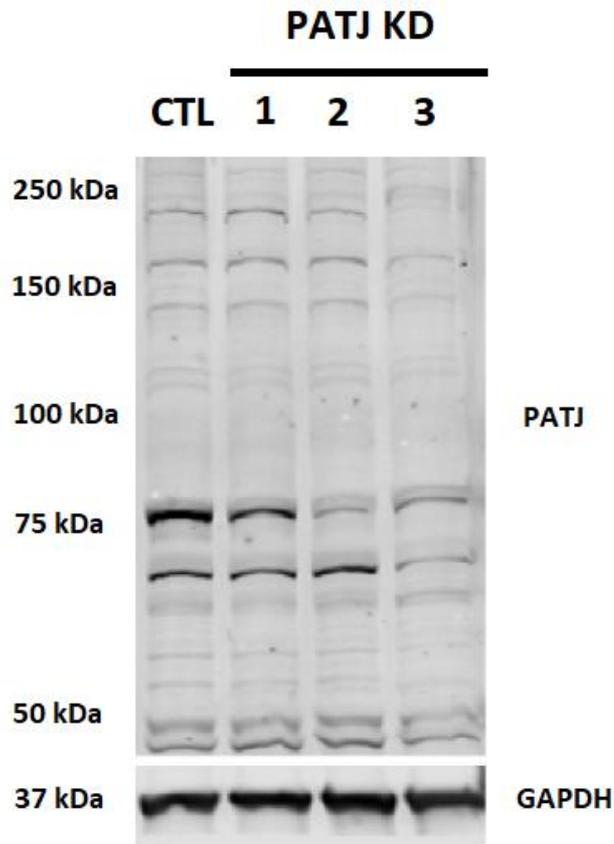


Lv, Y. et al. (2018).

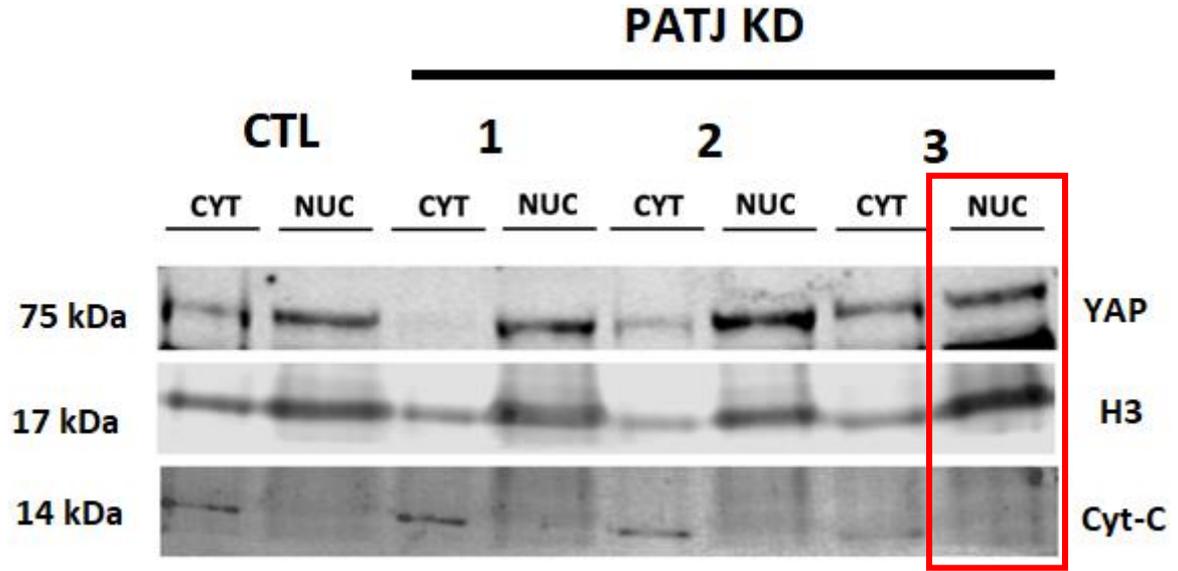
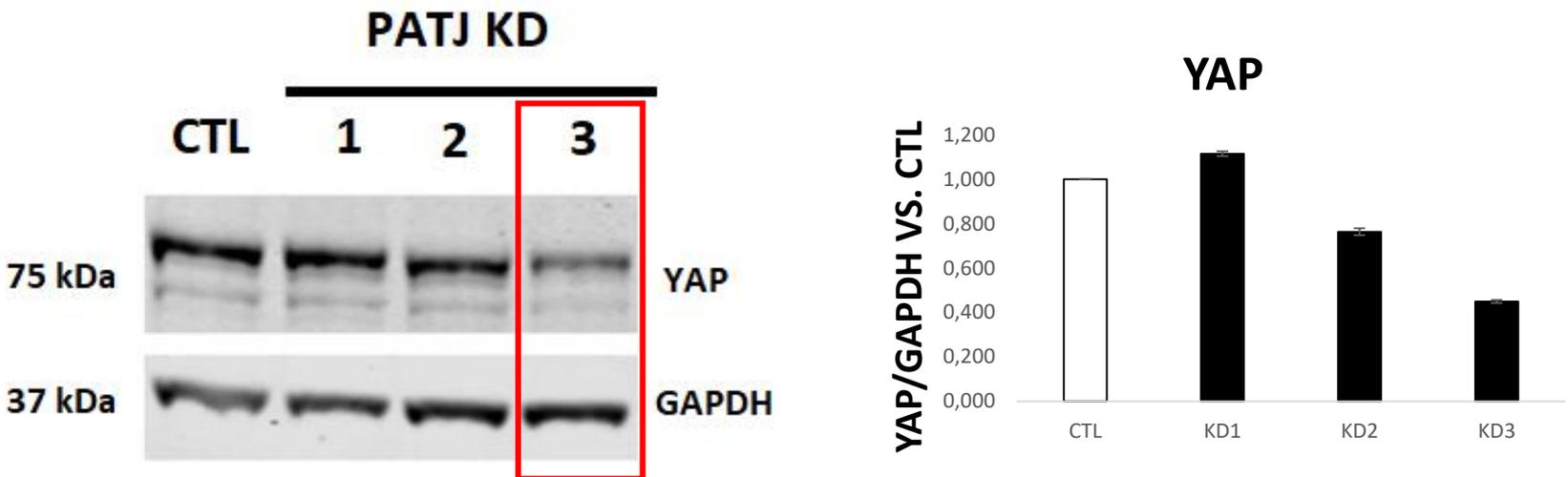
YAP nuclear induce un fenotipo proinflamatorio y facilita la disrupción de la barrera hematoencefálica



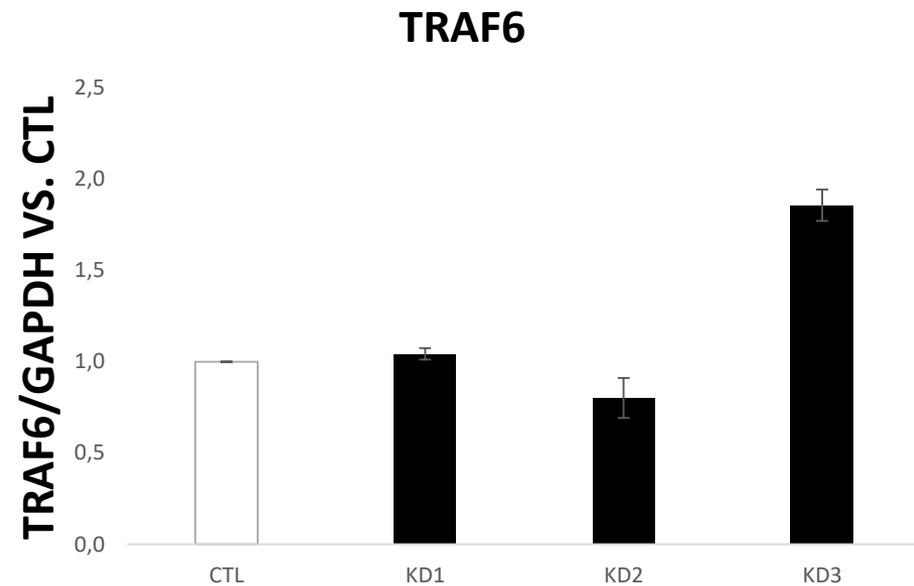
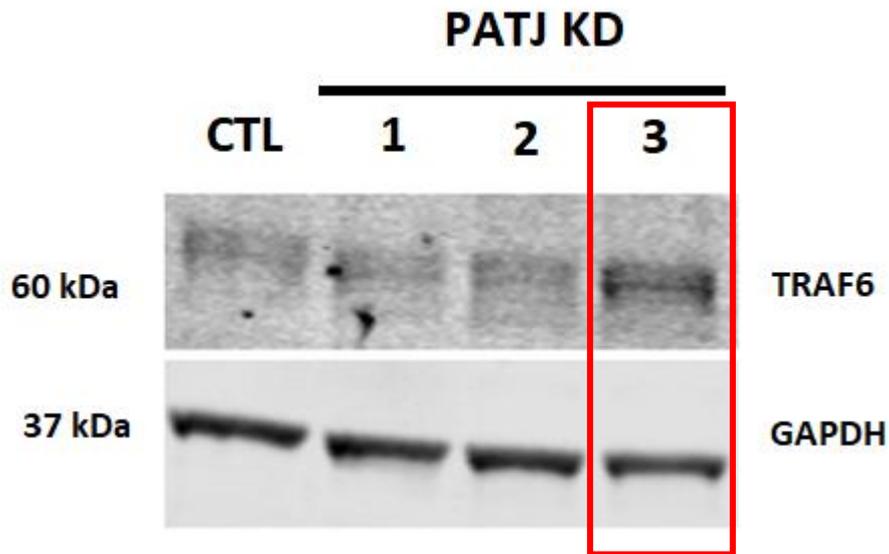
La depleción de *PATJ* en clones de células hCMEC/D3 promueve la transición endotelial-mesenquimal (EndMT)



La depleción del gen *PATJ* reduce la cantidad de YAP citosólico

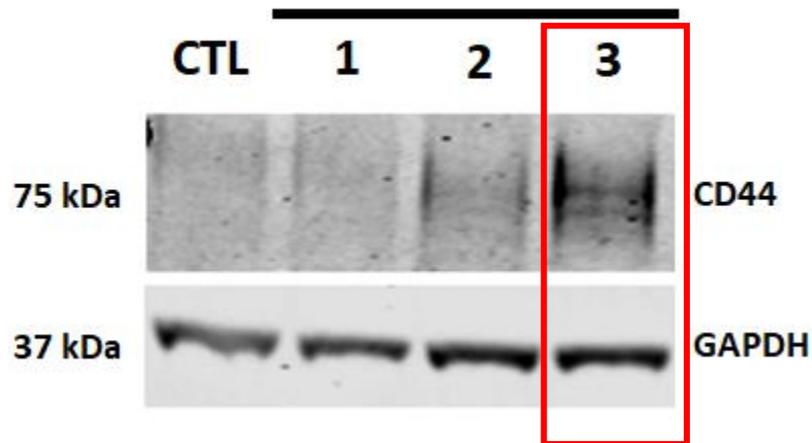


La depleción de YAP aumenta los niveles de TRAF6 en las células *PATJ-KD3*

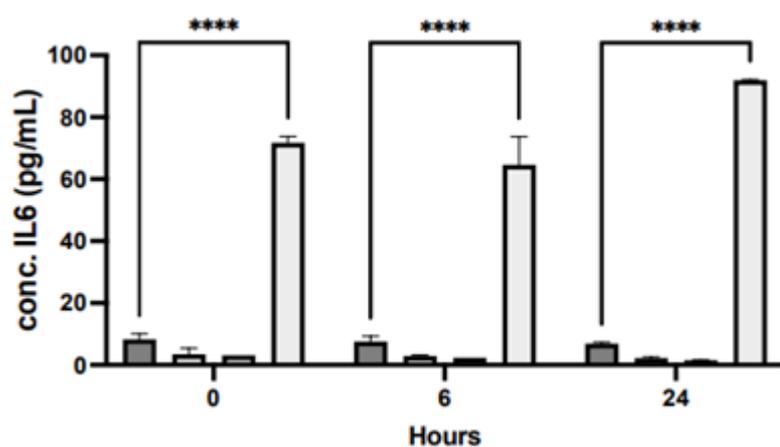
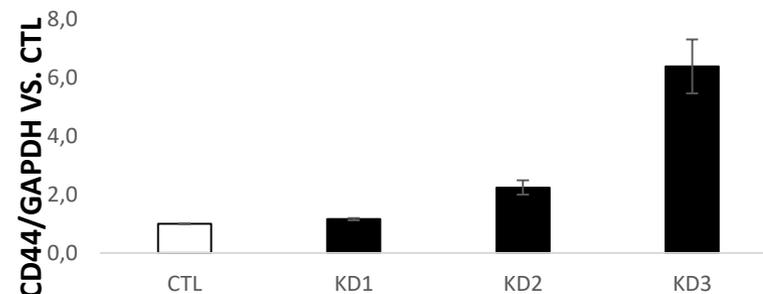


La depleción de PATJ favorece la activación de vías proinflamatorias, induciendo la expresión de selectinas y citoquinas

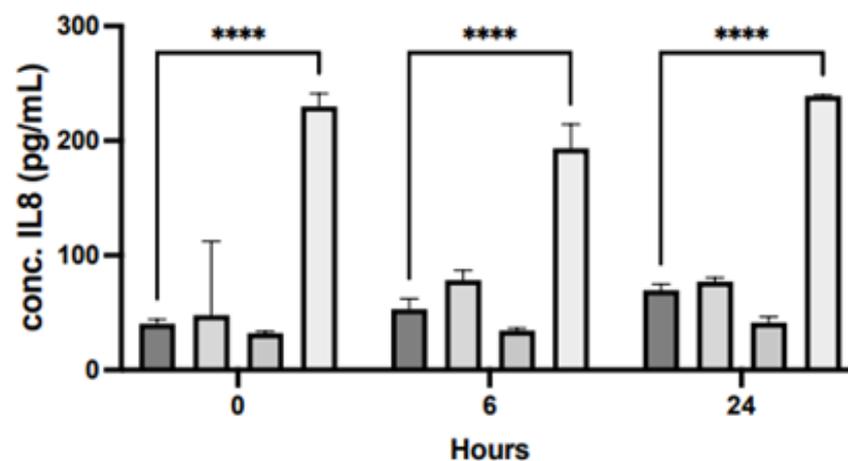
PATJ KD



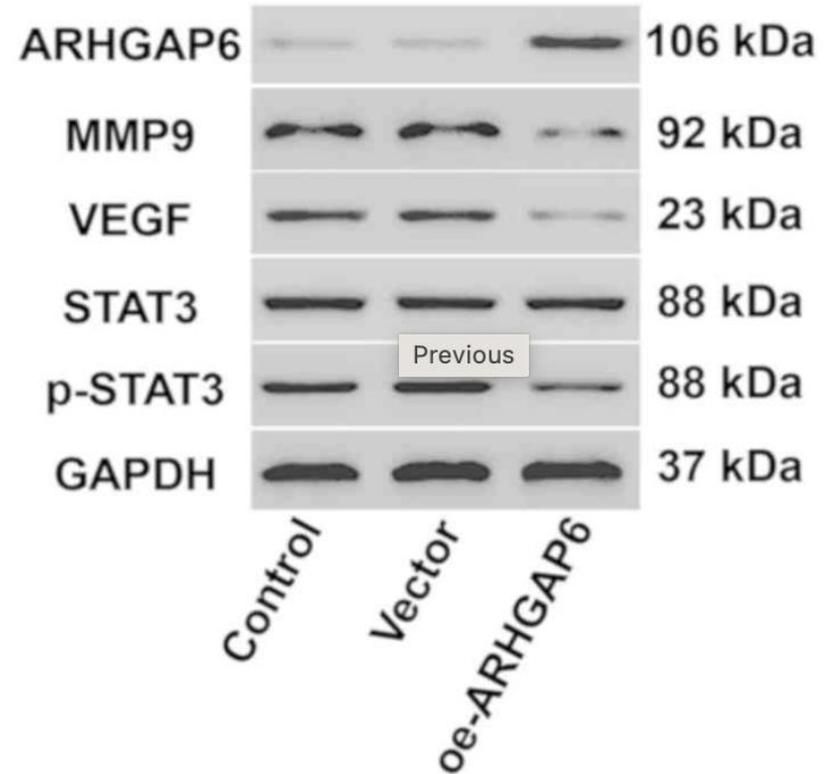
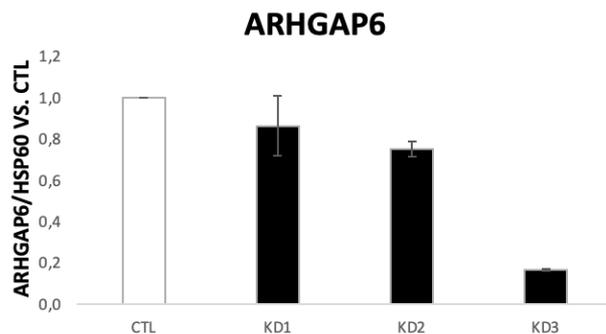
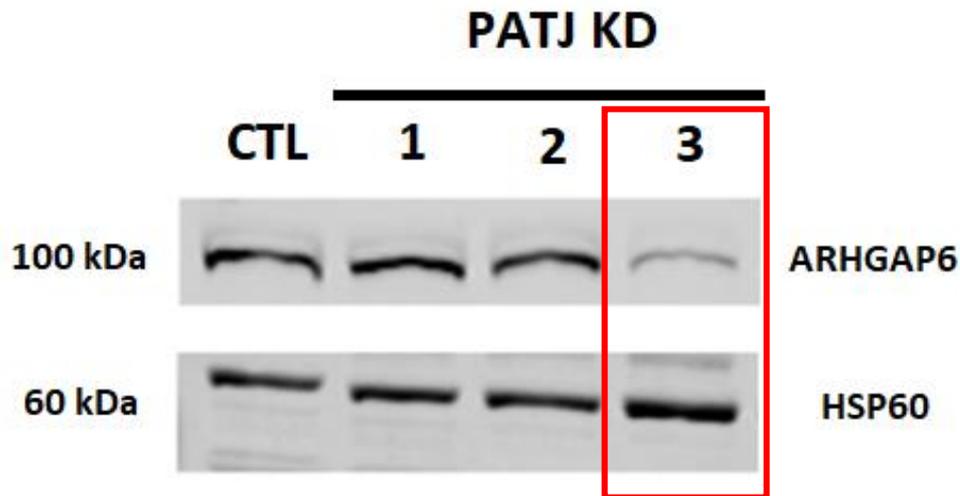
CD44



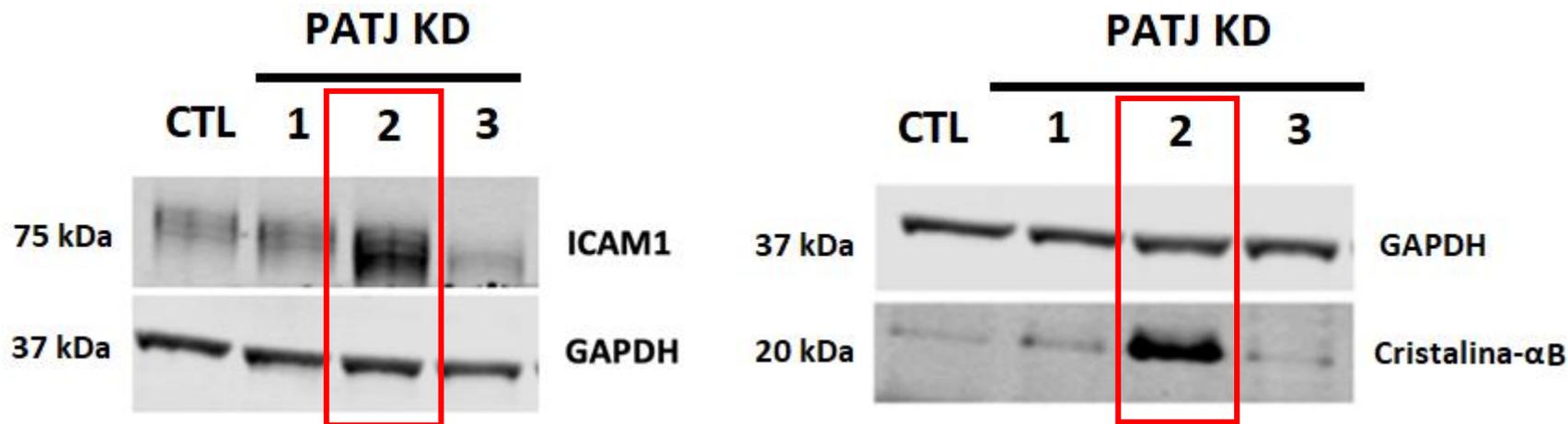
CTL
KD1
KD2
KD3



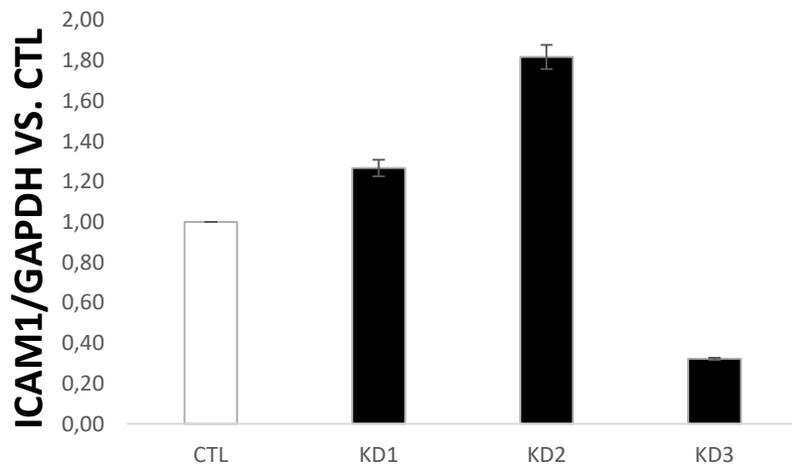
La infra-expresión de ARHGAP6 que observamos en los clones KD3 podría estar asociada al estado proinflamatorio



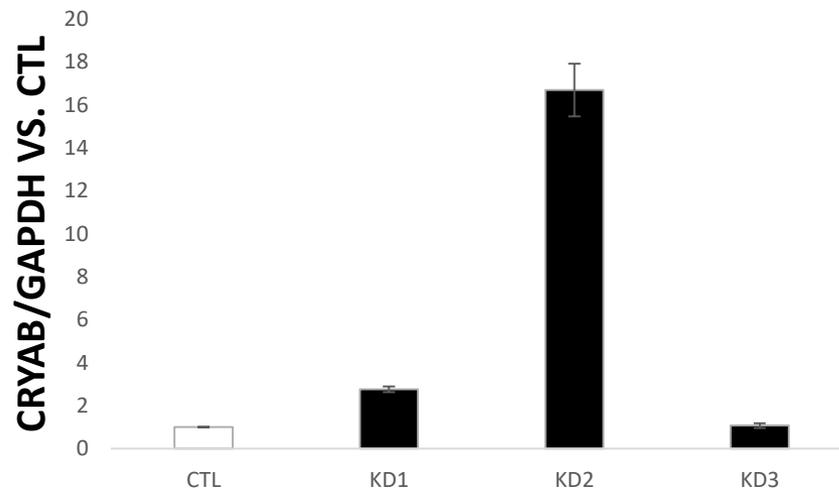
La depleción intermedia de PATJ del KD2 aumenta los niveles de ICAM1 y Cristalina- α B

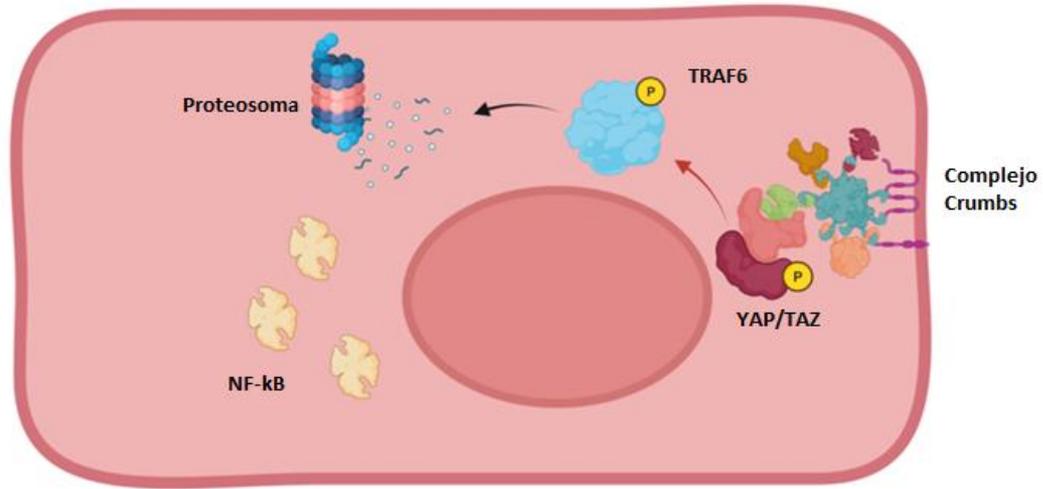


ICAM1

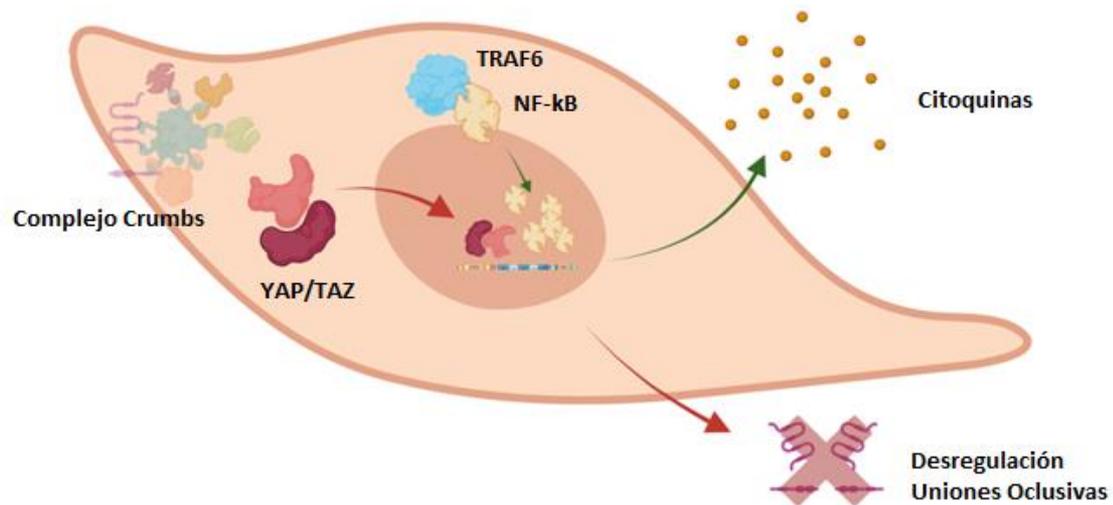


CRYAB





EndMT





AGRADECIMIENTOS

Toni Capó Quetglas
Guillem Cañellas
Aina Medina Dols
Jaume Llinàs
Laura Nadal
Lluís Gómez
Rosa Díaz
Carmen Jiménez
Silvia Tur
Jerònia Lladó
Gabriel Olmos
Cristòfol Vives Bauzà (IP)