**Supplementary Figure Legends:**

Supplementary Figure 1. Real-time PCR demonstrating increased miR-29b expression in cortex of SIV-infected and morphine dependent macaques. *p < 0.05 vs control group.

Supplementary Figure 2. A172 cells were treated morphine and Tat for 24h. Total RNA from exosomes was then analyzed by real time PCR for miR-221 and miR-222. Bars represent the mean ± S.D. from three independent experiments. *p < 0.05 vs control.

Supplementary Figure 3. Real-time PCR demonstrating miR-29b expression in cortex and basal ganglia of SIV-infected and morphine dependent macaques.