



39% of males 2.7% in general population **14x enriched**

30% of females 0.7% in general population **42x enriched**

Preliminary Neuroimaging Results



The

A consistent cerebellar phenotype: volumetric reduction

Arachnoid cysts



-most often described as "benign"

-in **1113 healthy young adults** who were scanned as part of the Human Connectome Project, **11** were found to have arachnoid cysts in the "posterior fossa"

-in 23 subjects with the 3q29 deletion, we identified 7 posterior fossa arachnoid cysts

-while these are considered benign, the high rate of these findings in our sample is surprising, and may be an important clue about what the 3q29 deletion is doing.

The 3q29 Deletion Mouse



3q29 mouse has deficits in spatial learning and memory, social interaction, acoustic startle, and amphetamine sensitivity

Rutkowski et al, Mol Psychiatry, 2019

lhe

3029

Cerebellar deficits are pres 3q29 deletion mouse mode











Esra Sefik Neuroscience PhD Candidate









Cerebellum is emerging as a site of intense interest for SZ, ASD

Pubmed search for "cerebellum autism" = 991 citations

Pubmed search for "cerebellum schizophrenia" = 1291 citations

The Cerebellum, Sensitive Periods, and Autism



Original Article | Published: 16 May 2017

Cerebellar volume and cerebellocerebral structural covariance in schizophrenia: a Dysfunctional cerebellar Purkinje cells contr**multisite mega-analysis of 983 patients**

> T Moberget 🖂, N T Doan, D Alnæs, T Kaufmann, A Córdova-Palomera, T V Lagerberg, J Diedrichsen, E Schwarz, M Zink, S Eisenacher, P Kirsch, E G Jönsson, H Fatouros-Bergman, L Flyckt, KaSP, G Pergola, T Quarto, A Bertolino, D Barch, A Meyer-Lindenberg, I Agartz, O A Andreassen & L T Westlye

