

Title: Intranasal Installation in Mice  
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### Intranasal Instillations in Mice

1. Prepare ribonucleoprotein/peptide complex on ice immediately prior to instillation. Calculate required amounts of each component, and add in order: sterile saline, peptides, ribonucleoprotein. Mix gently. Store on ice until instillation
2. Anesthetize mice with Ketamine/xylazine mix (dose 87.5mg/kg ketamine/12.5mg/kg xylazine, Concentration 17.5mg/cc ketamine/ 2.5mg/cc xylazine) i.p. Approximately 0.1ml/20g mouse.
3. When the mouse is in a deep plane of anesthesia, hold the mouse in your palm and instill 50ul to the nares of the mice using a pipette. Instill slowly so the mouse can breathe the solution in. If the mouse starts to “blow bubbles”-it is still too awake.

Preparation of 17.5 mg/ml ketamine + 2.5 mg/ml xylazine:

#### 1 ml

175  $\mu$ l of 100 mg/ml ketamine  
125  $\mu$ l of 20 mg/ml xylazine  
700  $\mu$ l of sterile PBS

#### 2 ml

350  $\mu$ l of 100 mg/ml ketamine  
250  $\mu$ l of 20 mg/ml xylazine  
1.4 ml of sterile PBS