

Accepted Manuscript

Research report

Aberrant RNA Translation in Fragile X Syndrome: From FMRP Mechanisms to Emerging Therapeutic Strategies

Anwesha Banerjee, Marius F. Ifrim, Arielle N. Valdez, Nisha Raj, Gary J. Bassell

PII: S0006-8993(18)30194-X

DOI: <https://doi.org/10.1016/j.brainres.2018.04.008>

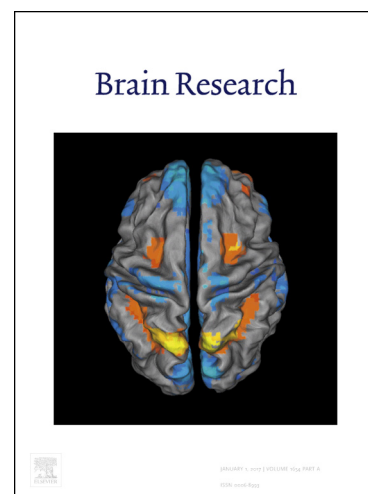
Reference: BRES 45748

To appear in: *Brain Research*

Received Date: 15 January 2018

Revised Date: 30 March 2018

Accepted Date: 6 April 2018



Please cite this article as: A. Banerjee, M.F. Ifrim, A.N. Valdez, N. Raj, G.J. Bassell, Aberrant RNA Translation in Fragile X Syndrome: From FMRP Mechanisms to Emerging Therapeutic Strategies, *Brain Research* (2018), doi: <https://doi.org/10.1016/j.brainres.2018.04.008>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Title Page

Aberrant RNA Translation in Fragile X Syndrome: From FMRP Mechanisms to Emerging Therapeutic Strategies

Anwesha Banerjee^{1*}, Marius F. Ifrim¹, Arielle N. Valdez¹, Nisha Raj¹,
Gary J. Bassell^{1,2*},

¹*Department of Cell Biology, ²Department of Neurology, Emory University School of Medicine, Atlanta
GA 30322, USA*

*correspondence:

Anwesha Banerjee:
Emory University School of Medicine, Whitehead Biomedical Research #405E; 615 Michael St.
Atlanta, GA 30322
Tel (972) 742 9178
Email: anwesha.banerjee@emory.edu

Gary J. Bassell:
Emory University School of Medicine, Whitehead Biomedical Research #405E; 615 Michael St.
Atlanta, GA 30322
Tel (404) 727 3772
FAX (404) 727 0570
Email: gary.bassell@emory.edu

Highlights:

- Mechanisms of FMRP mediated translation and RNA dysregulation in fragile x syndrome
- FMRP granules and FMRP mediated local translation
- Genetic and pharmacological intervention to rescue FXS associated molecular and behavioral phenotype in Fragile X animal models
- Use of human pluripotent stem cells to model Fragile X Syndrome and test therapeutic strategies

Download English Version:

<https://daneshyari.com/en/article/8839743>

Download Persian Version:

<https://daneshyari.com/article/8839743>

[Daneshyari.com](https://daneshyari.com)