Forum:Hack Forums

Thread: DNA of brain cells was more prone to breakage after THC treatment

Anonz8 - *August 5, 2019, 12:08 am*

DNA Damaging Effects, Oxidative Stress Responses and Cholinesterase Activity in Blood and Brain of Wistar Rats Exposed to 9-Tetrahydrocannabinol

Stay away from THC.

Pure Full-spectrum CBD is still Ok though.

pools closed - *August 5, 2019, 12:09 am*

Is breaking brain cells bad? I'm not a doctor

Anonz8 - *August 5, 2019, 12:11 am*

(Aug 5, 2019 12:09 AM)pools closed Wrote: *[CITE]* Is breaking brain cells bad? I'm not a doctor
Yeah, smoking THC-weed basically damages your DNA. Which means you will stop developing and may get cancer, mutations.

5oak - *August 5, 2019, 12:31 am*

(Aug 5, 2019 12:08 AM)Anonz8 Wrote: *[CITE]* DNA Damaging Effects, Oxidative Stress Responses and Cholinesterase Activity in Blood and Brain of Wistar Rats Exposed to 9-Tetrahydrocannabinol

Stay away from THC.

Pure Full-spectrum CBD is still Ok though.
You just jumped to conclusions without even reading the whole thing, get outta here lmao.

Quote:We have to stress that the presented results are valid within the frame of the proposed model, and at this preliminary stage of study they were not intended to provide clinically useful information. Considering that we tested a high THC dose, one could assume that the controlled use of prescribed medical cannabis preparations, which contain much lower levels of THC possibly would not result with detrimental effects at DNA level. However, this could be confirmed only after conducting new experiments. As we focused on exposure to a single THC dose, before drawing general conclusions on THC genotoxicity, further research on in vitro and in vivo models applying a broader dose range with repeated exposure is needed. Furthermore, the metabolic differences between the rat and human metabolism also have to be taken into account before making any conclusion relevant for human risk assessment.

Mix - *August 5, 2019, 12:38 am*

(Aug 5, 2019 12:09 AM)pools closed Wrote: *[CITE]* Is breaking brain cells bad? I'm not a doctor
Breaking any cell in your body isn't the greatest granted your body makes new cells all the time as skin cells die all the time and so your body makes more. but its the same but your brain can't make more like skin.

Anonz8 - *August 5, 2019, 12:56 am*

The DNA of brain cells was more prone to breakage after THC treatment compared to DNA in white blood cells.

1 dose

Anonz8 - *August 7, 2019, 4:35 pm*
Also read that hippocampus shrinks when we smoke, which makes our memory worse.

debian - *August 7, 2019, 5:40 pm*
What is this anti weed government bs?

I would believe this about as much as I would believe a documented study on how "starving yourself is a healthy way to get skinny"

MavenGradle - *August 7, 2019, 5:44 pm*
I quote:
"We have to stress that the presented results are valid within the frame of the proposed model, and at this preliminary stage of study they were not intended to provide clinically useful information. Considering that we tested a high THC dose, one could assume that the controlled use of prescribed medical cannabis preparations, which contain much lower levels of THC possibly would not result with detrimental effects at DNA level. However, this could be confirmed only after conducting new experiments."

In HF speak this means: We used a shitton of THC and we're not sure whether the real thing would have the same effects so don't use this to give out medical advice (yet)

And again:
"Furthermore, the metabolic differences between the rat and human metabolism also have to be taken into account before making any conclusion relevant for human risk assessment."

In HF speak this means: We tested it on rats not humans and humans are not rats.

At first glance this does not appear to be government sponsored bullshit:

"This study was funded through the programme of cooperation between the Institute for Medical Research and Occupational Health (Zagreb, Croatia) and the University North (Varaždin, Croatia)."

If anyone cares enough I might read the entire thing this weekend and provide you with my overall opinion.

debian - *August 7, 2019, 5:48 pm*
(Aug 7, 2019 05:44 PM)MavenGradle Wrote: [CITE] We have to stress that the presented results are valid within the frame of the proposed model, and at this preliminary stage of study they were not intended to provide clinically useful information. Considering that we tested a high THC dose, one could assume that the controlled use of prescribed medical cannabis preparations, which contain much lower levels of THC possibly would not result with detrimental effects at DNA level. However, this could be confirmed only after conducting new experiments.

If anyone cares enough I might read the entire thing this weekend and provide you with my overall opinion.
Yeah, see if the trial was properly conducted and whether the results are accurate and stuff ?

MavenGradle - *August 7, 2019, 5:51 pm*
(Aug 7, 2019 05:48 PM)debian Wrote: [CITE] Yeah, see if the trial was properly conducted and whether the results are accurate and stuff ?
Sure, let me just perform the same study again using the same techniques in my science lab hidden under my garage. ?
No, in all seriousness I can provide you with my opinion, if that even matters in this scientific world.

debian - *August 7, 2019, 5:56 pm*
(Aug 7, 2019 05:51 PM)MavenGradle Wrote: [CITE] Sure, let me just perform the same study again using the same techniques in my science lab hidden under my garage. ?
No, in all seriousness I can provide you with my opinion, if that even matters in this scientific world.
Don't you have access to a super AI computer that could use to run simulations of the study?

I'd be interested if you want to leave your opinion

MavenGradle - *August 7, 2019, 6:00 pm*
(Aug 7, 2019 05:56 PM)debian Wrote: [CITE] Don't you have access to a super AI computer that could use to run simulations of the study?

I'd be interested if you want to leave your opinion
No, I don't have access to or own an AI that is capable of simulating an entire rat and the effects of THC.
Where's this coming from Debian? I thought we could have serious discussions but I'm not sure if you're just trying to provoke some kind of reaction or are generally against studies performed against THC. I'll shut up and leave you to it ?

Anonz8 - *August 7, 2019, 6:07 pm*
Yeah im most intereted in the neurological level, such as, why did the DNA break?

MavenGradle - *August 7, 2019, 6:11 pm*
(Aug 7, 2019 06:07 PM)Anonz8 Wrote: [CITE] Yeah im most intereted in the neurological level, such as, why did the DNA break?
Just FYI since I'm a nitpicker:
Neurological and molecular levels are very different things.

Anonz8 - *August 7, 2019, 6:13 pm*
(Aug 7, 2019 06:11 PM)MavenGradle Wrote: [CITE] Just FWI since I'm a nitpicker:
Neurological and molecular levels are very different things.
Yeah, I am intereted in the molecular (THC) interaction with the Neurological (Neurons, CB1, CB2, and possibly more receptors)

I'm trying to isolate the specific cause of DNA 'damage'.

Such as, THC causes some reaction, and the created chemical is toxic to DNA, something like that.

MavenGradle - *August 7, 2019, 6:24 pm*
(Aug 7, 2019 06:13 PM)Anonz8 Wrote: [CITE] Yeah, I am intereted in the molecular (THC) interaction with the Neurological (Neurons, CB1, CB2, and possibly more receptors)

I'm trying to isolate the specific cause of DNA 'damage'.

Such as, THC causes some reaction, and the created chemical is toxic to DNA, something like that.
You're funny.

Speculation at this point but it might be attributable to activation of the prostanoid synthesis pathway and generation of free radicals by cyclooxygenase or it might be the increase in the release of arachidonic acid, who knows. Another study that I just looked at found that neuron death 'caused by THC' (grain of salt please) can be inhibited by using aspirin, indomethacin or vitamin E.

Anonz8 - *August 7, 2019, 6:36 pm*

(Aug 7, 2019 06:30 PM)forbidden Wrote: [CITE] "Furthermore, the metabolic differences between the rat and human metabolism also have to be taken into account before making any conclusion relevant for human risk assessment."

Dumbfuck quit spreading misinfo
I quoted a scientific article! Science is the ultimate understanding if our instruments are accurate!

debian - *August 7, 2019, 6:37 pm*

(Aug 7, 2019 06:00 PM)MavenGradle Wrote: [CITE] No, I don't have access to or own an AI that is capable of simulating an entire rat and the effects of THC.
Where's this coming from Debian? I thought we could have serious discussions but I'm not sure if you're just trying to provoke some kind of reaction or are generally against studies performed against THC. I'll shut up and leave you to it ?
Trying to provoke a reaction? not at all!

I apologize if you took offense or thought I was not being serious.

What I meant is, couldn't you run the study in a simulation run with AI?

Anonz8 - *August 7, 2019, 6:40 pm*

(Aug 7, 2019 06:24 PM)MavenGradle Wrote: [CITE] You're funny.
Speculation at this point but it might be attributable to activation of the prostanoid synthesis pathway and generation of free radicals by cyclooxygenase or it might be the increase in the release of arachidonic acid, who knows. Another study that I just looked at found that neuron death 'caused by THC' (grain of salt please) can be inhibited by using aspirin, indomethacin or vitamin E.
Yes, is the THC > CB1 receptor activation the process which causes the release of toxic compounds afterward?

This is interesting, perhaps this is why our body produces endocanabinoids, just the right amount.

This indiates that perhaps a very small amount of cannabis, probably consumed as a food such as Bhang in inida (an edible) is best. Just enough to get 'perfect' every few months/years.

I know CBD, activates CB2, and can rest inside, CB1, so THC cant activate it.

(Aug 7, 2019 06:37 PM)debian Wrote: [CITE] Trying to provoke a reaction? not at all!

I apologize if you took offense or thought I was not being serious.

What I meant is, couldn't you run the study in a simulation run with AI?
Real biological test subjects are the most accurate way to test biological reactions to chemical compounds. So real rats are ideal for this purpose.

illegally - *August 8, 2019, 6:41 am*

Studies on rats are never accurate on humans. If a rat drinks a glass of water same as humans he will die from water intoxication. You can't except rats to smoke weed and become bob marley. Although some small relations in structure, rats and humans are fucking different species.

Mutiny - *August 8, 2019, 7:39 am*
Who gives a fuck just fucking send it, YOLO

MavenGradle - *August 8, 2019, 11:34 am*
(Aug 7, 2019 06:37 PM)debian Wrote: [CITE] Trying to provoke a reaction? not at all!

I apologize if you took offense or thought I was not being serious.

What I meant is, couldn't you run the study in a simulation run with AI?
For a second I though you were trolling ? .

Unfortunately our technology is not that advanced yet. A rat has approximately 1.2x10^10 cells. Last year, a company was able to simulate a single yeast cell (in relation to cancer research) but this is incredibly difficult because of all the interactions that are happening. Not to mention that you'd also have to simulate some external factors as well.

Doctor. - *August 8, 2019, 12:53 pm*
What does breakage of the brain cells specifically mean? I heard that our synapses in the brain being reformed and changed could be a good thing. Neuroplasticity helps your brain stay updated and sharp

MavenGradle - *August 8, 2019, 12:57 pm*
(Aug 8, 2019 12:53 PM)DrSpicyHot Wrote: [CITE] What does breakage of the brain cells specifically mean? I heard that our synapses in the brain being reformed and changed could be a good thing. Neuroplasticity helps your brain stay updated and sharp
Death. It means death. Neuronal death. Aptosis or in general terms: Programmed cell death or (the term I prefer) cellular suicide.

Doctor. - *August 8, 2019, 1:02 pm*
(Aug 8, 2019 12:57 PM)MavenGradle Wrote: [CITE] Death. It means death. Neuronal death. Aptosis or in general terms: Programmed cell death or (the term I prefer) cellular suicide.
If that's true, I wouldn't be surprised too much. Is this why the government is becoming marijuana-friendly now? To dumb down its citizens?

MavenGradle - *August 8, 2019, 1:04 pm*
(Aug 8, 2019 01:02 PM)DrSpicyHot Wrote: [CITE] If that's true, I wouldn't be surprised too much. Is this why the government is becoming marijuana-friendly now? To dumb down its citizens?
That's a big IF indeed. They performed this study using incredibly high levels of THC on rats, so we can't tell whether or not THC under normal usage does the same thing for humans.

device - *August 8, 2019, 2:57 pm*
(Aug 7, 2019 05:40 PM)debian Wrote: [CITE] What is this anti weed government bs?

I would believe this about as much as I would believe a documented study on how "starving yourself is a healthy way to get skinny"
I use to smoke weed heavily and hash, I can really feel the damage it has done to my brain. Memory is now shit and I don't think as fast as I use to when I was younger.

Anonz8 - *August 8, 2019, 9:02 pm*
(Aug 8, 2019 02:57 PM)The Worker Wrote: [CITE] I use to smoke weed heavily and hash, I can really feel the damage it has done to my brain. Memory is now shit and I don't think as fast as I use to when I was younger.
yeah, teh good news is just eat more fruit.

The DMT in the fruit such as oragnes, bannanas, magnos grows your hippocampus.

tripleseven - *August 14, 2019, 7:53 pm*

This is an interesting study, but do note that the rats were given a dosage of pure thc. When you consume cannabis in any way you are absorbing a full profile of cannabinoids, which has a totally different effect on the body. Not saying cannabis is either good or bad but this is something to keep in mind.