



Cholinergic Stress and Anxiety Signals involve Alternative Splicing

By Sklan, Ella H.

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Anxiety-associated changes in Neuronal alternative splicing: a rapidly spreading post-transcriptional process with profound behavioral implications | Ever since the human genome project has been completed, it became clear that a surprisingly smallnumber of human genes generated the immense diversityof proteins composing our body. Alternative splicinghas emerged as a key explanation for this expandeddiversity. This cut-and-paste mechanism can yieldnumerous proteins from one gene, depending on thecell type, its development state and the external environment. Of note, both normal aging and psychological stress reactions modify the alternativesplicing process in brain neurons, and miss-splicingof alternative genomic sequences is increasinglyrecognized as a frequent cause and consequence ofhuman disease, especially in the nervous system. Inthis book we describe research work in which weexplored the role(s) of alternative splicing incontrolling neuronal development and neurotransmission processes and in altering behavior, using recent techniques in molecular genetics and transgenic engineering. By linking genes, proteins and behavioral concepts together, a futureapplication could be the development of a blood testdiagnostic application for the assessment of one''sanxiety level at the time of measurement. | Format: Paperback | Language/Sprache: english | 140 pp.



Reviews

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