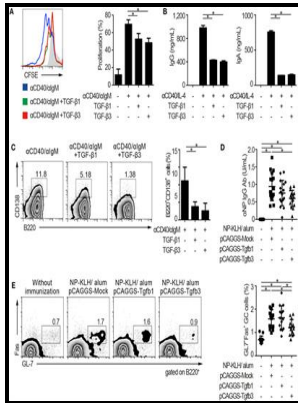


Cytokines and colony stimulating factors - methods and protocols

Humana Press - Combined use of erythropoietin and granulocyte colony



Description: -

Colony-stimulating factors (Physiology) -- Laboratory manuals
Cytokines -- Laboratory manuals
Cytokines and colony stimulating factors - methods and protocols

Methods in molecular biology (Clifton, N.J.) -- 215

Methods in molecular biology -- 215
Cytokines and colony stimulating factors - methods and protocols

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Cytokines and Colony Stimulating Factors

In addition, G-CSF injections potentiate cocaine place preference and enhance motivation to self-administer cocaine, while not affecting responses to natural rewards. For each of the next 5 days animals were injected with 7. Briefly, mice were transcardially perfused first with ice-cold PBS and then with a fixative solution containing 4% PFA paraformaldehyde PFA.

Administration of cytokine

Immunolabeling for tdTomato protein and GCSFR or GCSF in D1-tdTomato mice was performed to determine cell-type expression in the NAc. DREADD experiments For these experiments, we utilized AAV2-hSyn-DIO-hM3Dq-mCherry Gq-DREADD purchased from the viral core at the University of North Carolina, Chapel Hill as well as the retrograding Canine adenovirus type 2 CAV2 -Cre from the Institut de Génétique Moléculaire de Montpellier Montpellier, France. RNA concentration and quality were assessed using a NanoDrop spectrophotometer Thermo.

Cytokines and Colony Stimulating Factors Methods and Protocols 215

In our study, mRNA levels of G-CSF and its receptor were induced in the NAc after acute and chronic cocaine treatment, suggesting a role for mesolimbic system modulation in these cocaine-mediated behavioral effects.

Cytokines and Colony Stimulating Factors

First, it is important that simple measures of reward are not contaminated with reductions in arousal, attention, or cognitive performance. Background: Recurrent miscarriage RM is defined as the occurrence of three or more clinically detectable pregnancy losses in the first trimester.

Combined use of erythropoietin and granulocyte colony

Even with our advances in knowledge, targeting these systems clinically in cocaine use disorder has proven to be difficult for a number of reasons, including problems with side effects, routes of delivery, or abuse potential of agents tested. It is possible that signaling downstream of G-CSF

enhances synaptic connectivity in ways that promote associations of context or cues with a rewarding stimulus such as cocaine.

Detection of Common Cytokine and Colony Stimulating Factor Gene Polymorphisms

The biological significance of these discrepancies is not clear from these experiments, but our findings highlight important differences between the two administration paradigms. Together, these findings suggest that manipulation of G-CSF function may represent a new target for possible pharmacotherapies for patients with substance use disorders.

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