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Epigenetic changes in human cells in response to chronic citalopram treatment

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To test the hypothesis that commonly-used pharmaceutical drugs might cause epigenetic changes, Human hN2 neurons and HEK-293 cells were cultured in the presence of 10 μ M citalopram for 10 days and genome-wide epigenetic analysis was subsequently performed using Illumina's Infinium Human Methylation 450 Bead Chip arrays. DNA methylation changes were detected in numerous genes and non-coding regions compared to controls.

Biography

Antonei B Csoka completed his PhD at the University of Debrecen, Hungary, and Postdoctoral studies at Brown University and the University of Pittsburgh, USA. His work is focused on epigenetics and it's applications to human health.

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