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BRCA1, Fto

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	∽Abstract		PubMed 🖈				
			Gene (5) Species (2)				
	Berardinelli-Seip congenital lipodystrophy type 2 (BSCL2) is the most severe form of human lipodystrophy, characterized by an						
	almost complete loss of adipose		aused by loss-of-function mutations in the				
	BSCL2/SEIPIN gene, which is	BSCL2 human gene	y expressed in the adipose tissue. The				
	physiological function of SEIPIN i	Berardinelli-Seip congenital lipodystrophy 2 (seipin)	ated. Here, we generated adipose-specific				
	Seipin knock-out mice (ASKO m		ed lipid droplets, reduced lipolysis, adipose				
	tissue inflammation, progressive I	Activity in last 12 months	resistance and hepatic steatosis. Lipidomic				
	and microarray analyses revealed	View report	ceramides in ASKO adipose tissue, as well				

as increased endoplasmic reticulum stress. Interestingly, the ASKO mice almost completely phenocopy the fat-specific Ppary knock-out (FKO_Y) mice. Rosiglitazone treatment significantly improved a number of metabolic parameters of the ASKO mice, including insulin sensitivity. Our results therefore demonstrate a critical role of SEIPIN in maintaining lipid homeostasis and function of adipocytes, and reveal an intimate relationship between SEIPIN and PPARy.

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