NEWS

NeuroDev retrospective; repetitive behaviors in fragile X mice

BY **MICHAEL FERGENSON**

6 AUGUST 2023

The **Broad Institute** linked to its **article**, “A look back at the first year of NeuroDev,” published on its site 20 July. *Spectrum* **covered initial findings** from NeuroDev on 15 March.

Post by @broadinstitute

View on Threads

Francesco Longo of the University of Gothenburg described his **study**, “Cell-type-specific disruption of cortico-striatal circuitry drives repetitive patterns of behavior in fragile X syndrome model mice,” published in *Cell Reports* 27 July.

Excited to share that our paper on cell-type specific changes in the striatal medium spiny neurons underlying the expression of RRBs in FXS mice is finally online **@CellReports**. Thanks to team members from **@KlannLab**, **@CarterAG**, **@NicTritsch**, and **@BagniLab** for their contribution!1/6 **https://t.co/99YtMx1q9d pic.twitter.com/cNAEA3lOLA**

— Francesco Longo (@fran_longo17) **August 1, 2023**

Saroj Kumar Sah of Yale University described his **study**, “Deficiency in the neural cell adhesion molecule 2 (NCAM2) reduces axonal levels of beta-site amyloid precursor protein cleaving enzyme 1 (BACE1), affects axonal organization in the hippocampus, and leads to behavioral deficits,” published in *Cerebral Cortex* 29 July.

Nicole Teaney of Mustafa Sahin’s lab at Harvard University and Boston Children’s Hospital shared her **study**, “Increased degradation of FMRP contributes to neuronal hyperexcitability in tuberous sclerosis complex,” published in *Cell Reports* 25 July.

> I am incredibly proud to be a part of this team as we work to advance research surrounding rare neurodevelopmental disorders. And it’s a major milestone in my career as a young scientist: first published paper! **#raredisease #neuroscience https://t.co/YAug6D5naX**
>
> — Nicole Teaney (@nicole_teaney) **August 2, 2023**

Jorune Balciuniene of PerkinElmer linked to her **study**, “At-risk genomic findings for pediatric-onset disorders from genome sequencing vs medically actionable gene panel in proactive screening of newborns and children,” published in *JAMA Network Open* 31 July.

Öyküm Kaplan Arabaci of the University of Oslo described her **study**, “Antidepressants escitalopram and venlafaxine up-regulate BDNF promoter IV but down-regulate neurite outgrowth in differentiating SH-SY5Y neurons,” published in *Neurochemistry International* 13 July.

Anthony Ramnauth of the Lieber Institute for Brain Development linked to the **study** “Voltage-Seq: all-optical postsynaptic connectome-guided single-cell transcriptomics,” published in *Nature Methods* 20 July.

Wai Kit Chan of the University of Edinburgh described his **preprint**, “Loss of PAX6 alters the excitatory/inhibitory neuronal ratio in human cerebral organoids,” posted on bioRxiv 1 August.

> We extend our studies in understanding the role of PAX6 in neurodevelopment using human cerebral organoids!
>
> Similar to mice, PAX6 loss results in ectopic inhibitory neurons but data indicates possible species-specific differences.
>
> Short report**https://t.co/1ouAO4DI8W pic.twitter.com/rpy8MA5kAq**
>
> — Wai Kit (Calvin) Chan (@cwkcalvin) **August 2, 2023**

Vassilis Sideropoulos of University College London linked to his team's **study**, "Anxiety, concerns and COVID-19: Cross-country perspectives from families and individuals with neurodevelopmental conditions," published in the *Journal of Global Health* 28 July.

> Excited to share our collaboration with 50+ brilliant researchers from across the globe! Our paper in **@JGLOBHEALTH** explores **#anxiety** from a cross-country perspective in parents and their **#neurodivergent** children. Full paper ???? **https://t.co/3I9Fix9Uxp #mentalhealth #globalhealth**
>
> — Vassilis Sideropoulos (@VassilisSide) **July 31, 2023**

Carla Mazefsky and **Kelly Beck**, both of the University of Pittsburgh, commented on "**Emotion dysregulation in autism with Carla Mazefsky**," published in *Spectrum* 1 August.

> I was nervous with this coming out today. It's more about me/my path vs. the research per se (like others in Synaptic). But it was a fun trip down memory lane to listen and reflect on my career. I'm lucky that (despite the stress) I do love what I do. **@PittREAACT @PittPsychiatry https://t.co/xabtibOCqU**
>
> — Carla Mazefsky (@carlamazefsky) **August 1, 2023**

> Really enjoyed listening to **@carlamazefsky**'s path on this podcast. **https://t.co/A9ELqp2WBU**
>
> — Kelly Beck, Ph.D. (@mindfulbeck) **August 1, 2023**

The **Autism Science Foundation** linked to "**Amy Wetherby: Impatient for progress**," published in *Spectrum* 26 July.

> Amy Wetherby created tools for screening and early intervention for autism that have been used internationally. She then took these tools a step further and helps families us them in their own homes. What motivates her? Read her profile: **https://t.co/A8EfPLHtBf**
>
> — ASF (@AutismScienceFd) **July 26, 2023**

That's it for this week's Community Newsletter! If you have any suggestions for interesting social posts you saw in the autism research sphere, feel free to send an email to **michael@spectrumnews.org**.

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Cite this article: https://doi.org/10.53053/DVAW3282