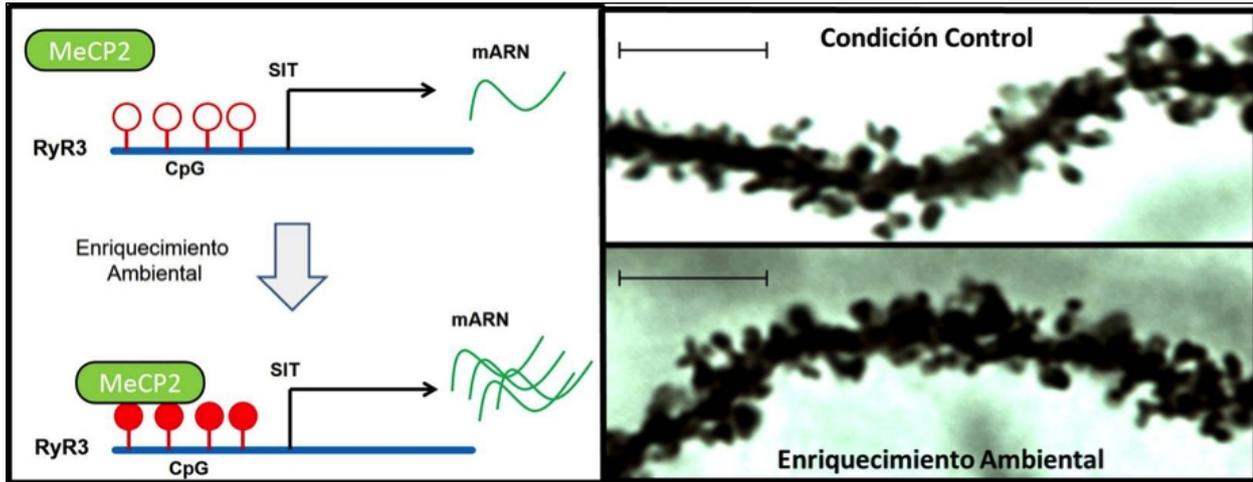


BEYOND THE INHERITANCE

ENVIRONMENTAL ENRICHMENT GENERATES CHEMICAL CHANGES IN DNA

Researchers from the [laboratory of Biology](#) performed an experiment showing that the effects of the exposure to an enriched environment are recorded as chemical changes in the DNA and how these modifications favor the experience-dependent learning process.

This recently published work is part of the debate aimed to establish if our characteristics are genetically determined or if these are acquired from our environment depending on our experiences. In this context, the research team led by [Dr. Bredford Kerr](#), from CECs Biology Lab, investigated how the information is acquired from the environment and how these characteristics manage to intrude into the intimacy of our genome and become part of our biology. To this end, mice were exposed to an enriched environment with toys, mazes and objects that were daily changed, and were compared to mice kept in a standard environment. The results from these experiments were recently published in [Frontiers in Molecular Neuroscience](#).



88 <https://doi.org/10.3389/fnmol.2017.00088>