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Somatostatin induces many transduction mechanisms in transfected systems (for review, see Lahlou et al., 2004; Olias et al., 2004), but deciphering the physiological actions of the native receptors in situ remains an intense field of study. The last decade showed increasing progress in understanding the role of SRIF in brain functions using molecular, pharmacological, and behavioral approaches.

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Mice were sacrificed 3–5 days after infection and the pattern of GFP expression was examined in serial sections of the whole brain at 3 days post-injection (3 dpi; Figure 7). GFP-expressing cells were mainly found in the olfactory cortical area, i.e., the AON, piriform and entorhinal cortex, with rare cells occurring in the dorsal tenia tecta ...

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Name of Journal: *World Journal of Psychiatry*
Manuscript NO: 59956
Manuscript Type: ORIGINAL ARTICLE

Basic Study
Selective ablation of type 3 adenylyl cyclase in somatostatin positive interneurons produces anxiety- and depression-like behaviors in mice

Xiao-Yu Yang, Zhao-Liang Ma, Daniel R Storm, Hong Cao, Yu-Qiu Zhang

Abstract
BACKGROUND
Major depressive disorder (MDD), a highly disabling psychiatric syndrome associated with deficits of specific subpopulations of cortical GABAergic interneurons. However, the underlying molecular mechanism remains unknown. Type 3 adenylyl cyclase

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