From Dead Heads to Depression Meds: How Psychedelics are Impacting Modern Medicine

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Can We Actually CURE Brain Disorders?
"Call me immediately if this prescription causes any headaches or hallucinations."

- Hallucinogenic
- Causes Heart Attacks
- Difficult to Synthesize
- Insoluble in H$_2$O
- MeO
- Ibogaine
- Difficult to Synthesize
- Insoluble in H$_2$O
- Hallucinogenic
Hallucinogenic
Causes Heart Attacks

Head-Twitch Response Assay

$r = 0.9448$

Log 1 / HITR Potency

Log 1 / Total Human Dose

**TBG is Not Hallucinogenic**

![Chemical structures and bar graph showing the number of head twitches](image)

**TBG is Not Cardiotoxic**

![Graph showing cardiac arrhythmia and images of zebrafish](image)
TBG Promotes Neuronal Growth

Control

TBG

Day 0   Day 1   Day 0   Day 1

Spine Changes (%)

Formation

VEH   DOI   TBG

TBG Reduces Alcohol Consumption

Alcohol   Water

Alcohol Intake (g/kg)

VEH   TBG

Nature, 2021, 589, 474
TBG Reduces Heroin-Seeking Behavior

Self Administration

Improving Mental Health by Increasing Neural Plasticity

DEO is a co-founder and CSO Of Delix Therapeutics, Inc.