



ENVIRONMENTAL  
HEALTH TRUST



# Fetal Cell Phone Exposure Affects Behavior

National Press Club  
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November 12, 2012

# Fetal Radiofrequency Radiation Exposure From 800-1900 Mhz-Rated Cellular Telephones Affects Neurodevelopment and Behavior in Mice

- [Tamir S. Aldad,](#)
- [Geliang Gan,](#)
- [Xiao-Bing Gao](#)
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- **Scientific Reports** 2, Article number: 312 doi:10.1038/srep00312
- Received 13 July 2011 Accepted 17 February 2012 Published 15 March 2012 number: 312 doi:10.1038/srep00312R

# Fetal Programming Evaluated

Radiation exposed 33 pregnant mice

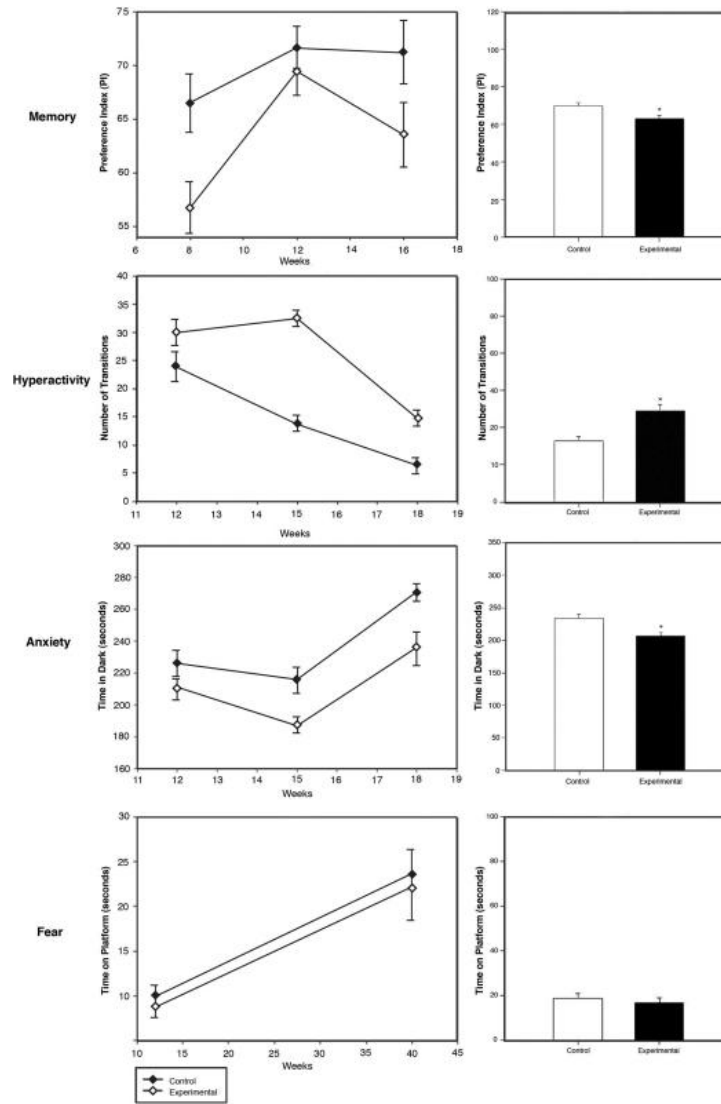


42 pregnant controls

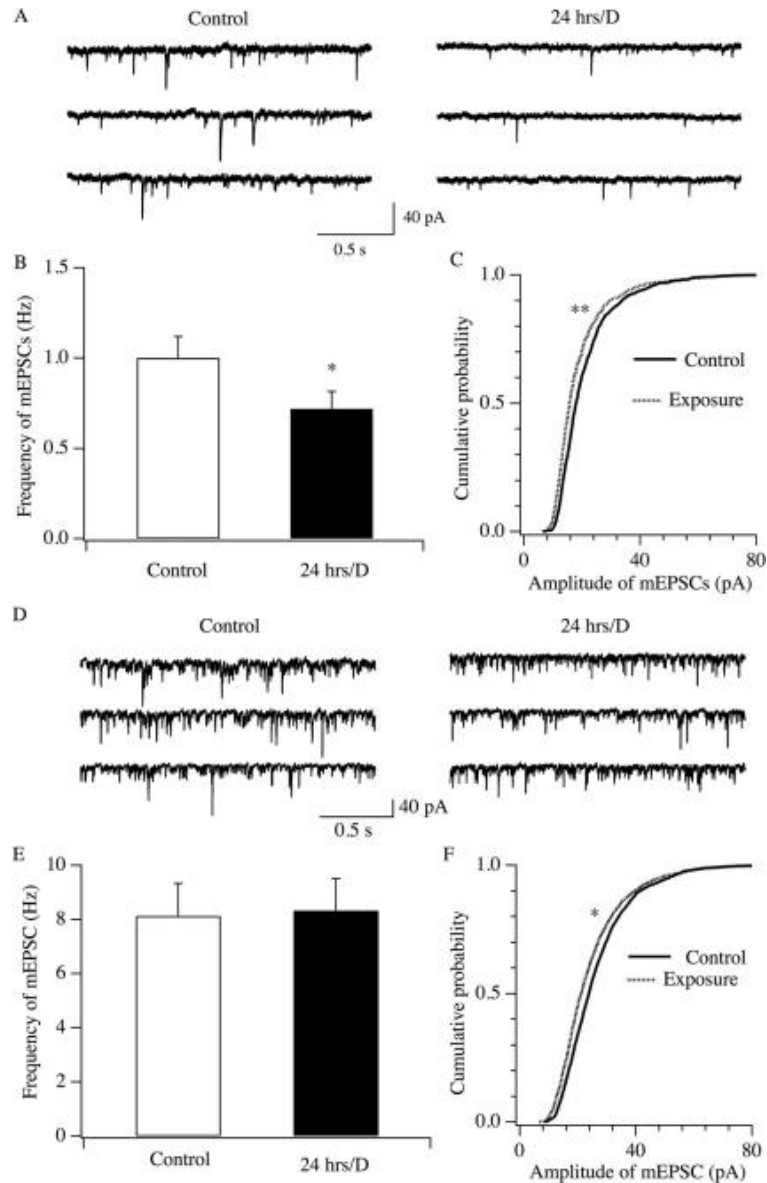


- A muted and silenced 800–1900 Mhz cellular phones with a SAR of 1.6 W/kg was used.
- The phones were positioned above each cage over the feeding bottle area at a distance of 4.5–22.3 cm from each pregnant mouse.
- Mice exposed as a fetus were tested as adults.

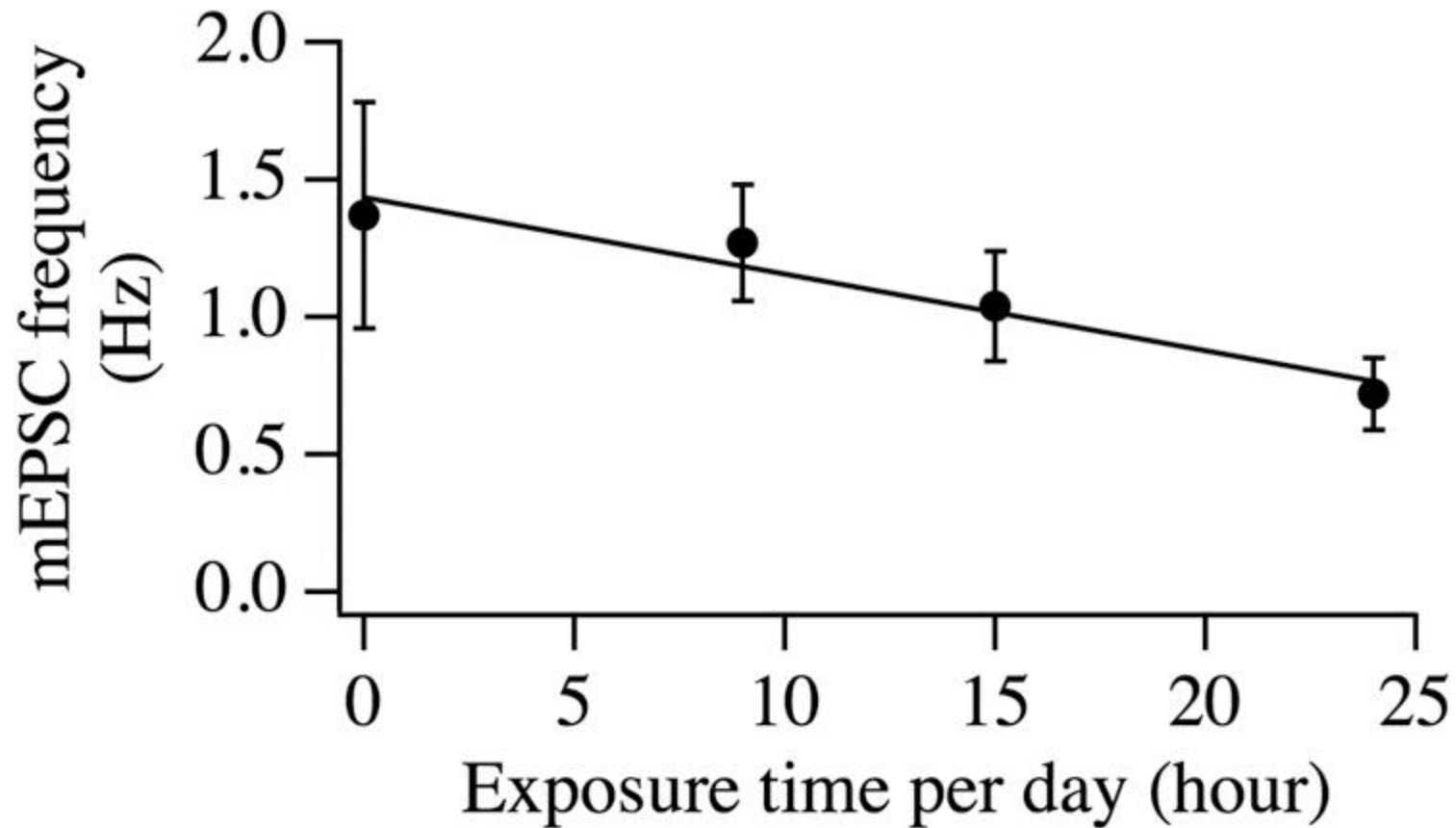
# Hyperactivity, Diminished Memory and Reduced Anxiety



# Altered Synaptic Efficiency



# Diminished Effect with Decreased Exposure



# Human Implications





# Diethylstilbestrol...1947

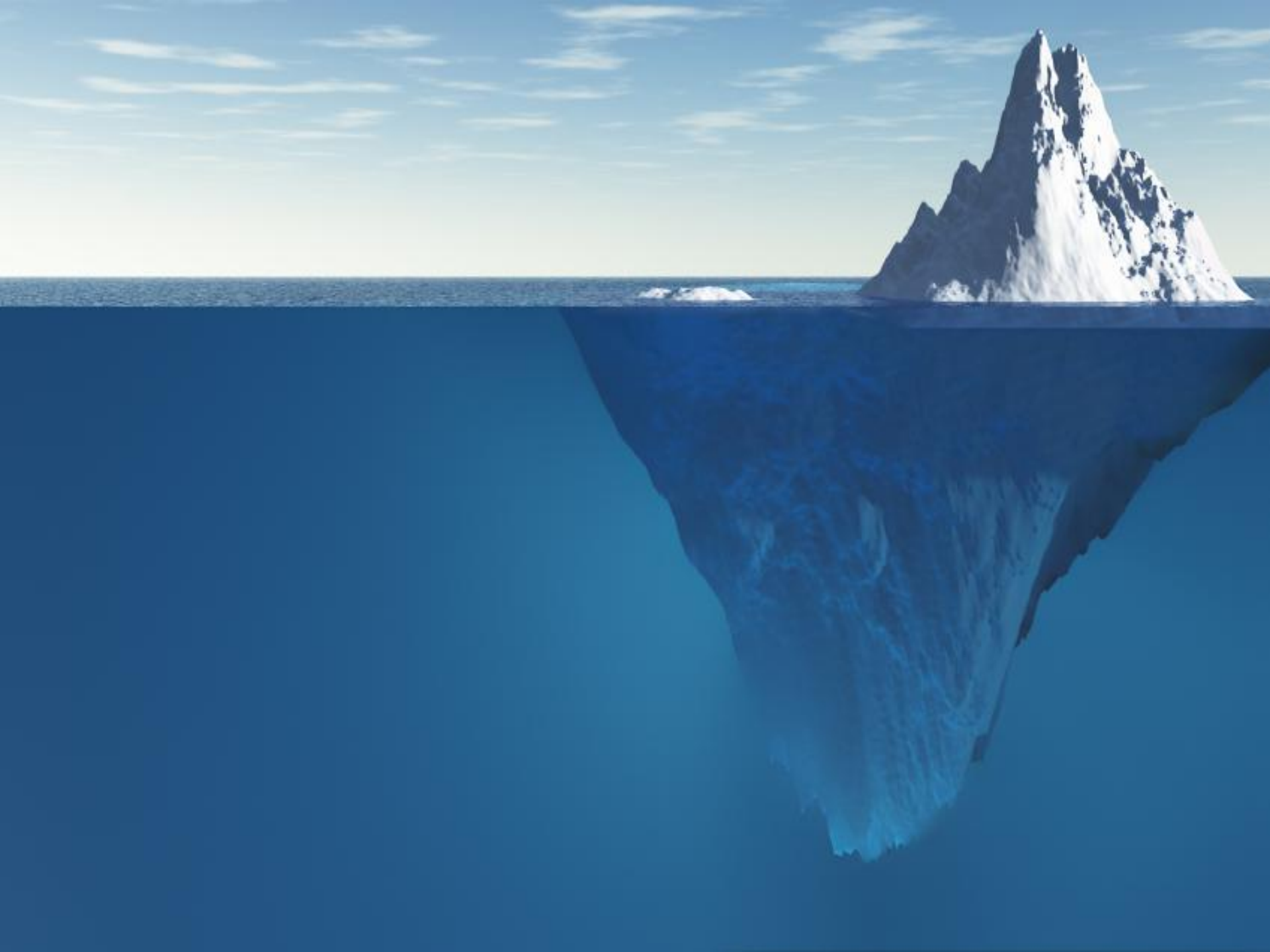


## ORIGINAL ARTICLE

Adenocarcinoma of the Vagina — Association of Maternal Stilbestrol Therapy with Tumor Appearance in Young Women

Arthur L. Herbst, M.D., Howard Ulfelder, M.D., and David C. Poskanzer, M.D.

N Engl J Med 1971; 284:878-881 [April 22, 1971](#)



# Fetal Origins of Health and Disease