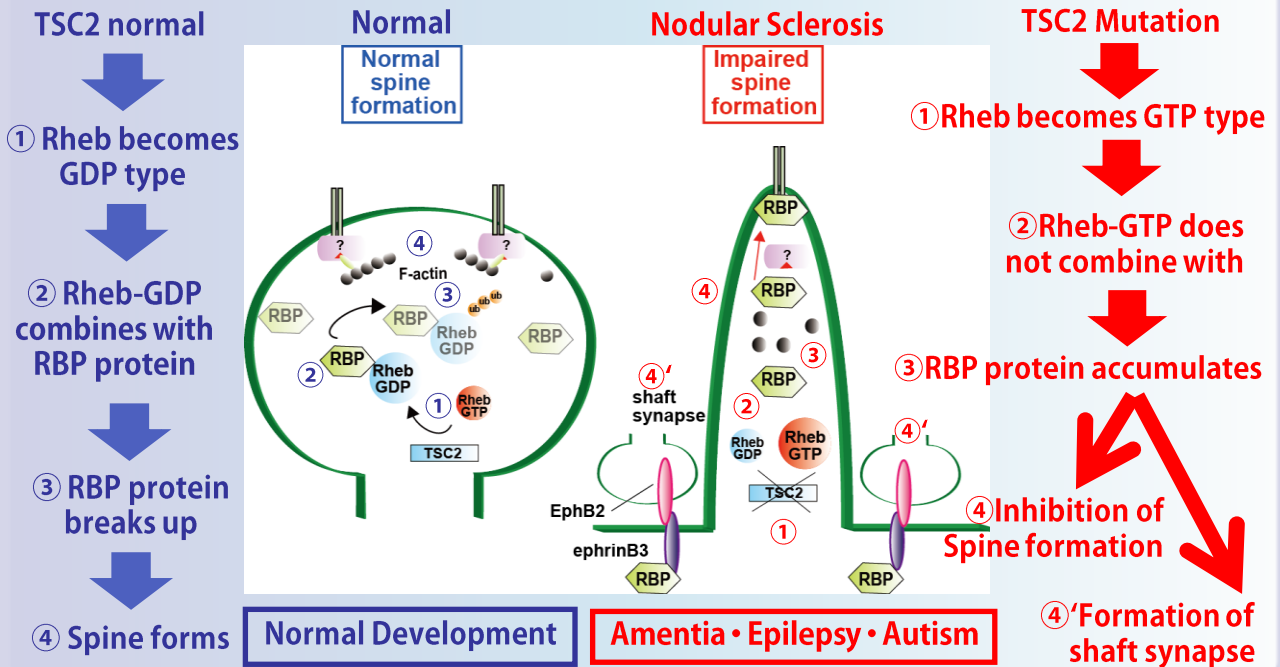


# Drug Discovery Targeting Developmental Impairment Such As Autism and Intractable Epilepsy

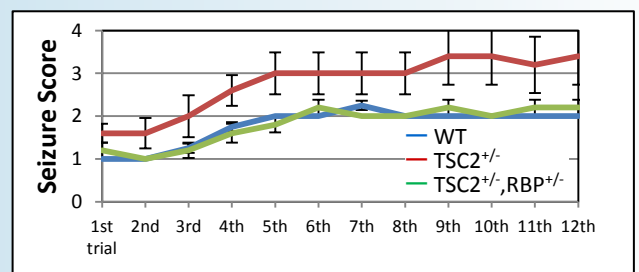
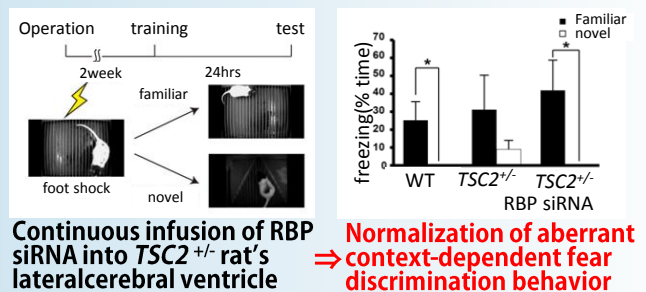
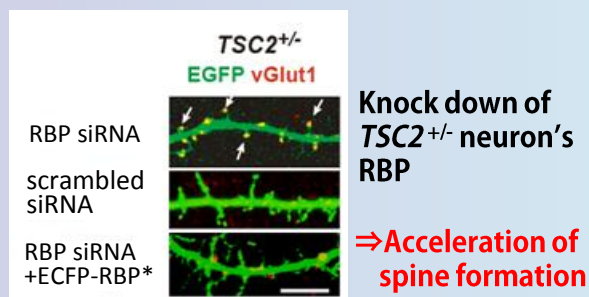
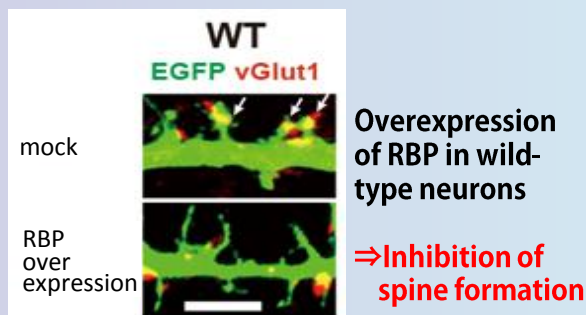
## 1. Summary

We have identified a substance involved with dendritic spine formation in nodular sclerosis model rats. When siRNA was administered to *TSC2*<sup>+/-</sup> rats, spinal dysplasia was cured and context-dependent discrimination learning improved.

## 2. Mechanism of Impaired Spine Formation



## 3. Experiment Results



development of chemical kindling in *TSC2*<sup>+/-</sup> mice and its normalization by RBP<sup>+/-</sup>

