Investigating the role of granulocyte colony stimulating factor as a regulator of the striatal proteome

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Levels of G-CSF are increased following cocaine


G-CSF signaling alters cocaine preference


Materials and Methods


G-CSF and cocaine cause robust changes in protein expression in NAc

Western blot confirmation

Protein expression comparison: NAc vs. mPFC

Future Directions

- Proteomic analysis of synaptosomes from nucleus accumbens tissue after treatment
- Proteomic analysis of biotinylated cell surface proteins from nucleus accumbens tissue after treatment
- Rapid immunoprecipitation mass spectrometry (RIME) analysis of transcription complexes

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