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Ancestral Environmental Exposure Develops Stress Response in Coming Generations

Submitted by [Nanette Dupree](#) on Tue, 05/22/2012 - 06:52



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As per a new research, it has been suggested that exposure to chemicals tends to bring about a change in rats. Nevertheless, it has been discovered that these changes have been genetically transferred to multiple generations.

It has been demonstrated that the gestating female rats were subjected to vinclozolin, which is a potential fungicide used for [fruits](#) and [vegetables](#).

Later on offspring of third generation rats were examined of their behavioral activities, which demonstrated that they were more sensitive to [stress](#) and were also more anxious, in comparison to descendants of those rats, who were not exposed to fungicide.

David Crews, Co-Author of the study and a researcher at [University of Texas](#) subjected that the experimental analysis reports obtained after examining rats, also stays true for humans, as these animal models are a replica of human system.

He emphasized that almost three generations have passed, since the beginning of chemical revolution and exposure of humans to several different kinds of toxins in daily life.

Michael Skinner, co-author and a researcher at [Washington State University](#), said, "The ancestral exposure of your great grandmother alters your brain development to then respond to stress differently".

He asserted that they were unaware of the fact, until this study that ancestral environmental exposure could lead to the development of stress response in younger generations.

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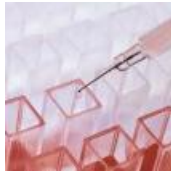
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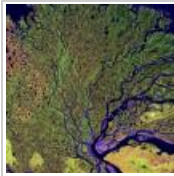
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