

Recent Publications

Yuan Zhang, **M. Rebecca Glineburg**[#], Venkatesha Basrur, Kevin Conlon, Shannon E. Wright, Amy Krans, Deborah A. Hall, Peter K. Todd[#], “Mechanistic convergence across initiation sites for RAN translation in Fragile X associated Tremor Ataxia Syndrome” *Human Molecular Genetics*. 2022 July 21;31(14):2317-2332. [#]corresponding authors.

Chingakham Ranjit Singh*, **M. Rebecca Glineburg***, Chelsea Moore*, Rahul Jaiswal, Sarah Gilaspie, Eric Aube, Ye Zou, Mackenzie Thornton, Ariana Cecil, Madelyn Hilgers, Carlos Escalente, Peter Todd, and Katsura Asano, “Human oncoprotein 5MP1 suppresses general and repeat-associated non-AUG translation via eIF3 by a common mechanism” *Cell Reports*. 2021 July 13;36(2):109376. *These authors contributed equally.

M. Rebecca Glineburg*, Yuan Zhang*, Amy Krans, Elizabeth Tank, Sami Barmada and Peter K Todd, “Enhanced detection of expanded repeat mRNA foci with hybridization” *Acta Neuropathol Commun*. 2021 April 23;9(1):73. *These authors contributed equally.

Rodriguez CM, Wright SE, Kearse MG, Jill M Haenfler, Brittany N Flores, Yu Liu, Marius F Ifrim, **Mary R Glineburg**, Amy Krans, Paymaan Jafar-Nejad, Michael A Sutton, Gary J Bassell, Jack M Parent, Frank Rigo, Sami J Barmada, Peter K Todd. A native function for RAN translation and CGG repeats in regulating fragile X protein synthesis. *Nat Neurosci*. 2020;23(3):386-397. doi:10.1038/s41593-020-0590-1

Alexander E. Linsalata, Fang He, Ahmed M. Malik, **M. Rebecca Glineburg**, Sam Natla, Brittany N. Flores, Amy Krans, Hilary C Archbold, Stephen J. Fedak, Sami J. Barmada, Peter K. Todd, “DDX3X and specific initiation factors modulate FMR1 repeat-associated non-AUG-initiated translation,” *EMBO Reports*, 2019 Sep;20(9): e47498.

M. Rebecca Glineburg, Peter K. Todd, Nicolas Charlet-Berguerand, Chantal Sellier, “Repeat-associated non-AUG (RAN) translation and other molecular mechanisms in Fragile X Tremor Ataxia Syndrome,” *Brain Res.*, 2018 Feb 14; pii: S0006-8993(18)30064-7.

Katelyn M. Green, **M. Rebecca Glineburg***, Michael G. Kearse*, Brittany N. Flores, Alexander E. Linsalata, Stephen J. Fedak, Aaron C. Goldstrohm, Sami J. Barmada, and Peter K. Todd, “RAN translation at *C9orf72*-associated repeat expansions is selectively enhanced by the integrated stress response,” *Nature Communications*, 2017 Dec 8;8(1):2005. (*These authors contributed equally.)