

脳神経医学セミナー

Cd38 and Cd157 in the neurobehavioral development

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In accordance with our interest in the role of CD38 in regulating social behavior, we drew attention to the homologue of CD38, an antigen of bone marrow stromal cells -1 (BST-1)/CD157. We found that deletion of Cd157 gene in mice leads to severe anxiety-related and depression-like behaviors or social avoidance that were reversed upon treatment with anti-depression drugs and oxytocin. Vocal communication is a part of mother -infant social interaction. Cd157 knockout pups display a less variety in vocal pattern during neonatal stages (postnatal day 3-10) when the mother-infant bond is the most sensitive. Exogenous OXT administration reversely increased vocal syllable repertoire in knockout pups, although OXT did not advance the variety of vocal pattern. The results demonstrate that CD38 and CD157 are important in the parental behavior formation and parent-infant social interaction.

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