Uncropped Blots

Glucocorticoid receptor dysfunction as a biomarker and target for bile acid therapy in SCA3/MJD

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Important Notice:

One of the specificities of the design of our experiments that require Western Blots is that sample loading is made in sets of three (as we mostly have 3 experimental groups, WT, TG and TG TUDCA). However, the sample order is randomly chosen for each experiment. Therefore, each individual experiment has a different sample organization, which is indicated for each individual blot. Purple rectangles indicate the blot shown in the main/supplemental figures.



<u>Set No. 1</u>



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Figure 3B	WT	TG TUDCA	TG			
<u>Set No. 2</u>	Samples are organized in sets of three, from left to					
	right, as indicated above.					







Figure 6C











WT	TG TUDCA	TG









Four biological replicates of each group are included in each gel

















Efficiency of the Cellular Fractionation Protocol

Immunobloting of WT mouse brainstem after cellular fractionation of cytoplasm (showing the presence of actin and absence of H3) and nucleus (showing the presence of H3 and absence of actin)

Ladder, S3, SNF, S3, SNF, Ladder, S3, S3, SNF, SNF



S3 – cytoplasmic fraction SNF – nuclear fraction

Figure 6H





Unbound fraction

Total protein staining WT1 TG1 WT2 TG2 WT3 TG3

Anti-GR probing







A 40% increase in image contrast was applied from the original blots

Co-immunoprecipitation of ATXN3; Immunoblot with GR



Co-immunoprecipitation of ATXN3 (<u>rabbit</u> anti-MJD1); Immunoblot with ATXN3 (<u>mouse</u> anti-ATXN3 1H9)











CTRL	SCA3	CTRL	SCA3	CTRL	SCA3	CTRL	CTRL
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Figure S6E





Figure S7B

Belative protein levels/actin





tctin	2.0							
vels/a	1.5-	٥						
rotein lev	1.0-	Ţ]	。 丁	a			
lative p	0.5-							
æ	0.0						-	
	ωw	т	тG		TG 1	TUDO	A	

ΝUd

WT	TG	TG TUDCA
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Figure S7D

3.5 3.0-9.2.5-1.5-0.0-0.5-0.0 WTTG
TUDCASamples are organized in
sets of three, from left to
right, as indicated above.



Figure S7E







Figure S9B





