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Dr. Konopka is an Associate Professor of Neuroscience and the Jon Heighten Scholar in Autism Research at UT Southwestern Medical Center. Dr. Konopka received dual bachelor of science degrees in Brain and Cognitive

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Sciences and Biology from MIT and completed her Ph.D. in Neurobiology at Harvard University.

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mental retardation and synaptic plasticity. in CM Powell & LM Monteggia (eds), The autisms: Molecules to model systems. Oxford University Press, pp. 126-146.

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tremendous breakthroughs in the past few decades. A multitude of relatively rare mutations have been identified to explain around 15 % of autism cases with many of these genetic causes systematically examined in animal models. This marriage of human genetics and basic neurobiology has led to major advances in our understanding

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of how these genetic mutations alter ...

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causes of autism and clarifies what is known at the molecular, cellular, and circuit levels.

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Molecular Basis of Memory and Cognitive Disorders. Ostroff LE, Santini E, Sears R, Deane Z, Kanadia RN,

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LeDoux JE, Lhakhang T, Tsirigos A, Heguy A, Klann E. (2019) Axon TRAP reveals learning-associated alterations in cortical axonal mRNAs in the lateral amygdala. eLife.

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Chapter 8 discusses how Fragile X syndrome (FXS) is caused by the absence of the RNA-binding protein fragile X mental retardation protein (FMRP). FMRP is highly expressed in the brain and gonads, the two organs mainly affected in patients with the syndrome. Functionally, FMRP belongs to the family of RNA-binding proteins, shuttling from

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John D. Herrington, PhD, is a Psychologist in the Department of Child and Adolescent Psychiatry and Behavioral Sciences at Children's

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Provides a roadmap to many of these  
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