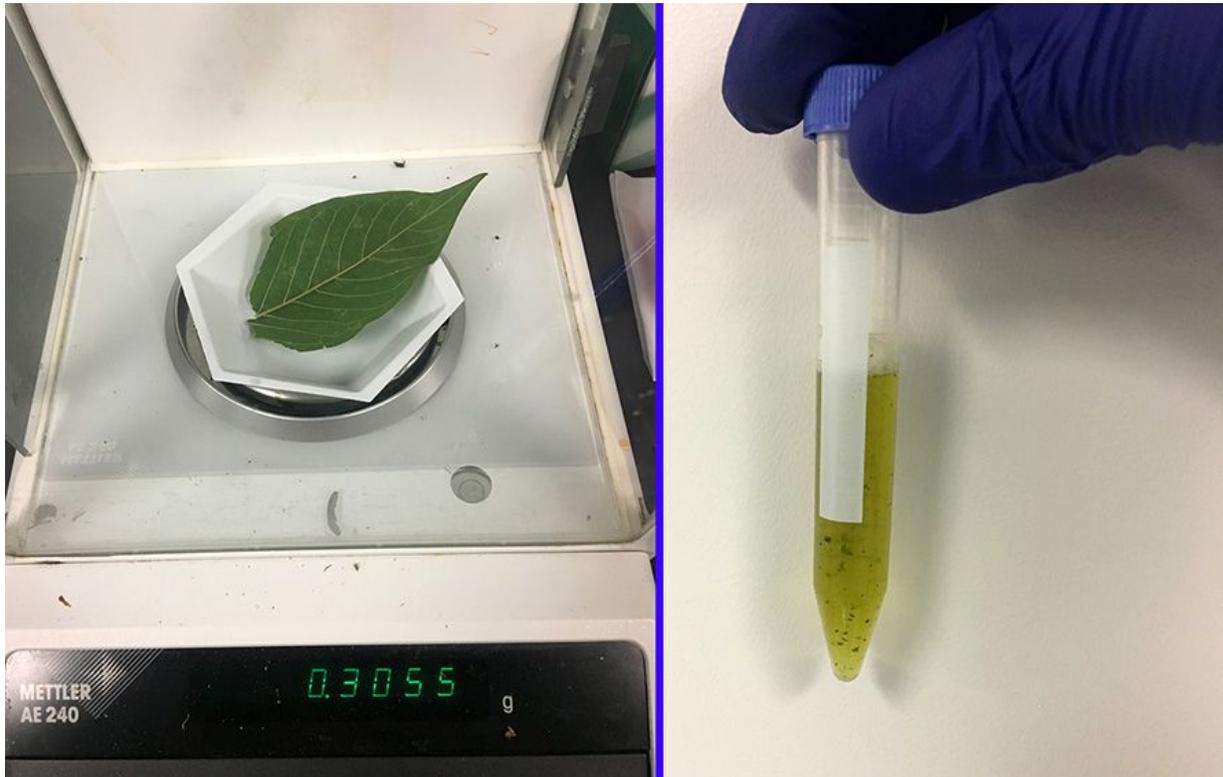

Protecting Kratom from Big Pharma

We've started sequencing the Kratom Genome as "prior art" to prevent patents

by The Kratom Genome Project

www.KratomDNA.org



Overview

Kratom is under attack.

Long used as a helpful medicinal and recreational herb, *Mitragyna speciosa*, or Kratom, is now gaining the attention of those who don't want you to control your own body and mind.

Various governments have recently outlawed or regulated the plant, or have plans to do so.

This behavior is historically a prelude to large pharmaceutical companies patenting natural medicines to monopolize their derivatives and sell them at high prices.

By sequencing the Kratom genome and releasing this information free to the public, we will establish "prior art" to render attempts to secure monopolistic patents moot.

More on the technical details of this type of anti-monopoly protection is [here](#).

tl/dr version: While an entire plant genome can no longer be patented, specific strains can be, which can be bad for kratom users in general.

We beat big pharma to a public release and that's good for keeping kratom from being locked down.

A lot of people think that plant DNA can't be patented

Patentability is country dependent. In the USA, a bred *strain* of a plant can still be patented, and recently has been with cannabis. More [here](#).

We are NOT trying to get a patent. We're trying to *block* patents on one very common kratom strain (Red Vein Thai).

To that end, so far we've sequenced and published 10X the amount of the Kratom genome bases than the largest amount anyone else has released ([NCBI / NIH](#)).

What we've done so far

We've "shotgun sequenced" part of the genome of Red Vein Thai kratom, then proved in an irrefutable way on the Namecoin blockchain when we did it. We've released it free to the public, and encouraged people to download it and to share it on torrents to have as many copies of it in the wild as possible.

We've also used [RAID Review](#) for a quick yet [thorough peer review of our initial sequence data](#) by [Bryan J. Jones, Ph.D.](#)

What we plan and what we need

We plan to complete the sequencing of Red Vein Thai kratom, then move on to sequencing a white strain and a green kratom strain. All the while, sharing in public as soon as we have the data, in compliance with the suggestions of [Bermuda Principles](#). And we will continue to engage in education and outreach to spread the word.

This will serve to cut patents off at the pass. But it is also valuable research that will help scientists around the world find out more about useful applications and safe consumption of Kratom for medicine and recreation.

This will cost money.

We also need people to torrent our data to keep it alive in the wild.

And we need people to share links to this project and talk it up. Public data few people know about isn't truly public.

Specifications of sequencing

DNA isolation: Plant DNA was isolated from 300mg of homogenized leaf from Red Vein Thai Strain utilizing a 45 minute heated shaker (37C) with steel ball bearings. Lysate was purified utilizing SenSATIVax and eluted in ddH2O at 2ng/ul.

Library Construction: Nextera transposition was performed on 20ng of DNA at 55C for 10 minutes with 1ul of Nextera Enzyme. 12 cycles of PCR were performed and the library size selected to 600-800 bases on Blue Pippin Prep SAGE station.

Sequencing: 2x151bp reads were run on an Illumina MiSeq with Version 2 chemistry. 42 Million reads were generated.

Analysis: Reads were assembled with SPades and CLCbio workbench version 9. Quast and Bondage were used to generate assembly statistics and assembly graphs. All [40 DNA sequences](#) in NCBI were compared to the reference genome and 100% of these had alignments to the assembled reference with a 100% match to previous [ITS sequence of *Mitrogyna speciosa*](#).



What you can do to help

I. Tell two friends (or two hundred)

Tweet, blog, post our website. Tell as many friends as possible. Here's a cut and paste that will work anywhere. Tailor as needed to your voice and your audience, but please keep the web address in there:

Protect Kratom from Big Pharma

Help sequence and share the Kratom Genome to keep it open source and not a big pharma monopoly.

The Kratom Genome Project

<https://KratomDNA.org>

II. Torrent and seed the actual data

This makes the "prior art" to prevent patents universal and unstoppable. We explain how on our website, [here](#).

III. Donate

Genetic sequencing costs money. LOTS of money. So far we've largely paid out of pocket, but have no more to pay ourselves.

We've sequenced part of the genome of Red Vein Thai kratom (far more than anyone has ever done). We plan to complete that, then move on to sequencing a white strain and a green kratom strain.

We take donations in Bitcoin, Bitcoin Cash, Ethereum, Monero, Litecoin, Dash. [Help out here](#). All donations will go directly to sequencing, promotion, hosting and overhead.

IV. Peer Review welcome

If you're a geneticist, please contact us at the link below this section. We welcome other scientists to inspect and peer review our work.

V. Talk to others

Become educated on the advantages of kratom and other botanical medicines. Explain patiently online in person with family, friends and strangers why it's false to say "there oughta be a law", remembering that all laws are backed by the threat of a gun and the threat of a cage.

Embrace this era of new growth, and spread the word.



Who are we?

People who work in genetics but can't give our real names because it could be detrimental to us. This is a tricky subject.

But we know our science, the data sequenced so far confirms that, and we invite other scientists to examine it and use it...

...As long as they abide by the BipCotSci SomeGov License.

The *BipCotSci SomeGov License* is a variation of the [BipCot NoGov license](#) with Libertarian Indulgence / [Mailman Exception](#).

This allows use and reuse by anyone except by governments, or government agents who specifically promote violence by attempting to monopolize things that grow out of the ground.

Anyone, including government scientists, are invited to examine, utilize and share our data if they are not acting in a coercive capacity or enabling others to do so with their work. And they must credit the Kratom Genome Project and link this site.

Thank you for helping us help keep nature's gifts open to all!

Oh, by the way, [the Kratom Genome Project also just fixed peer review. Check our statement on RAID Review](#), which was used for our first peer review.

Contact: kratomdna@gmail.com

The actual specimen (Red Vein Thai strain) that we sequenced:

