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## Treatwell Pet Tinctures

Will Tinctures  
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## Doc Talks

Oregon-based Veterinarian  
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### HOW CANNABIS CAN HELP YOUR PET

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humans.

p12

# The Pet Issue



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# Letter From the Editor

*Until one has loved an animal, a part of one's soul  
remains unawakened.*

-ANATOLE FRANCE



Dear Reader,

Thank you for picking up the March issue of the *Emerald Magazine*.

As Spring emerges, the time for us and our four legged friends to hit the garden begins again. This March, we turn our focus to our pets, and the ways in which cannabis can heal them. Like humans, animals have cannabinoid receptors, which allow them to benefit from the medical properties of cannabis.

Cannabis as a medicine for pets is an emerging industry on its own, but it is arguably more controversial than medical or recreational cannabis use for humans. While the research remains limited, some people believe treating pets with cannabis is animal cruelty. We've all heard about the village idiot who gets their cat or dog high. And while one bad apple seems to effectively spoil the bunch for the rest of us in the industry, there is more good than harm coming from pet owners.

Companies like VetCBD (pg. 43), Mary's Nutritionals (pg. 47), and Treatibles (pg. 49) are helping to combat the stigma surrounding the industry. Through research, and data collection, these budding businesses are helping to uncover the benefits of cannabis treatments for pets,

big and small. Some in the veterinary community have become proponents (Canna Companion, pg. 24), while others remain reserved (Doc Talks, pg. 22).

When it comes to cannabis, there are many ways in which it can be used. Take a look at this month's gift guide for a plethora of all natural, animal-friendly items for your pet (pg. 29).

Join us in April as we start the season off right with our "Strain Issue," where we'll focus our attention on specific seeds and cuts that are sure to soar you sky high.

Cheers,

Christina De Giovanni  
Publisher



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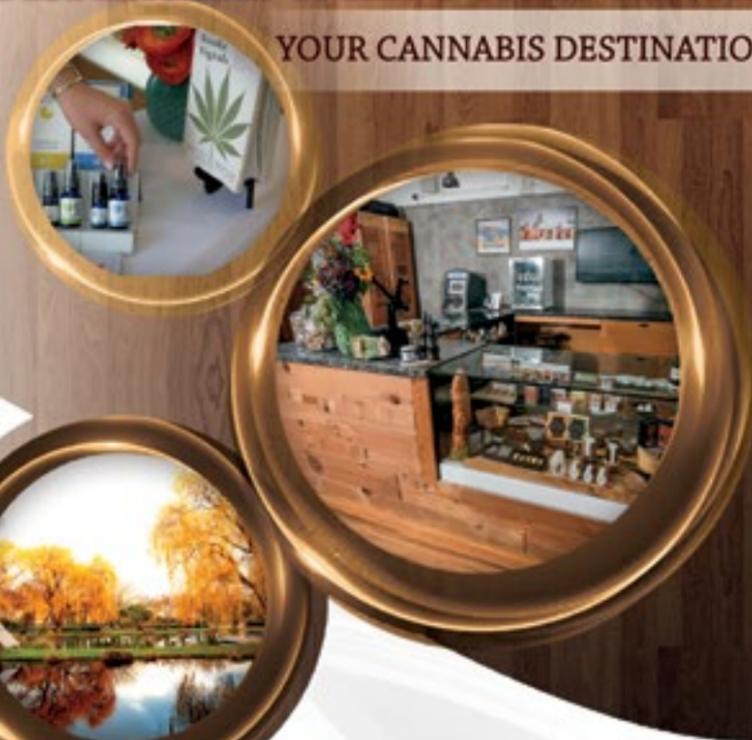
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Though research exists on how cannabis helps pets facing medical problems like cancer, that limited data pool is only the beginning if you want to help a pet through a heart-wrenching condition. That just wouldn't do for Northern California company Treatwell, so they're filling in the gaps themselves to help an exotic range of patients.

To create the most effective treatments for critters big and small, Treatwell works with pet patients of all kinds (as well as humans) to create data sets that allow them to look at the possibilities for a wide vari-

ety of conditions, said Alison Ettel, CEO and Founder of the company. "We're always looking for what will work better with less dosage."

"Ours is based on observational data, because we are seeing different results from what research says. Like with THCA, which I'm playing with right now," Ettel said. Even though many human cannabis studies use dog's as test subjects, she said, that "there are many factors that could be affecting those studies. It could be the extraction method, or that a certain terpene is missing. With trim versus flower, we're no-

## TREATWELL PET TINCTURES

ON THE CUTTING EDGE OF RESEARCH FOR TREATING ANIMALS WITH CANNABIS

ALLISON EDRINGTON



# CANNABIS FOR PETS



ting a huge difference." By controlling the source of cannabis, the dosage and other factors, Treatwell can understand the effects better.

When Treatwell was launched in 2014, Ettel partnered with Harry, who prefers not to use his full name, a Southern Humboldt farmer and extractor who has worked with people patients for over 20 years and has treated dogs for 10 years, particularly seizures in dogs. Harry started healing himself with cannabis after modern medicine failed to address his severe autoimmune issues. He made medicine for other human patients as well, and the decision to start helping pets came naturally.

"Curing myself of an incurable disease lead me to realize it should be explored in other avenues," and that other mammals could potentially have their lives elongated or their last days made more comfortable, Harry said. "In Humboldt [County], there's one dog for every person up here. We love our dogs. It was intuitive after a while. We gave it topically, originally. We had a dog with a huge tumor on its leg, and within days there was a reduction in the tumor. At that point, the owner wanted to give it to the dog orally as well. They started slow and it did well. The dog lived six years after that."

"Alison and myself, both of our lives were dramatically changed by cannabis personally, and we



(below) Treatwell's founder, Alison Ettl



both have a deep interest in helping animals as well as humans," Harry said. "So, we started creating the proper formulations for animals. Alison is really involved in collecting data and figuring out dosages. I helped basically doing the file formulations of all the tinctures and away we went. We've had a lot of success in a number of areas."

Treatwell started with offering human-focused product lines and soon after saw the need for pet-specific ones in the market. "They have different metabolisms," Ettl said. "You shouldn't give human dosed products to pets. Especially pure

THC -- it causes too much stress. Very different than humans. In humans, you often need higher THC, but we haven't found that in animals. The highest we've needed was a 50/50 ratio."

### Do Pets Get High from Humboldt-Sourced Tinctures?

The source of Treatwell's cannabis for their tinctures is part of what makes it so effective. Harry had cultivated a genetics library in Southern Humboldt that CBD-innovator Ringo Lars previously helped him develop. "We only use untrimmed top-shelf flower" grown with above-organic standards for the people and pet tinctures, Ettl said -- they have seen best results when they leave out the trim and shake to keep as many of the molecular bonds together as possible.

But will cannabis tinctures get your pet "high?" This question concerns a lot of pet owners, Ettl said. "If you start small and follow the instructions, you will never get the animal high. If you want to help certain conditions, 20:1 won't do a thing. 20:1 is what we sell the most of; it does the most for pain. In humans, it does well for anxiety and mild inflammation. But in animals we are seeing it as a very good pain reliever. The minute it crosses over into other areas, you need the higher ratio. 1:1 is needed for cancer, not the 20:1 at all."

"The main thing [is that] every dose is different, just like with humans. They need to experiment and find the [lowest dosage] that will help," Ettl said.

"Hot spots" on dogs -- areas where a dog will chew raw over and over -- are one of the conditions they are working with to fine tune the best options. "We noticed 20:1 was doing well. When we used it topically, it took half the amount of time. Then we combined it with tincture, and it cleared up in days. They're much more effective when [combined]," but the work isn't done. They're always looking for the best treatment options with the minimum dosage. She's also had recent success testing the possibilities of CBDA. "We haven't played around with it for seizures yet, so it's not my go-to for seizures, but I have a hypothesis."

New product lines for both humans and pets are in development at Treatwell. Ettl is especially excited about her testing of the effectiveness of acids like THCA and CBDA. Harry said they challenge themselves to keep up with current research coming out and digging deep to find out what is real. At the end of the day, it comes back to who receives the medicine, be they two-legged or four-legged creatures: "We're all about patients because we are patients," Harry said.

Treatwell can be found in select dispensaries. Go to [TreatwellHealth.com](http://TreatwellHealth.com) to find one near you or to learn more.



### Can Your Pet Help With Exotic Research?

Goats, alpacas, horses, pigs, dog breeds of all kinds -- Treatwell has exotically expanded its patient list over the last year in the best way possible and is looking for more.

Research is at the backbone of what Treatwell's team does. Many of their patients' owners turn to cannabis options only after exhausting traditional veterinary medicine. Working closely with patients they are studying has allowed Treatwell to gather crucial data. "Our research is based on observational data because we are seeing different results from what published research says," Ettl said.

"When you look at the studies that exist and see how they were conducted, it renders [them] moot. When the studies are dealing with synthetics or a single string of molecules, it's completely different. Some studies you realize only used males."

Not including female subjects in studies isn't just a problem in pet-related studies. *Why is it a problem?* This is best summed up by Boston University professor of Public Health, Julie Palmer, who in an interview with Boston University Today said, "Some [studies] do translate, but men and women have dif-

ferent hormones. There are many pathways affected by hormones in the body. Cardiovascular disease, in particular, and some of the cancers are affected by hormones."

Do you have an exotic or unusual animal with a medical condition? Treatwell wants to help -- they will provide tincture at no cost for exotic participants needed for their research.

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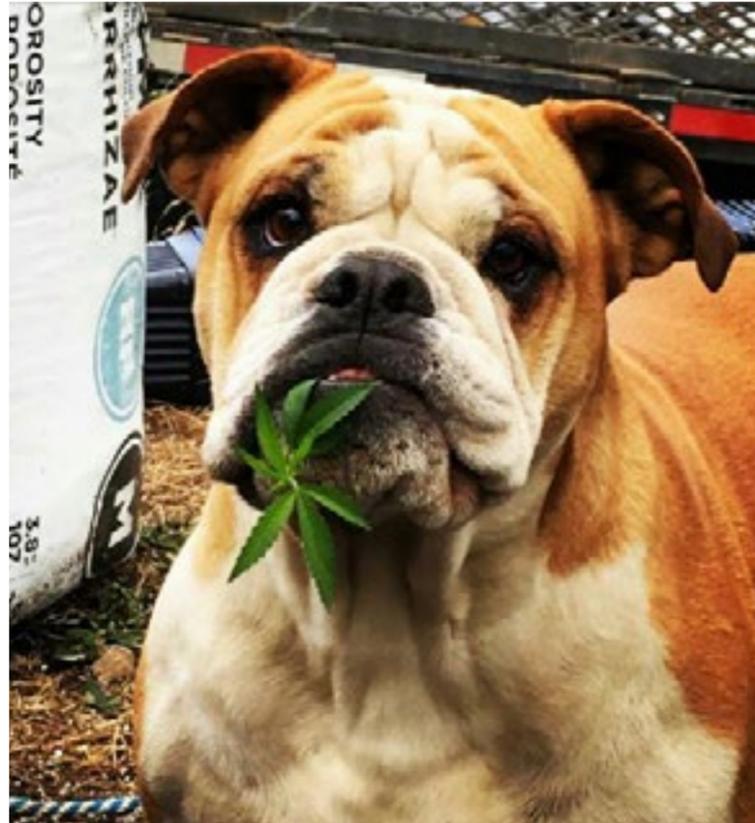
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# HOW CANNABIS CAN HELP YOUR PET

WHEN IT COMES TO YOUR ANIMAL, THERE ARE MANY THINGS TO CONSIDER

JAMES PRIEST



(left) Humboldt Honey at 8 Mile Family Farms.

*“Don’t worry she wasn’t eating the plants. She was sleeping when we were de-leafing,” says her mama.*

*Our pets can benefit greatly from cannabis. Animals may receive the medicinal attributes of the plant through topicals and edibles such as: creams, lotions, oils, soaps, salves, patches, tasty treats, tinctures, and capsules.*

## What Does Cannabis Do That Will Help My Cat or Dog?

Every mammal on the planet has what is called an endocannabinoid system. This unique system contains receptors located throughout the body found in the brain, cells, tissues, nerves, muscles, and skin. These receptors respond to cannabinoids. When they become saturated in cannabinoids, such as THC, CBD, CBG, CBN and others, two-way communication begins to happen between nerves and cells. This essentially allows for the body to operate at a more efficient level, naturally.

Through the consumption of cannabinoids, your pet can receive the same incredible benefits as humans. This includes relief from inflammation, arthritis, seizures, depression, skin and fur disorders. If your pet has become ill or is starting to suffer from conditions that come with age, like arthritis, there are options aside from prescription drugs. It’s very important to speak with a professional who understands animals and cannabis for advice as to the best method of delivery and proper dosage.

SOME PEOPLE USE FULL SPECTRUM WHOLE CANNABIS PLANT THERAPY FOR THEIR PETS, BUT THIS IS OFTEN AT THE TERMINAL POINT TO EASE THE PAIN THEIR PET IS IN.

▶▶ In his article, titled “Introduction to the Endocannabinoid System,” Dustin Sulak, DO, states that cannabinoids play a vital role in the promotion of homeostasis (the regulation of internal systems to maintain balance) on every biological level. The endocannabinoid system is kind of like the cell mediator for mammals. This system is also responsible for controlling body functions such as autophagy (the breaking down and destruction of unhealthy parts of cells to be digested and recycled).

## Where Can I Find Cannabis For My Pet?

Finding cannabis for your pet isn’t difficult if you live in one of the eight states that have legal retail access to cannabis. If you live in one of the many other prohibition states, this may be a bit more difficult, but possible (some online companies deliver to all 50 states). The best way to find the medicine you need is to set up a visit or consultation with a veterinarian familiar with cannabis or holistic medicine. The misconception many times is that your pet will consume cannabis the way you do. In fact, pet’s don’t usually consume THC, but rather CBD.

CBD has many medicinal attributes without the stoney effects of THC. CBD is known to be an anti-convulsant, anti-inflammatory, analgesic, and more. Some people use full spectrum whole cannabis plant therapy for their pets, but this is often at the terminal point to ease the pain their pet is in.

## There’s No Better Time To Find Out More About Cannabis For Your Furry Family Member

Advancements are being made in the areas of research surrounding pets and cannabis. This becomes more evident as the market grows, and as more specialists, such as Dr. Anne Lampru, recommend cannabis treatments for animals. Dr. Lampru, a holistic veterinarian in Tampa, Florida, is seeking success stories about dogs using CBD.

An example of such a case is a 10-year-old dog named Diesel who suffers from a herniated disc. Cannabis has proven success for him and his brother Tanker, who suffers from an autoimmune disease. “This is just the cannabinoid oil. This is not anything with the psychoactive effect at all,” is what Dr. Anne Lampru, told NBC-2.

In the CNBC report, titled “Pot For Pets,” an in depth look is taken at Kelly Conway and her pooch, Georgia, a Cavalier King Charles Spaniel with syringomyelia, a neurological disease. Conway told CNBC that “It has truly been a miracle and I don’t say that lightly, I feel like I have a whole new dog. Georgia’s happy and relaxed. She’s not in pain. It’s amazing.” 🌿



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## DOOBIOUS SOURCES

REAL STONERS, FAKE NEWS

SHANNON PERKINS

Hollywood's green carpet rolled out for the Doobious Sources premiere at 4:20 p.m. on Saturday, January 20th at the Arena Cinelounge. Members of the cannabis community, like the High Hipsters (pg 44), Medicinal Mike and Betty Khronic, gathered for the event and cannabis mixer. Phoebe Schiff, Marketing Strategist, coordinated the professional, pot focused event, which included giant doobies for posing purposes.

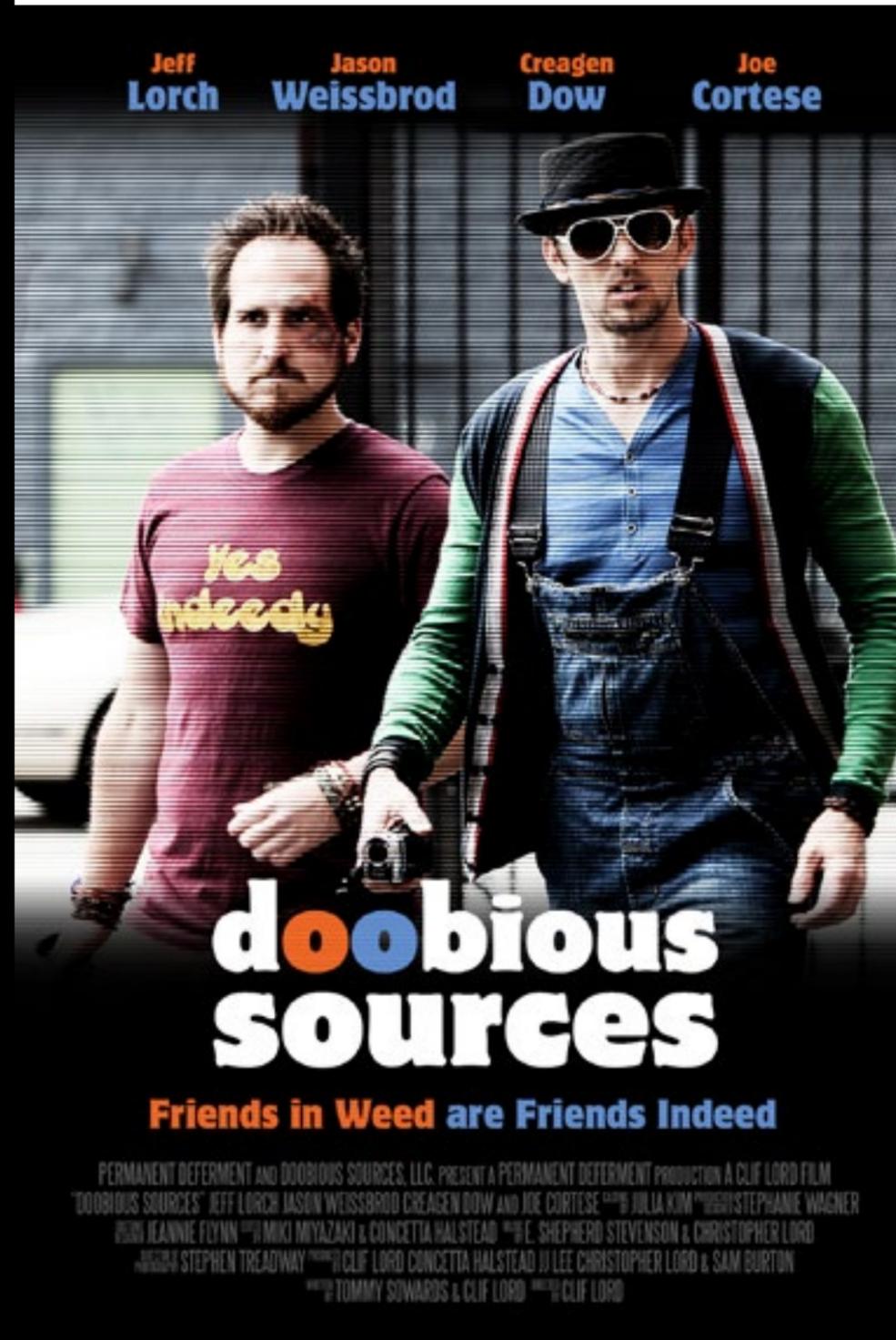
Gravitas Production is distributing the film, which screened at the Denver Film Society's 420 Week, the Cannabis Film Festival in Garberville, California, the Film Society's 420 Week, the New York City Film Festival, and the Maine Cannabis Film Festival.

This is not your typical stoner movie. The tragic heroes, The Reg and Zorn, are productive potheads. They have real jobs as investigative journalists for Instant Karma Investigative News Service. They just happen to smoke weed, all the time.

Out of a dare, Doobious Sources was created. The challenge: make a feature film that introduces a new cinematic language, isn't art film pretentious, and conforms to the Screen Actors Guild (SAG) ultra-low budget agreement.

Clif Lord, writer/director/producer, said he portrayed the type of stoner that he knew, while normalizing cannabis use without calling direct attention to it. The Reg and Zorn make plans and accomplish them, while smoking joints. They are not the negative, stereotype stoners melted to the couch. True, these guys do make some pretty stupid moves, like trying to discreetly tail their subject in an oversized RV, but that is because they are humans and humans do dumb things sometimes, Lord explains, "don't blame the weed."

Jeff Lorch stars as Reginald Block-Hunsleigh, aka The Reg, and Jason Weissbrod brings Zorn Tappadapo to life. The Reg and Zorn film every single moment they share because they are paranoid about a previous scandal The Reg pulled. Weissbrod and





▶▶ Lorch worked together on previous projects, and have experience as cameramen, which was important in the characters they played. A lot of scenes are captured by Lorch and Weissbrod themselves. It enhances the honest feeling. Creagen Dow plays Ky Kittridge, a young journalist just starting out and looking for guidance in the news world, or so it seems. The jokes on the spelling of his name Ky, the Greek spelling he insists, had the Cinelounge rolling with laughs. Joe Cortese as Magnus Martin-dale brings the pain in this film, and provides a solid, sharp contrast to the protagonists. He also handles the camera a few times.

The film opens with a hot box smoke session in the front seat of the Instant Karma News van. This is my favorite scene because the lighting and framing immediately sell the situation, and it feels real. It's hazy, the colors are saturated and blown out in a surreal look, akin to something I've seen on a potent Sativa hybrid high, on a warm day in the car. Though this is a fiction piece, Lord included specific elements to make it feel like actual found footage. There is a single shot on Zorn coughing and turning red in the face that is easily relatable and accurate. During the Q and A after the premier, Weissbrod and Lord both confirm that real weed was not openly used for filming due to SAG and other union regulations.

Lord's direction and the actors' abilities to work with a camera is exceptional. All moving shots, which consists of large portions of the film, were captured by the talent. With a beautiful balance of fast paced shots and holds on certain moments, the editing by Miki Miyazaki and Concetta Halstead created a nice, memorable juxtaposition. E. Shepherd Stevenson and Christopher Lord scored the music for the film. Combined with framing and editing, the music helped drive the aesthetic of a youthful, stoner garageband.

Even if their goals or ambitions are questionable, dubious in fact, that is who they are as characters in the film and it unites them. "I wanted to create a world where they don't have to hide [pot use]. This movie is about normalizing cannabis use and cannabis culture," Lord told me during a phone call the following week. "After seeing the movie a few times now in front of large audiences, it really feels like a bonding experience, like we all sesh-ed together."

The Blair Witch Project was a style inspiration for Doobious Sources, along with Cheech and Chong.

One of the major departures from a typical stoner story, Lord explains, is that cannabis use is never moralized in Doobious Sources. The Reg and Zorn

▶▶ may be immature, dumb dudes trying to hustle a fake news scam, but weed is not the problem. Cannabis is neither good nor bad, but simply the contents of one's pipe. This is a refreshing turn from the obsession of either demonizing or ridiculing pot use in general culture and film.

The costuming by Jeannie Flynn adds humor and style, and was notable throughout the film. For an investigative confrontation captured on video, The Reg runs across the street in a sport coat, looking very professional. Then, as he gets further across the street, we see dangling overalls because for him it makes sense: the camera can only see his top half, in the sport coat, looking professional. That felt realistic, and absolutely hilarious.

This fun film is a great addition to stoner movie culture; it brings a fresh look and feel, while incorporating old classics like the hot-boxed van. It is definitely worth checking out at least once, and forming one's own opinion on the film. Though I would have loved to see more female characters, I appreciated the realism of pot, men, and fresh filmmaking. 🌿

**Doobious Sources is available to rent or own on Dish Network, Cox, Charter, Verizon Fios, iTunes, Amazon Instant, Google Play, Vudu and more from Gravitass Ventures. To watch the trailer and get the scoop, visit DoobiousSources.com, also available on Amazon, iTunes US and iTunes Canada.**



(upper & lower left)  
Photos by Remy Dixon at the premiere of Doobious Sources.



(middle)  
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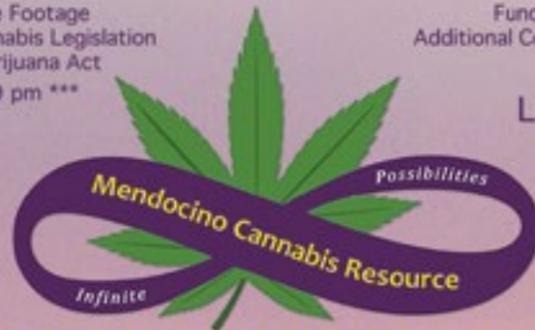
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## TIME TO ENACT EQUAL ACCESS

Understanding the evolution of cannabinoids helps veterinarians appreciate the unique role cannabis can play in the medical treatment of dogs. It also suggests some other, more controversial possibilities.

DIANA TRIMBLE

Pictured above is the Sea Squirt, which is said to be the first to create cannabinoids, and establish them at the origins of the developing central nervous system.

*The cannabinoids' resulting crawl through evolution was extraordinarily comprehensive; it was also excruciatingly slow.*

It's generally accepted by biologists, if hotly contested by creationists, that five hundred million years ago or so, the Sea Squirt arrived on the evolutionary scene. As its somewhat rude common name would suggest, this wasn't exactly the most sensational of harbingers. After all, the Sea Squirt is a lowly feeder that lives at the bottom of the ocean. Despite the fact that it's technically a distant relative for all us vertebrates, its largely immobile behavior more closely resembles that of a simple sponge. (I once had a housemate of whom much the same could be said, but I digress...)

There's something to be said for the slow burner, and perhaps it is, ahem, high time that credit is given. As Maurice Elphick, Professor of Animal Physiology and Neuroscience at Queen Mary University of London, demonstrated in works such as "The Evolution and Comparative Neurobiology of Endocannabinoid Signaling," it was none other than the Sea Squirt that first had the brilliant impulse to create cannabinoids, and establish them at the origins of the developing central nervous system, thus ensuring that all ensuing vertebrates would have tetrahydrocannabinol (THC) and cannabidiol (CBD) receptors.

Now that's what I call forward thinking! You go Sea Squirt!

The cannabinoids' resulting crawl through evolution was extraordinarily comprehensive; it was also excruciatingly slow. Eventually, specialized sub-species were able to experience both psychoactive and physiological effects from cannabis and its derivatives.

Even more than humanity, it's man's best friend, the dog, that is outfitted with endocannabinoid receptors galore. As one impressive slide in Dr. Richter's presentation at the 2016 Emerald Cup in Santa Rosa, California showed, "Studies from the 1970s found the dog to have the highest concentration of membrane receptors for THC in the cerebellum, more than any other species measured."

Perhaps this can be explained by the early origins of dogs, which go back to approximately sixty million years ago. Although the earliest primates popped up around the same time, the order was still comprised of both Prosimians (e.g. bushbabies, lemurs) and Anthropoids (this is where we start to come in) until twenty millennia had passed. The split between monkeys and humans didn't occur for another fourteen million years.

Simply put, humans, dogs and cannabinoid receptors developed in symbiotic harmony right up to the present day.

However the use of cannabis for dogs – whether medicinal or recreational – has never really been considered. Until now.



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▶▶ Visionary veterinarians, like Dr. Richter, have pioneered the application of various cannabis products for pets. As he explained, just as with humans there are a variety of ailments that can be relieved, controlled, or even eradicated by cannabis.

Medicinal benefits for canines are similar to those in humans: nausea control, appetite stimulation, anxiety reduction, anti-inflammatory effects, seizure reduction, relief of sleep disorders, and resistance to cancer, as well as reducing side-effects of some pharmaceutical medicines.

As far as the risks, those seem to be reasonable, according to research presented by Richter.

Even so, Richter said it's crucial to involve veterinarians in any decision to treat a pet with cannabis. It may be hard to kill a dog with cannabis, but you could certainly cause it to suffer by giving it too much. In



(above) Veterinarian, Dr. Richter

some cases, stomach pumping and treatment with charcoal may be required.

In Richter's practice, he avoids mishaps by helping pet-owners create carefully measured syringes of cannabis oil (for oral ingestion). Dosages start as low as possible and are gradually increased to find the optimum level of relief.

But what if your vet is unsympathetic to the notion of cannabis-based treatment? What if he is supportive, but can't say so?

Indeed, the American Veterinary Medical Association (AVMA) has stated that the protections from prosecution that exist for physicians recommending cannabis to their human patients in certain states, "do not apply to veterinarians, for whom it is illegal in every state to prescribe or recommend marijuana to treat a patient."

Accordingly, the ASPCA's webpage on "marijuana" describes cannabis as toxic to dogs, cats, and horses. It doesn't allow for any medicinal, or recreational, attributes and gives a phone number for Poison Control "if your pet ingested this plant."

So, has anyone ever actually been prosecuted for giving their pets cannabis?

I was relieved to find no evidence of a veterinarian being prosecuted, although it's possible. Owners, on the other hand, should consider the 2015 "animal cruelty" case against one aptly named Bruce Blunt.

The Chicago PD took Binna, Mr. Blunt's pet chameleon, into protective custody after PETA reported a video posted on Facebook which showed Blunt

ASPCA is the American Society for the Prevention of Animal Cruelty to Animals. To learn more, visit ASPCA.org

▶▶ blowing smoke into his "sometimes aggressive" pet reptile's mouth. His defense; the creature seemed becalmed by the second-hand fumes. As the judge noted in his acquittal decision "the chameleon did not change color," indicating it was not distressed, and did not suffer any ill effects.

I contacted PETA to ask if giving cannabis to dogs was tantamount to animal abuse. I received this response, attributed to Senior Vice President of Cruelty Investigations, Daphna Nachminovitch, "If the proper administration of marijuana can truly relieve a dog's pain, then they should be given the same consideration that humans in pain are given, with regular doses to help reduce their misery. It's entirely a different matter to amuse oneself by getting the cat drunk or the dog high."

Encouraged by PETA's stance, I decided to see how things stood in a pro-canna state like Colorado. I was surprised to see the popular article, published in the Denver Post in 2013, "Pot and Pets: For Them a High is Dangerous - So Stash that Stash," by veterinarian Stephen M. Sheldon.

In this, Dr. Sheldon focused on the dangers of leaving one's herb within Fido's reach, and stated that "It is unnatural for animals to be intoxicated. They're uncomfortable with it."

Not according to the seminal work of Ronald K. Siegel whose 1989 book, "Intoxication: The Universal Drive for Mind-Altering Substances," presented a persuasive case for pan-species partying. Far from



being "unnatural," many animals positively crave a good buzz. To quote Siegel, "...animals have guided us to a variety of sources of drugs throughout the ages. In AD 900 an Abyssinian herder noticed that his animals were energized after eating the bright red fruit of a tree that would later be named coffee. A shepherd in Yemen discovered the popular Middle Eastern stimulant khat, similar to amphetamine, by watching goats run wild after chewing the leaves.... After sampling the numbing nectar of certain orchids, bees drop to the ground in a temporary stupor, then weave back for more. Birds gorge themselves on inebriating berries, then fly with reckless abandon.... Elephants purposely get drunk on fermented fruit."

If medicinal approval of cannabis for dogs is on the horizon, can acceptance of their recreational use be far behind? Clearly, more research is needed. 🍀

PETA is the People for the Ethical Treatment of Animals. To learn more, visit PETA.org

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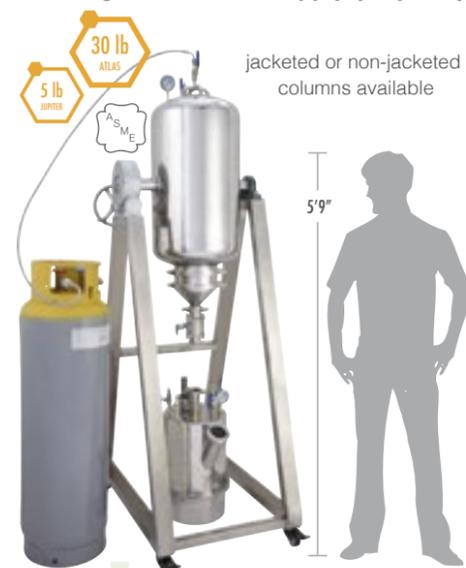
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## DOC TALKS -- CANNABIS AND PETS

### Oregon-based Veterinarian Gives Her Expert Advice

Dr. Moriah Kaufman is a veterinarian who works in the Portland/Gresham area of Oregon. She gave us a vet's perspective on the efficacy and future of cannabis as a treatment for pets. Her opinions and views are strictly those of a scientist and do not necessarily reflect the views of anyone other than Dr. Kaufman, unless otherwise stated.

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►► **Emerald Magazine: How do dogs and cats react to THC?**

MK: It's something we mostly see in dogs. Cats don't really ingest too much THC, because dogs are more likely to go after an owner's edibles. Typically, what we see is hypothermia, dysphoria -- that means confusion, shaking, seizure-like activity -- they're often hyper-responsive to stimuli. Sometimes they'll scream in what seems like pain if you touch them (it may just be surprise). These are signs of confusion and fear, as if they don't know where they are. It's just not a good experience for them.

**EM: What is it about THC that is toxic to dogs?**

MK: Dogs can't choose to be high. So it's like they're overdosing on something that causes negative side effects -- now does that mean that toxic metabolites are affecting their organs? In extreme cases, yes, but in a more traditional sense of the term 'toxicity,' as in a poison, it's not the same thing.

**EM: Do you recommend the use of cannabis for pets in any therapeutic form?**

MK: We're still really far from having good studies and good dosing recommendations for animals. The AVMA's stance on it is [...] there's not enough research, we can't legally recommend it. As of now, the law states it's a drug that doesn't have any therapeutic value.

**EM: What about CBD products? Is the stance the same on that?**

MK: The American Holistic Veterinary Medical Association (AHVMA) has come out with a stance that is open to its value. As stated by the AHVMA,

"There is a growing body of veterinary evidence that cannabis can reduce pain and nausea in chronically ill or suffering animals, often without the dulling effects of narcotics. This herb may be able to improve the quality of life for many patients, even in the face of life-threatening illnesses."

The AVMA is still officially against recommending it, but there are some vets that advocate using it, and there have been some CBD products developed for pets. Some of them have even been developed and tested by vets as well. There's a lot of positive anecdotal evidence coming out for use of these products, so it's certainly a good possibility we'll eventually get to the point where vets are prescribing it, but we're not there yet.

**EM: Do you have patients who use cannabis as a treatment?**

MK: I've definitely had owners say that they give these types of products to their pets, some owners [with] positive results. These are typically in pets who are on a lot of different therapies; animals that either have advanced cancer or severe orthopedic conditions that cause them to be in chronic pain [...]. So for them to start giving CBD oil and then start attributing positive results to it may not be a clear picture of what's really going on.

**EM: In your experience, what are the most common conditions seen in patients that use cannabis?**

MK: Mostly it's chronic pain and cancer. But a lot of the sites that sell these products have a list a mile long of ailments they can treat and cure. I think most people know, or should know, that any drug

that says it can cure anything from muscle pain to cancer, while having no side effects or negative aspects whatsoever, is probably due to some very close inspection and research. Pet owners need to use critical thinking regarding these claims, to determine if the therapy has a real potential to help their pets while also managing their own expectations.

**EM: Does the pet pharmacology world have the same problem with opioid dependence and over-prescription?**

MK: There is some evidence to suggest dogs increase their tolerance to opioids, though it's unclear how much. There isn't a similar epidemic of abuse of the drug as there is with humans, however, I will say there is a potential problem with owners abusing their pet medications. That's always something we think about when we prescribe opioids to pets; is the medication actually going to the pets? Or the owners? But clearly an alternative therapeutic option (like CBD treatment) could help alleviate that problem.

**EM: So there's promise in using cannabinoids as treatment, but you're reserving judgment as a medical professional until more research and results are done?**

MK: More or less. I think some day soon, we'll have the data we need. It's crucial we have more studies on dosing, efficacy and safety in order to feel comfortable prescribing it. As veterinarians, we all took an oath to alleviate the suffering of animals. If cannabis can help us do that, we owe it to them to find out. 🌿

# CANNA COMPANION BRINGS THE ENTOURAGE EFFECT TO ANIMALS

MELISSA HUTSELL

Canna Companion is helping to bring the benefits of the entourage effect to pets.

The company, headquartered in Sultan, Washington, provides supplements for canines and felines of various breeds and sizes. Canna Companion supplements come in vegetable based capsules, are GMO free, and all natural. The products are made from whole plant hemp, and contain a combination of phytocannabinoids and terpenoids.

Canna Companion products are recommended and developed by veterinarians. The company is the result of nearly two decades of research by its founders, Dr. Sara Brandon and Dr. Greg Copas, both world leaders in the study of cannabis science and its applications for veterinary medicine.

The animal scientists, who are also married, became interested in the medicinal benefits of cannabis after Dr. Copas personal experience with it. "He has pretty significant joint disease from previous sports injuries, and is allergic to opioids and anti-inflammatories," described Dr. Brandon. His research led him to try cannabis.

"At the time, we happened to have a Rottweiler who was born with hip dysplasia," said Dr. Brandon. After much research, they began medically managing the canine with cannabis. Treatment proved beneficial, however, "the downside was that he did get high. Luckily, we'd been in the medical field a

long time, and knew what we were watching for," she added. As the years went by, they started to carefully administer cannabis to their other pets. They researched different strains, and dosage structures, along with conducting their own analytical and clinical trials.

Canna Companion launched its e-commerce line of supplements in 2014. The World Pet Association, and the American Pet Products Association, among others, recognize the company, whose products are tested by a third party and come with a certificate of analysis.

Canna Companion products include very small amounts of THC, explained Dr. Brandon. Each supplement has a 3:1- 6:1 CBD: THC ratio. "One thing that we have found is that it really doesn't take a lot [of cannabinoids] to impact pets. In fact, even small doses of CBD, CBG, CBN, and various terpenes affect animals," she added. "With the right ratio, these compounds are more likely to work better and longer together, more so than a high dose of a single compound." This, she said, is the entourage effect. "We are full believers in [this] effect. We've seen way too many case studies to not buy into that."

The company puts an emphasis on the use of whole plant products, specifically hemp, for this reason. It contains traces of THC, active and acid forms of CBD, and multiple other cannabinoids and ter-

penes. When used naturally, explained Dr. Brandon, "The plant will do what you want it to do."

For example, she explained, "The endocannabinoid system (ECS), when provided with the proper compounds, starts a cascade of events which results in reduced situational anxiety," she added, "In a thunder phobia dog, if we administer those compounds about an hour prior to the event, the ECS can get to work before the any anxiety occurs. When the anxiety is triggered, the anxious response is now much less due to the ECS having everything in place, usually without significant sedative effects often realized by more aggressive therapies."

In addition to their own clinical research, conducted in large part by Dr. Copas, the team also communicates and cross references information with pet parents and other researchers.

Dr. Brandon regularly lectures on the information she and her team have collected at local colleges and oncology practices. "These compounds are far more studied than we first thought. We know a lot more about them than other supplements. We're just trying to let people know; it's not something to be afraid of, it's something to learn about." However, she acknowledges that more research is needed. "We may know a lot more than we thought, but it's only the surface of what this system can do for our patients," she said.

Canna Companion products are truly therapeutic supplements, said Dr. Brandon. There are a variety of benefits that pets can reap from hemp. Just like in humans, it can provide comfort and care, help maintain healthy brain function, support mobility, combat anxiety, boost immunity, and aid digestion.

In fact, hemp is nutritious for animals. According to several sources such as Agriculture.com, hemp fiber is used to feed livestock all over the world, including the U.S. and the Netherlands.

"Hemp is high in protein, fiber, and great for the gut. It's also rich in omega fatty acids," added Dr. Brandon.

Of the many reasons that she finds a need for alternative medicine and research such as this, she said that, "the endocannabinoid system is so adaptable. It doesn't too take much to influence, because of that; it has the ability to fill in the holes where other therapies are unable to do so."

Though she recognizes that cannabis is "not a cure all," it may be the missing link to health and wellness for all creatures. 🌿

For more information, visit [CannaCompanionUSA.com](http://CannaCompanionUSA.com)



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In terms of side effects, Dr. Brandon said there are few, if the right dosage and frequency are used. Animals may experience lethargy, dilated pupils, and every once in while, might get a little wobbly on their feet, she explained.

Canna Companion supplements are mainly for canines and felines, however, the company is currently researching administration in the equine community. In addition, Dr. Brandon said, "We have administered our product to pot belly pigs, skunks, parrots, hedgehogs and guinea pigs."

The ongoing research conducted by Dr. Brandon and her team has helped to create a database. Since 2000, the 17-year long case study, as Dr. Brandon described, has studied approximately 4,000 patients.



Dr. Sara Brandon, co-founder of Canna Companion.



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# A NEW WORLD OF OLD MEDICINE

Veterinary medicine is currently at a crossroads with cannabis. Used since ancient Greek and Roman times as medicine for horses and cattle, now classified only as a toxin, a few voices are asking why we know so little about the beneficial effects of cannabis on animals.

MOLLY CATE

Our knowledge has expanded exponentially since the passage of medical cannabis laws around the nation. Attitudes toward cannabis have crossed a threshold toward greater acceptance as more and more medical evidence is accumulated. The world of veterinary medicine is just now approaching that threshold.

Websites, such as PetPoisonHelpLine.com and ASPCA.org, list cannabis as toxic to dogs, cats and horses and focus on how to treat its ill effects. The most common patients seem to be dogs who have gobbled up someone's stash or edibles and are dosed with much more than a therapeutic amount. While it's definitely important to know how to treat the overuse of any substance; the absence of any information on the benefits of cannabis is a disservice to animals and their human companions.

Throughout my research, I came across only one case of death by cannabis -- either human or animals -- in an article titled, "Medical Cannabis: Is It Good for Our Dogs?" by Susan Tasaki, published on Bark.com. As the author points out, the baked goods in question contained both chocolate and raisins, both well known to be toxic to dogs. Interesting omissions in those other articles!

A groundbreaking article from June 15, 2013 published in the American Veterinary Medicine Association's (AVMA) "JAVMA News" announced that a few vets are now joining the conversation about medical cannabis. Author R. Scott Nolen found two vets willing to challenge the pervading anti-cannabis bias among their colleagues, one of them anonymously. The named vet is Dr. Douglas Kramer, who "believes there is ample evidence to support using marijuana in veterinary patients..." Additionally, the

”  
**Marijuana occupies a strange set of honors in the halls of veterinary medicine.**  
 ”

anonymous vet confessed to being "frustrated by the predominant view among vets that marijuana is only a toxic plant." Both asked for an increase in research. But as we know, it is quite the challenge to get authorization to study this federally illegal substance.

As of that article (the most recent info found), the AVMA took no position on medical cannabis while the American Holistic Veterinary Medicine Association officially encourages research. The situation is even more complicated with the pressure of cannabis legalization. An NBC TV 6 South Florida report called "Pot for Pets? Medical Marijuana in the Veterinary Field" stated that, "Marijuana occupies a strange set of honors in the halls of veterinary medicine. On the one hand, many veterinarians are desperate to study it. Reports from pet owners who have used it on their pets, combined with research being done in human medicine, relentlessly pique our curiosity. On the other hand, it holds the dubious honor of being one of the top reasons pets are rushed to emergency clinics! In fact, a 2012 study showed that over a five-year period in which marijuana restrictions loosened in Colorado, the number of marijuana toxicity cases increased fourfold throughout that state."

*Paso Fino had such painful arthritis and degenerative ligament disease that she refused to stand, even on opioid drugs. But a cannabis infusion in her feed got her on her feet and able to walk.*



Articles like "The Lowdown on Cannabis in Veterinary Medicine" by Dr. Heather Lewellan, and "Medical Cannabis: Is It Good for Our Dogs?" by Susan Tasaki, caution California vets interested in cannabis treatment that they are not covered by current medical cannabis legislation. This must serve to chill the curiosity of many vets. Coupled with the decades-long anti-cannabis bias prevalent in vet med schools and in official publications, it's no wonder there is so little known about health benefits, outside of the historical record and anecdotal, though often powerful, stories.

We're in a new world of old medicine. Old because evidence shows that the ancient Greeks and Romans used cannabis to treat horses and occasionally cattle, according to the report, "The History of Medical Cannabis Hemp Used to Treat Horses." Some ancient recipes still exist for poultices (infusions or fresh leaves applied to the skin); seeds in a tapeworm remedy; infused oils used in colic recipes; even pulverized, dried leaves used for nosebleeds. Ancient writings suggested using cannabis as a sedative, for pain relief, and to counter tissue inflammation. Even the U.S. Cavalry carried tincture of cannabis in their field first aid kits.

This same article recounts a most moving story of a woman who successfully treated her horse with cannabis. Her beautiful Paso Fino had such painful arthritis and degenerative ligament disease that she refused to stand, even on opioid drugs. But a cannabis infusion in her feed got her on her feet and able to walk.

The trouble with veterinary uses is that there are no dosage standards and those standards will be different for different species. Clearly, dogs are super sensitive to THC. That anecdotal truth has some science behind it. Dogs have many more receptors for cannabis, making its effects more powerful. But, is that true for cats or horses or other animals? No one knows, yet. All we know so far is that all animals above insects on the tree of evolution have an endocannabinoid system, which gives them the potential to benefit from the plant's various chemical compounds.

As Dr. Kupkee quoted in the NBC TV 6 South Florida report mentioned above, "One thing is certain... changing social attitudes regarding marijuana have created a demand for knowledge and access that vets can no longer afford to ignore. We can only hope that science and research will soon win the day, and provide the answers our profession and our clients are seeking." 🌿



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# The Emerald Gift Guide

The cannabis infused pet care market is thriving. Pet owners can now purchase everything from medicinal oils and edible treats to hemp-sourced bedding and toys. In addition to being rich in nutritional benefits, these canna-pet products are all natural, safe, and environmentally friendly. Take a gander at all of the wonderful cannabis pet products in this month's gift guide.

(above) Sancho, on the Farm. @HumboldtMarijuanaCo



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Sometimes, our furry friends need a little relief too. Miles' CBD Doggy Blend is specially formulated for the beasts among us who can't help but lick their wounds. Miles first tested this blend on his torn ACL and was an instant furry fan. Use it to relieve inflammation and pain by rubbing it on the affected area. One bottle contains 4 ounces of CBD massage oil for pets and 400 mg of CBD.  
[AylaBotanicals.com](http://AylaBotanicals.com)

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**1** Fetching Fashions Kind Dawg Bow Tie \$10

This textile was designed exclusively for Fetching Fashions and is eco friendly! The soft and durable canvas fabric is made of 45% recycled material. This bow tie comes in four sizes (extra small through large) and attaches to any collar with a soft black velcro loop. The Kind Dawg Bow Tie is the perfect accessory for your best bud.

[FetchingFashionsOnline.com](http://FetchingFashionsOnline.com)

**2** KadieCrochets Marijuana Leaf Dog Sweater \$32-45

Each dog sweater is handmade in North Hollywood, California. They can be customized, or ordered in green or tie dye. Dog sweaters are the perfect option for canines in cooler climates! Sweaters are made of acrylic yarn, and come in various sizes. Each is machine washable and dryable. Orders are handmade in a smoke and pet free home.

[KadieCrochets.Etsy.com](http://KadieCrochets.Etsy.com)

**3** Two Modern Hippies Colorful Hemp Rope Parrot Toy \$10-\$30

Your birds will enjoy hours of entertainment while rattling through a cascade of buttons, bells, or softwood that hangs from natural, non-treated hemp rope. Each toy features a sturdy metal ring that opens and closes with ease, making it simple to move from cage to perch, and back again. Handmade and one of a kind, these toys come in a large variety of shapes and colors to fit any birds needs.

[TwoModernHippies.Etsy.com](http://TwoModernHippies.Etsy.com)

**4** Planet Dog Cozy Fleece Comfy Eco-Friendly Hemp Collars \$16.95 - \$23.45

These eco-friendly collars are naturally dyed, and pure hemp -- one of nature's strongest fibers. Collars are made with a nylon-reinforced plastic quick-release buckle for extra durability and safety. Small collars are 1/2 inch in width, and do not have a fleece lining. The medium and large collars are 1 inch wide, and are fleece-lined for optimal comfort and minimal chafing. These collars will stand up to years of salt-water swims, mud puddle baths, snowy romps, and beach rolls.

[PlanetDog.com](http://PlanetDog.com)

**5** Dawne's Weavings STEP-IN Handwoven Hemp Adjustable Harness Dog Collar \$35

This STEP-IN adjustable dog collar is made using red, green and yellow colored hemp twine. The design allows your pet to step into the adjustable sides and clips behind the head with a snap buckle. It measures 1 inch wide; its adjustable harness collar fits medium to large dogs, but can be made to fit small to extra small dogs.

[DawnesWeavings.Etsy.com](http://DawnesWeavings.Etsy.com)

**6** Lacy Sarue Personalized Cannabis Pet Tag \$24

These handmade personalized pet tags are made of stainless steel, brass, copper, and nickel silver. The front of the tag fits up to 15 characters and a phone number fits on the back. The tag is about 1.25 inches in size.

[LacySarue.Etsy.Com](http://LacySarue.Etsy.Com)



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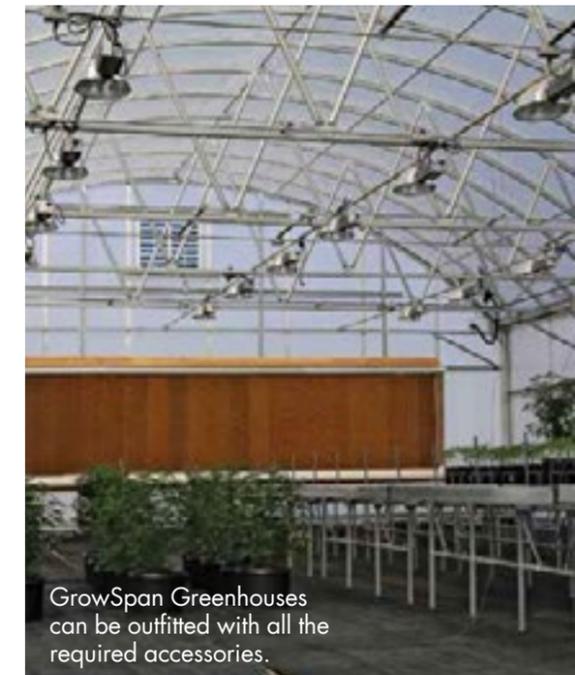
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**1** Sirius Hounds  
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[SiriusHounds.Etsy.com](http://SiriusHounds.Etsy.com)

**2** Betty Woof  
Organic Hemp Rope - For Tug of War - Dog Toys  
**\$m \$9, M \$11, Lrg \$14 + shipping**  
Having a dog is about showing affection and spending time together. Take this organic hemp rope toy with you on your next walk and just play together. It will strengthen your bond and your friendship will grow. By the way; it's totally free from any chemicals and handmade in Switzerland!  
[BettyWoof.com](http://BettyWoof.com)

**3** Honest Pet Products  
Eco Fetchin' Sticks  
**\$18**  
Eco Fetchin' Stick is completely non-toxic, earth-friendly and available in three sizes. It is machine washable and dryable. Each one is made by adults with disabilities in Green Bay, Wisconsin. The entire line of natural dog toys, natural cat toys and natural bath products are made from sustainable hemp and natural wool.  
[HonestPetProducts.com](http://HonestPetProducts.com)

**1** Canna Companion  
Extra Strength Formula for Cats  
Regular Strength for Extra Large Dogs  
**\$39.95 + shipping**  
30 count bag  
Canna Companion is a full plant hemp supplement that promotes overall wellness. Canna Companion helps to support the immune system and maintains healthy neurological function. Supplements encourage a calm demeanor, help ease joint discomfort, and support general joint health while also assisting in "end of life" support. All products are cruelty free, and do not contain corn, wheat, soy, sugar, or GMOs.  
[CannaCompanionUSA.com](http://CannaCompanionUSA.com)

**2** Therabis  
CBD Edibles  
**Prices vary**  
Backed by 25 years of veterinary experience, Therabis products are powered by hemp-derived CBD and other whole plant cannabinoids that are coupled with other powerful ingredients, and designed to address your pet's anxiety, skin and joint mobility.  
[Therabis.com](http://Therabis.com)

**4** Radd Things  
Catnip Pipe & Mushroom  
**\$12.99**  
Rad cats love to get high, too! Radd Things now makes catnip filled pipes and mushrooms for your furry little stoner. Handmade by needle felting artist, Karen Radd, these cute pipes come freshly packed with homegrown Kitty Kush catnip!! Plus an extra fat sack to reload the bowl, and a noise making crinkle toy that cats just love!  
[RaddThings.com](http://RaddThings.com)

**5** Legendary Pet Toys  
Catnip Joints  
**\$6**  
Legendary Pet Toys strives to make quality and unique cat toys. These kitty joints are their most popular product yet! They are purrrrrfectly legal and come in a set of three. Toys are made with eco-felt, fiberfill stuffing and all natural catnip. They can be made with or without paw prints.  
[LegendaryPetToys.Etsy.com](http://LegendaryPetToys.Etsy.com)  
[LegendaryPetToys.Weebly.com](http://LegendaryPetToys.Weebly.com)

**6** Miso Handmade  
Catnip Meoww Wowwy Cat Toy  
**\$15 for the packaged set**  
Meoww Wowwy makes cats go nuts. The purrrrrfect gift for felines, these toys are stuffed with certified organic catnip. They will amuse kitty and their owners for hours. All are handmade for felines in Vallejo, California. Each cannabis leaf has hand embroidered details, and each joint toy features a hand sewn red "lit" end for added effect. They do not contain any actual cannabis, only organic catnip.  
[MisoHandMade.com](http://MisoHandMade.com)

**3** Meatloaf's Kitchen  
Hemp Seed Gluten Free Pot Leaf Shaped Dog Treats  
**\$4.50 - 2 large (4 inch) pot leaves**  
Hemp is a great source of cholesterol-free protein for dogs. These adorable dog treats are rich in magnesium, and hemp oil, which contains the perfect ratio of Omega-6 to Omega-3 fatty acids. These are essential fatty acids, meaning your dog can't produce them and needs to get them in his diet. These treats are gluten-free, nut-free and are hand decorated.  
[MeatLoafsDogTreats.com](http://MeatLoafsDogTreats.com)

**4** Unbridled Botanicals  
Organic Herbal Dog CBD Biscuits  
**\$m Breed \$19.50; Lrg Breed \$29.50**  
Lovingly hand baked to order, these Herbal Dog CBD Biscuits are sure to please any pup. Soft, fluffy, fresh baked biscuits are packed with nutrition, flavor, and healing botanicals. All products are made with organic, human grade ingredients. Great care is taken in creating a quality product with a desire for all animals to be able to access medicine that works, and lacks negative side-effects. Small breed contains 1.5 mg CBD per biscuit; large breed contains 3 mg CBD per biscuit. Each package contains 30 freshly baked treats.  
[UnbridledBotanicals.com/Pages/Animals-CBD](http://UnbridledBotanicals.com/Pages/Animals-CBD)

**5** Treatibles  
Treatibles Wellness CBD Chews  
Small: CBD Chews - Small Dogs up to 5lbs  
Large: CBD Chews - Large Dogs 50 lbs +  
**\$24 small / \$32 large**  
Treatibles chews are made by hand in small batches in the company's California kitchen with a lot of love. Small Breed treats contain 1 mg of CBD per treat. Large treats contain 2.5 mg of CBD each. Customers use the product for a myriad of conditions. All animals have an endocannabinoid system which regulates many homeostatic functions and can provide overall health and wellness. Treatibles are safe, non-toxic, and non-habit forming. All products are vegan, gluten-free, Non-GMO.  
[Treatibles.com](http://Treatibles.com)



**1** Bowser's Pet Products  
Piazza Natural Hemp Dog Bed  
\$140 MED, \$160 LRG, \$190 XL  
This new design was inspired by the Italian Piazza, an open public square and center of public life in many of Italy's towns. Dogs are sure to be drawn to the tufted foam center cushion and will be pampered with the plush overstuffed outer bolsters. The cover features a convenient carry handle and is completely removable for washing and drying.  
[Bowsers.com](http://Bowsers.com)

**2** Earth Dog  
Hemp Dog Blankets  
\$116  
Earthdog hemp blankets are the perfect marriage of durable, colorful hemp canvas and soft, sumptuous recycled fleece. They are incredibly soft and durable and easy to care for, just toss them in the machine and tumble dry on low. These are so nice, you may keep it for yourself! Choose from four colors, all with heather fleece. Measures 42 x 58 inches. Comes in: Blueberry, Leaf, Tangerine, and Ash.  
[EarthDog.com](http://EarthDog.com)

**3** Earth Dog  
Hemp Dog Bed  
\$84 \*\$15 oversize shipping charge  
Earthdog hemp dog beds are constructed with a 100% hemp canvas shell. The removable, washable inner bags are made from 100% unbleached cotton, stuffed with a mixture of recycled poly-cotton, and scrap recycled foam that stays fluffy. They are machine washable and soften with time, making them a wonderfully comfortable resting place. The hemp shells feature four screen printed designs. Small 30 x20 inches; Traditional 35 x25 inches; extra large 45x36 inches.  
[EarthDog.com](http://EarthDog.com)

**4** From the Field  
Shelby The Hemp Mouse:  
Suggested retail price \$5.49  
These are ecologically friendly, biodegradable, healthy toys for happy cats. Shelby, The Hemp Mouse is made entirely from durable hemp fabric and hemp rope, and is filled with organic catnip. Safe for felines, and compostable when its lifespan is done. Shelby, The Hemp Mouse also comes in a refillable model, and a 4 foot long tail model, for hours of chasing fun! Our hemp fabric and rope are imported from Romania. Food coloring is used to stamp the face, so no worries if your cat is a licker.  
[FromTheFieldPet.com](http://FromTheFieldPet.com)

**5** Dr Hemp  
Pet Bedding  
8 quarts \$6.99  
Create a happy, relaxing and moisture-free habitat for your rabbits, hamsters, guinea pigs, chinchillas, birds or other small pets with 100% hemp fiber pet bedding. Specially blended to be four times more absorbent than traditional options, Dr. Hemp's all-natural pet bedding lasts longer, saving you money while providing your pet with a comfortable, healthy habitat. Plus, Dr. Hemp pet bedding is recyclable, biodegradable, and compostable.  
[KengoPet.com](http://KengoPet.com)

**6** Treat Well  
1:1 Pet Cannabis Tincture  
Pricing varies based on location  
Small Pet range from \$25-\$35  
Large Pet range from \$45-65  
TreatWell's 1:1 Pet tincture is specifically formulated for our furry friends using top shelf cannabis flower extract blended with wild salmon and MCT oils. The 1:1 (CBD:THC) ratio targets cancer, glaucoma, liver and kidney function, car sickness, and birthing pain. Tinctures have specific concentrations for small (below 20 lbs) and large (above 20 lbs) pets.  
[TreatWellHealth.com](http://TreatWellHealth.com)

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# POT TALK

With Emily Hobelmann

## EMERALD PHARMS

### BLACK BEAUTY

According to the SC Labs website, researchers have identified over 70 unique cannabinoids within the cannabis plant. The most famous cannabinoid is THC which stands for Tetrahydrocannabinol, best known for its psychoactive effects, and the cannabinoid CBD, or Cannabidiol, is a close second. It's gained much fame in the past decade for its medicinal properties, including its effectiveness in the treatment of epilepsy.



At home, I have this sweet little index card called the SC Labs Guide to the Cannabinoids. It lays out the medicinal benefits of 11 of the most common cannabinoids found in cannabis, including THC, CBD, CBG, CBN, THCA and THCV. For example, the easy-to-read chart lets me know that CBCA is anti-fungal; CBD and CBG are anti-bacterial; and CBN is anti-insomnia.

Still though, most every time I hear people talking about medicating with cannabinoids, it's in reference to THC or CBD, or to the ratio of THC-to-CBD. So I'm pleased to say that the Emerald Pharms dispensary in Mendocino shared a sample of *Black Beauty* with me for this edition of Pot Talk. It's high in THCV, or Tetrahydrocannabivarin, a cannabinoid that is understood to reduce panic attacks, to promote bone growth and, most notably, to suppress appetite, according to SC Labs.

Now, THCV and the depth of its medicinal potential is new information to me, but Patrick Anderson, Lead Educator at Project CBD and Co-Director at Emerald Pharms, knew all about it. He says it has profound therapeutic promise for anti-obesity, appetite control and for the treatment of Type 2 Diabetes. He pointed me to an article called, "THCV Plants Being Grown for Medical Use in California; Cannabinoid May Counter Metabolic-Syndrome Symptoms," published in "O'Shaughnessy's Journal of Cannabis in Clinical Practice," for some serious deets.

So, my first question to Anderson is; Does the effect of appetite control mean no munchies? "Yes, it's pretty much the anti-munchie for a lot of people... It will mute the munchie effect and simultaneously get the body into a more proper alignment with its metabolic process," he says. Toning the system with different cannabinoids -- THCV in this case -- helps bring the body into a more homeostatic balance, which means a reduced appetite, more nutritious food choices and better energy expenditure.

*Black Beauty* contains 7 percent THCV, 12 percent THC, and 0 percent CBD. He says some of their customers find *Black Beauty* to be incredibly therapeutic for mental issues as well as anxiety issues that stem from Post Traumatic Stress Disorder (PTSD). Another cool feature of the strain, Anderson points out, is that it's rich in Myrcene, an antispasmodic terpene that is also found in hops.

Who grew it? George Bianchini, a grower from Marin County who initially "discovered" the strain, or brought the strain onto the community's radar for its TCHV content. See another "O'Shaughnessy's Journal" article in the Winter 2015/2016 issue, "The story of Black Beauty, as Told by its Savior."

According to the article, the strain originally came from Oaksterdam. It was their CBD strain, known as Pineapple Purps or Purple Pineapple. It's a whole crazy story -- Bianchini was cultivating it, but then disposed of the plant in anticipation of a raid that never happened. He revived the plant after pulling it from the garbage, took some clones and grew it out.

The super dark purple, even black, cannabis plant was an odd duck. It went through some kind of bizarre metamorphosis as he grew it, and he found that it flowered under 18 hours of light. It contained zero CBD when he got it tested, but it had that elevated THCV content, which is apparently rare. Bianchini took steps to preserve the genetics, and it just might be a more widespread strain in the future.

Shout out to the "O'Shaughnessy's Journal" for capturing that story! There's a lot more to it... You gotta check it out.

### Black Beauty

As noted, the sample has 7 percent THCV content, and 12 percent Delta-9-THC with no CBD; it also has significant levels of the terpenes Pinene, Ocimene and Myrcene. The color of the nugs is a very deep purple on faded green with muted orange or tan hairs. The sample is on the drier side, which worked well for a joint. The smell is rich and earthy, a little skunky with an air of sweetness. The flavor is well-rounded too, not overpowering, floral with a dank whisper to it.



*Black Beauty* doesn't roll right over me, it did not get me too intoxicated. I got a nice head change from a couple puffs, it brought on a clear headed yet relaxed state of mind. So you can consume it without getting ripped, and it doesn't lead to an uncontrollable attack of the munchies. Maybe that's counterintuitive, but it's a testament to the huge variety of cannabis effects.

Emerald Pharms is a really neat dispensary, and I recommend checking it out. It's got a beautiful and professional atmosphere and they offer a wide variety of the highest grade organic products, including flower, extracts, tinctures, sprays, topicals and other cosmetic applications. And it's a great access point for education and for the experience of cannabis therapeutics.

Thank you to Emerald Pharms for the hospitality and for the good vibes. 🍀

You can find them online at [emeraldpharms.com](http://emeraldpharms.com) and on Instagram: [@emeraldpharms\\_ig](https://www.instagram.com/emeraldpharms_ig).

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## Veterinarian-Formulated Tinctures for Pets

LESLIE CLARY



### VET CBD

The olive oil based tincture can be administered directly into the mouth or applied to food.

”

While the majority of Vet CBD patients are dogs and cats... all animals can benefit from the relief the medicine offers.

”

The testimonials on the Vet CBD website are both poignant and passionate; A ten-year-old bulldog named Banjo who suffered from arthritis acts like a puppy after just a few days on the tincture. Mynka, a rescue terrier, had severe separation anxiety when her owner had to go to work and often peed on the carpet. A few weeks of Vet CBD and she's calmer, more secure and having fewer accidents. Penny, a black tuxedo cat with cancer, uses the tincture for seizures and neurological disorders.

The results are promising and offer a look into the future of veterinary medicine, one tincture at a time.

While the majority of Vet CBD patients are dogs and cats, said Kate Scott, chief operating officer, all animals can benefit from the relief the medicine offers. "We have clients who have used the medication for birds, rats, [and] bunnies," she added, "Dr. Shu is currently working with some equine people to help that community."

Dr. Tim Shu, is a Los Angeles veterinarian, and founder of Vet CBD. He is a medical patient himself, and knows first hand how powerful cannabis can be for a number of ailments like pain, anxiety and depression. Animals experience these problems in much the same way as humans, since animals have the same endocannabinoid system as people. For this reason, Shu thought that if he could develop a medication using strains high in CBD, animals could benefit greatly.

The result was Vet CBD's flagship -- and only -- product, an olive oil based tincture that can be administered directly into the mouth or applied to food. This all-natural product is sourced from full flower and is non-psychoactive. Numerous pet owners have found the tincture highly helpful for arthritis, anxiety, seizures, inflammation and nausea.

Results are usually seen after 24-48 hours, and in some cases, those results are dramatic. In

many testimonials, pet owners have been able to wean their sick dog or cat from pharmaceutical drugs and vastly improve their quality of life by administering the tincture.

The team members at Vet CBD are equally grounded in animal welfare and bring years of animal science to the company. Scott is a registered veterinary technician with more than a decade of experience in emergency and critical care medicine. Product consultant, Amber Corneiller, is also a registered veterinary technician who has worked as an ER veterinary nurse and has a passion for exotics and wildlife.

This combined expertise adds a legitimacy to the company and its products, which is reassuring for pet owners who may be desperate to help their ailing pet, but are unsure if cannabis is a safe option.

To address that fear, Vet CBD's Resource Center, located on their website, provides a number of articles for prospective customers to read and educate themselves. "The truth about CBD: The Important Stuff Explained" gives a concise and easy-to-understand overview of CBD, and explains such things as the differences among single molecule CBD, hemp-sourced CBD and full flower CBD. Other pieces offer information on toxicities, or dental tips for dogs and cats.

**At this time, customers must hold a valid 215 recommendation card to purchase Vet CBD products. They are available at dispensaries throughout the state. Visit their website at [VetCBD.com](http://VetCBD.com) for more information.**



Writer Leslie Clary with her beloved pets.



# High Hipsters

360 Degrees of High!

SHANNON PERKINS

It's just after 4:20 p.m. in Los Angeles on a rare, rainy Sunday afternoon. The High Hipsters are holding a sesh at their home, or as they call it, "the Dabbin' Cabin."

Meet Alice and Clark, aka the High Hipsters. This dabbin' duo create and broadcast videos on YouTube about hot pot products and classic cannabis culture. One of the things that sets the High Hipsters apart is their 360 degree, virtual reality (VR) cannabis content, as well as livestream sessions, and regular 2-D videos.

Always lit and always hip, the High Hipsters live on the edge of fashion, technology, and cannabis. They rock ganja garb like "Weed Queen" and "Weed Genius" pins, knee-high socks with high-grade pot pictures, bud boutonnières, jewelry, t-shirts, dresses, ties, and much more. In January, Alice and Clark were featured panelists at the Los Angeles High Times Business Summit as a voice on cannabis social media.

As individuals, they have unique and melodious voices. The blend of them together is perfectly suited for radio or podcast. Personally, I enjoy listening to their YouTube videos on my morning commute because their shows are informative and upbeat.

In the Dabbin' Cabin, the High Hipsters have a cannabis chic motif, pure pot positivity. A bouquet and bong pose patiently, ready for a closeup, and a toké up. Pot pillows chill on the sofa. Dab rigs stand by to fill their destiny, and your lungs. There is even a tiny house ashtray for the joints to rest and eventually turn to roach and ash. They offer me a Sprig, a cannabis infused soda, and we got right to work on a joint and some dabs.

Using an old-school, pencil to paper production calendar, the High Hipsters chart their months in advance. They have a constant flow of ideas for their channel, and new videos are uploaded every other day. With topics like "How to Roll a Backwards Joint" and "Dank Double Dates," if you want some company while you burn one down, tune-in for their live-stream smoke sessions. In between filming, editing, and uploading, the High Hipsters research and sample new products, companies, and events. Though their calendar strategy is old-school, their VR video capture is on trend.

The High Hipsters are all about innovation. VR is one of the fastest growing trends and that is one of the reasons Alice and Clark create 360 degree content. Clark says, "the future of media is going to be a lot more interactive. We are the early adopters, the pioneers, but eventually everyone will use and watch VR." From a director's perspective, he points out that "in film, the director tells [the



viewers] where to look. In VR, that is stripped away. I started pulling from my experience in theatre, because theater is more 360 degrees." A surprising sound or a cast member's entrance from behind the audience may change the focus away from the stage, literally creating a head-spinning, interactive experience. "We want to provide brand new ways to enjoy stories, with information and action coming from above, below, and all sides."

"There are no blind spots in VR, everything is in the shot. More work and effort goes into the VR videos, but it's worth it. What we're doing is creating an experience, a feeling like [our viewers] are here with us," Alice explains.

Indy, short for Indica, is their cannabis-loving cat who makes cameo appearances in many of the VR videos. He is a little camera-shy, but since VR captures everything, Indy has become a star. To see more photos, check him out on the Instagram hashtag #DabbinCabinKitty. Regarding cannabis pet products, Alice and Clark are big supporters, but do not yet use any for Indy because he is still a young, healthy kitty. Alice mentions that "it makes sense to give cannabis to pets with arthritis or anxiety. Or if [the product] is made specifically for that pet and [his or her] needs." The High Hipsters do not blow any pot smoke or vapor directly in Indy's face or general space. They do not want him to get high for the sake of being high... that's their job.

Some of their VR tours include Hawaii, Catalina Island, Venice Beach, the Los Angeles Arboretum and Botanical Garden, the Dabolition Derby, Ruff-House Studios, and of course, the Dabbin' Cabin. Those 360 degree views and perfect dab opportunities will leave you breathless... and maybe coughing a little, too.

The High Hipsters are masters at keeping the conversation going and the good vibes flowing. For their series "Dank Double Dates," Alice and Clark are looking for more pot power couples to meet, mingle, and discuss cannabis. They describe it as a show, "where we sit with other couples that love getting high together!" Viewers can learn about other cannabis industry professionals, and laugh at common relationship quirks, or just plain stoner moments. In previous episodes, we met Chef Holden from Altered Plates and Suzannah Jagger from Buds and Thorns, as well as Alysia and Leighlani from Suzy Oh's and PuffPuffPassCo. You and your sweetie could be next! Imagine, sitting in the Dabbin' Cabin, warming your hands over a hot joint, and passing around the High Wave Tsunami Vape, a portable dab rig/vape hybrid. Learn more about it on their recent review on YouTube, or catch up with them on Instagram!

Get High with the High Hipsters! Check them out on:  
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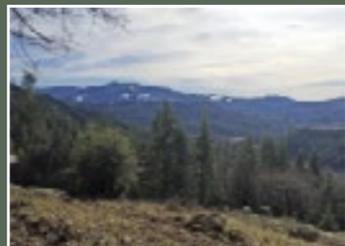
±40 Acres outside the fog line featuring southern exposure, large pond, timber, views, and building sites.

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±20 Acres featuring bay views, Redwood and Eucalyptus trees, building site, and open grasslands.

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±15 Acres featuring a 2/2 house, guest cabin, shop, and end of the road privacy.



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**DINSMORE – \$849,000**

±36 South facing acres with easy access right off Highway 36! Parcel features commercial power, two cabins, multiple flats, high volume spring, timber, and beautiful views. Agricultural permits have been filed with the County. Owner will carry!

**DOUGLAS CITY – \$400K**

±80 Acres featuring several flats, cabin, well, and views.

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±40 Acres featuring southern exposure, privacy, creeks, and a rustic home.

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±38 Acres featuring terraced flats, pond, and well developed roads.

**FERNDALE – \$535,000**

±160 Ridgetop acres featuring timber, end of the road privacy, and spectacular views!

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±100 Acres featuring a well, building site, and views of Trinity Lake. Owner will carry!

**BERRY SUMMIT – \$399,000**

±40 Acres featuring timber, meadows, views and hunting cabin.

**HAWKINS BAR – \$99,000**

±2.09 Acre parcel with a small existing flat and PG&E and community water to the property.

**JUNCTION CITY – \$229,000**

±24 Acres featuring a creek, building site, and power.

**FEATURED LISTING**  
**FERNDALE – \$1,750,000**

±480 Majestic acres located between the town of Ferndale and the Pacific Ocean! This undeveloped parcel is waiting to make your recreation, homestead, agricultural, or conservation dreams come true! Property features amazing ocean views, springs, open meadows, flats, timber, easy access, Fleener Creek running through it, and so much more. Don't miss out on your opportunity to see all this amazing parcel has to offer!



**REDUCED PRICE**  
**BERRY SUMMIT – \$295K – \$750K**

Five parcels near Berry Summit! Conveniently located just 30 minutes from Arcata, these wooded parcels feature views, springs, and creeks. Some parcels are developed, call today for more information.

**DINSMORE – \$2,000,000**

±20 Acres industrial flat featuring river frontage, well, industrial building, and more!

**MAD RIVER – \$499,000**

±40 Developed featuring views of Ruth Lake, open meadows, pond, cabin, and other outbuildings.

**RUTH – \$499,000**

±75 Acres featuring a wood frame cabin, sheds, 2 ponds, year round spring, seasonal creek, south-facing open grasslands, and agricultural improvements.

**MAPLE CREEK – \$695,000**

This rare ±65 acre riverfront property features open meadows, views, creek, springs, and easy access.

**ARCATA – \$1,200,000**

±7.6 Residentially zoned acres within Arcata City Limits! Great subdivision and development potential!

**SHOWERS PASS – \$425,000**

±80 Remote acres featuring privacy, year round spring, natural pond, 2 cabins, 3 developed flats, and mixed timber.



# Mary Has Something to Offer Fluffy Too

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ASHLEY PRIEST

When it comes to the herb, Mary Jane has long been a friend of many and there are more consumption methods available today than ever before. One of the leading companies of alternative medical cannabis consumption techniques is none other than Mary's Nutritionals.

Their product line consists of CBD transdermal patches, a Charlotte's Web Infused Topical Gel Pen, Muscle Freeze topical cream and many more products that have quickly become the go-to for patients looking for consistent and effective relief from pain, inflammation, anxiety, arthritis and other ailments. Mary's Nutritionals doesn't just produce alternative treatment options for humans, they also offer products for our four legged friends, too.

Mary's Pets CBD Gel Pen is clinically formulated for dogs, cats, horses, and all other mammals over 5 lbs. If your four-legged furry friend suffers from any of the ailments listed above, perhaps CBD is just the thing they need. If you're looking for a high-quality CBD product for your pet, you can be reassured that every product manufactured by Mary's are tested both in-house and by independent, third party quality control labs. This includes raw materials, extracts and finalized products.

Manufactured in Denver, Colorado from high quality 100 percent organically grown hemp by Elite Botanicals, the Mary's Pets CBD Gel Pen is available at retailers across the nation and online at TheGreenPetShop.com.

To learn more visit [MarysPetShop.com](http://MarysPetShop.com)

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## TREATIBLES

*Hemp-Derived Health and Wellness for Pets*

MELISSA HUTSELL

” Raising awareness starts with training staff at pet stores to successfully understand how products work. ”

Thousands of pet owners are turning to the cannabis industry for the health and wellness of their animal companions. For centuries, humans have sought relief from the plant by ingesting it – and now – so can pets.

Pets are one of the industry’s newest clientele, thanks to companies such as Treatibles, which offers infused edibles for animals. The Oakland-based business was founded in 2013, and is a branch of the (human) edible brand, Auntie Dolores. Their lineup currently includes blueberry and pumpkin flavored treats, dropper bottles, and gel caps intended exclusively for pets. This April, the company will introduce its grain free line of goods.

Treatibles’ pet products are made from hemp-derived phytocannabinoids, contain CBD and are therefore non psychoactive. Other ingredients include: peanut butter, organic coconut and hemp seed oils, applesauce, and turmeric.

Ingredients such as turmeric have long been used as both a food and medication. The spice is known for giving curries its yellow color, and for its use in Ayurvedic medicine. Several studies, including an M.D. Anderson Cancer Center review published in the “Journal of Phytotherapy Research,” have shown curcumin (the active ingredient in turmeric) to help regulate inflammation and improve cardiovascular health. Other research suggests that in humans, curcumin could have the potential to slow down chronic illnesses and neurodegenerative disorders.

As for the coconut oil, dogs love the taste, said founder and CEO, Julianna Cerella. In initial test phases, blueberry also showed to be a favorite among animals.

A variety of animals – such as cats, dogs, rabbits, hamsters, horses, pigs, and more -- have proven to enjoy and find relief from Treatibles. According to pet owner testimonials, the products have successfully helped with behavior, shinier coats and pain management, among more.

Carella, who also founded Auntie Dolores, said the idea to launch a pet care line was the result of an accident. “I actually had some friends whose dog got high.” An Auntie Dolores Chili Lime Peanut had fallen onto the ground, and was eaten by the family dog. “The poor dog got super high from one peanut.”

The dog was ok, and although it was very scary, it sparked Carella’s interest.

The realization of the existence of an endocannabinoid system in animals caused Carella to question whether – in the right dosage – pets could benefit from the non-psychoactive chemical compounds of cannabis. So, she began experimenting. After successful trials, she launched the Treatibles line.

The company goes to great lengths to ensure their high quality products are reliable, safe and consistent, explained Carella. Each of the company’s products is gluten free, and lab tested.

“We take a lot of [the] same process and know how [to] from our other product line, Auntie Dolores, including the cannabinoid infusion process,” she added, “There are a million ways to do it wrong, and only [a] few ways to do [it] right.” The expertise gained since launching Auntie Dolores in 2008 has been transferred to the Treatibles line.

The Oakland-based lab, CW Analytics, tests ingredients such as hemp seed oil and CBD, before they are added to recipes to make sure they are free of heavy metals, molds, and pesticides or contaminants. Finished batches are then tested again, said Carella, to ensure that cannabinoids levels are accurate, and that there is virtually no THC. All results are then posted on the company’s website.

Transparency is an important part of the process, said Carella, who added that Treatibles and its partners are committed to education and understanding.

Raising awareness starts with training staff at pet stores to successfully understand how products

work, said Carella. In turn, staff members can guide customers through their curiosity and confusion.

Due to stigma, and a lack of information on the topic, Treatibles feels a responsibility to share what they've learned with the public. Carella said that in addition to being one of the only companies to share their lab results online, they also publish information on the science of cannabis, and are actively engaged with their customers through their website and on social media.

"Pet owners should be able to access this information and make choices for their animals," she said.

The company also works with veterinarians. "We've got over 40 vets using our products in practices right now," she added. "We've been able to bring them to the table to help us." For example, Treatibles works with vets to answer any questions about recommended dosages or the effects of a particular ingredient on a specific species. Additionally, the company works to connect customers with vets via their store locator.

Customer feedback and engagement is engrained in Treatibles' business model. Upon selling their first 2,500 products, Carella said, the company attached feedback cards. The response was surprising: approximately 70 percent of customers responded to the survey.

Survey results and customer testimonials have proven valuable. Carella said that the company has been able to create a database of information, such as at what age, for what condition, and what other

”  
**Pet owners should be able to access this information and make choices for their animals.**  
 ”

(right)  
 Treatibles CBD Oil drops for dogs, cats, rabbits, and all small to medium sized animals.



(above)  
 Treatibles Hemp Wellness Dog Chews in Blueberry flavor.



(left)  
 Treatibles Hemp Wellness Dog Chews in Pumpkin flavor.

animals are seeking relief from infused products. By soliciting information from customers, she added, Treatibles is working to fill the information gap.

Carella said that learning just how many ailing animals there are out there is one of the biggest surprises she has encountered so far. In fact, the rate of chronic illnesses (such as arthritis and cancer) in dogs and cats has dramatically increased, according to a study conducted by the Banfield Pet Hospital.

"The rate of cancer and epilepsy in dogs is shocking," she said. "It's a real eye opener. There is a huge need for alternative [forms of nutrition and medicine]."

"Sadly, there are a lot of sick animals that need to restore harmony."

Customers seek Treatibles for a myriad of reasons. "Many express dissatisfaction [with vet-recommended pharmaceuticals] because of the side effects, or because it wasn't effective at all," she said. Others are looking for more affordable, and naturally nutritious, options that are void of fillers.

"Pet owners, once they find out that there's a non-psychoactive option, it is kind of no brainer," said Carella. 🍀

**Visit their website for more information, such as testimonials, lab results, ingredients, proper dosages or store locators at [Treatibles.com](http://Treatibles.com).**

**The company welcomes all questions and concerns, and encourages those who are interested to reach out. Treatibles are available for purchase in all 50 states.**

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**SNAKE OIL**  
 SHARON LETTS  
**CBD SCAMS AND PET SUPPLEMENTS**

When our pets are sick, it's hard to know, as they can't tell us how they feel. We must be even more proactive in their care than our own for this very reason. In that same vein, due to their lack of verbal communication, how can we tell what's working and what isn't?

Digestive issues, fatigue, and lack of appetite are typically the red flags that prompt us to take our pets to the vet. Examining what they've ingested is typically a first step in analyzing an ailment; begging this question, what are you feeding Fido?

Just as we take supplements and eat beneficial foods to keep our bodies well, our pets require the same nutrition to keep their systems healthy, while keeping them happy – for illness reaps fatigue and depression in pets, just as it does in us.

Dogs and cats have a similar biological make up as humans and contract many of the same maladies. Digestive issues, chronic pain, diabetes and cancer are more common than ever; the Veterinary Oncology and Hematology Center states that cancer accounts for nearly 50 percent of all disease-related deaths.

According to AnimalEndocrine.com, dogs and cats have an endocrine or an endocannabinoid (eCS) system identical to humans with the same function to deliver hormones to the blood stream and regulate the body's glands and organs. Hormones act as chemical messengers with many critical functions.

Dosing pets with THC is tricky, but just as with humans, they can get used to its effects, too. The "start low, go slow" rule is just as applicable with animals. CBD only supplements offer relief without the worry of a neurological or central nervous system upset, but with this newfound knowledge also comes foolery.

With the plethora of CBD pet options on the market, there is also a greater margin for error, or more specifically, deceit – especially where CBD from imported industrial hemp compounds are concerned.

Industrial farming differs widely from food grade or traditional farming, harvesting and manufacturing of food and products for human consumption. This is really the crux of the often talked about CBD scams.

According to Project CBD, only products using organic, whole plant cannabis offer the best medicinal benefits, especially where a high content of CBD is required for real healing and/or prevention against real ailments (see sidebar on Project CBD warnings).

As one theory goes, original hemp plants like that used to make the alleged Holy Anointing oil in the Bible, only measured in at around four or five percent THC. We as a species upped the psychoactive properties of the plant.

The process began with farmers hybridizing the THC down to lower levels within the cannabis plant. In doing so, the CBD

was also hybridized, making the plant less psychoactive and more medicinal.

Granted, if you are fortunate enough to harvest fresh, organically grown (food grade) hemp and use the bud as you would a cannabis flower to make medicine, there may be more clean CBD counts, but that's not what's happening in the global market right now.

The minute CNN aired Dr. Sanjay Gupta's intelligent documentary "Weed," which illustrated the

### CBD Checklist:

Is the package properly labeled with test results (including pesticides & toxins) from a certified lab?

Is the percentage of CBD and source thereof listed?

Is the CBD from cannabis or hemp?

Is the hemp source listed? Beware of "stalk" or "industrial" language.

*Note: More information on what to look for is listed on Project CBD's web site. ProjectCBD.org*

### Pet Dosing Guidelines

Via "The eCS Therapy Companion Guide" by Regina Nelson, PhD

Whether you are dosing your pet with CBD only, a stronger cannabis oil, or a CBD/THC combination (i.e. 1:1, 2:1 ratios, etc.), care must be taken to follow specific protocols, just as you would with any other medication.

Regina Nelson's endocannabinoid guide offers the following protocols for cannabis oil concentrate:  
1 gram of Cannabis Oil = 1 ml of Cannabis Oil = 1000 mg of Cannabis Oil (approximately)

To create a suspension, dilute the cannabis oil with olive oil and mix well, as follows:

Fill a 1 ml syringe with diluted cannabis oil with dose:  
1 ml of diluted cannabis oil / .25 ml of diluted cannabis oil / 16 mg of cannabis oil / 4 mg of cannabis oil

### Excessive Dosing Antidote

Excessive dosing is often referred to as an overdose, but when dealing with cannabis it's a misleading use of the term. Cannabis will not stop the heart, but it will affect the central nervous system, which may feel like a heart attack if dosing excessively. Heart palpitations and jitters have been noted in pets ingesting too much THC. Extreme amounts could induce a coma.

A visit to the emergency room would have a doctor prescribing valium or some other muscle relaxer to take the edge off, but there is a safer solution in a supplement called Choline.

As noted in Nelson's guide, Choline mimics Vitamin B in our system. An essential nutrient, Choline is a precursor of acetylcholine, a key neurotransmitter. THC lowers acetylcholine levels.

Choline brings them back up, mitigating the euphoric effects of an excessive dose.



potential for cannabis to benefit children with severe epilepsy, the industrial hemp market became a viable option to many.

Add the industrial hemp option to pet supplements and the muted mutt has suddenly become an unwitting accomplice.

While the Federal Drug Administration (FDA) must support the Drug Enforcement Agency's (DEA) misinformation that cannabis or hemp are not beneficial, the FDA was all too eager to provide a helpful list (links below) of companies falsely claiming benefits from lesser compounds, namely industrial hemp.

One can safely assume the CBD pet market reflects the FDA's findings on scammers, as just listing CBD on a package doesn't really cut it in the world of verifiability. The product still needs to be tested for CBD content, and even then a layer of truth may be missing depending on semantics.

As with any medication, do your homework and read the fine print. Know that your pet has functioning biological systems to nurture with good medicine, just as ours do, and prevention is key. For just as we must ingest plant-based medicines to strengthen our own systems, so must animals.

CBD products derived from industrial hemp potentially have several problems:

- Industrial hemp typically contains far less cannabidiol than CBD-rich cannabis strains so a huge amount of industrial hemp is required to extract a small amount of CBD. This raises the risk of contaminants as hemp is a "bio-accumulator"—meaning the plant naturally draws toxins from the soil.

- Hemp-derived CBD and refined CBD powder lack critical medicinal terpenes and secondary cannabinoids found in cannabis oil. These compounds interact with CBD and THC to enhance their medicinal benefits.

- It's against federal law to use hemp leaves and flowers to make drug products. Hemp oil entrepreneurs attempt to sidestep this legal hurdle by dubiously claiming they extract CBD only from hemp stalk before importing it to the U.S., a grey area activity at best.

# A GEM OF KNOWLEDGE ABOUT ST. PATRICK'S DAY

JAMES PRIEST

St. Patrick's Day is just around the corner. The time to get out your green is here once again. This year many people will be enjoying top shelf green two different ways. With cannabis now legal in several states, many people will be blazin' on some good green to accompany their favorite green accessory for the day.

Shamrocks and shenanigans will fill the streets and a festive party will sweep the U.S. on March 17th. What once started as a religious holiday long ago has become a celebration of Irish heritage, oh yeah... and drinking. The first official parade celebrating St. Patrick's Day in America took place in 1762 in New York. When you celebrate this festive green holiday this year, there's a few things you may want to know.

- The day is often called St. Patty's Day but this is incorrect. The proper term is St. Paddy's Day. Paddy is the abbreviated name for Patrick, whereas Patty means Patricia.

- Drinking is allowed on this day as it is a day of feast.

- The four-leaf clover has nothing to do with St. Paddy's day.

- "Slainte" pronounced "SLAN-cha" is the word used in a traditional Irish toast meaning "health."

- Green beer is actually black and it's called Guinness (Guinness is an Irish dry stout produced by Diageo that originated in the brewery of Arthur Guinness at St. James's Gate, Dublin.)

- "Erin Go Bragh" means "Ireland Forever."

While this holiday is usually reserved for drinking, this year a new green is on the scene. Instead of a shamrock, try a cannabis leaf instead. Show your support for the leaf and the unity it represents. If you're looking to celebrate this St. Patrick's Day with some green, here are a few strains that seem to be popular this time of year.

- *Green Crack* AKA *Green Cush* is a spunky sativa that many will enjoy to keep them feeling right as rain throughout this festive day.

- *Pot of Gold* is a strong indica that will help you stay relaxed while all the drinking goes on. This is also a great strain to end the day's festivities and fall into a restful slumber.

- *Shamrock OG* is another strong indica that may be the good luck strain you need this St. Patrick's Day.

- *Four Leaf Clover* is a hybrid that you may enjoy this holiday as long as you know it's not actually part of the Irish holiday.

I used Leafly.com to locate *Green Crack* in a few major cities at these dispensaries: Medicine Man in Denver, Colorado, Golden Dispensary in Goldendale, Washington, Nectar Cannabis in Eugene, Oregon, and City Compassionate Care in L.A. WeedMaps and Allbud are also valuable resources that can help you find what you're looking to score this St. Patrick's Day, or any other day of the year. With deals, locations, and reviews, these peeps are like your lucky charms! 🍀

## Did You Know?

Ireland, sometimes called The Emerald Isle, can be found in Western Europe and contains a population of 6.378 million citizens, according to 2011 U.S. census reports. Historians say the earliest evidence supporting the presence of people in Ireland was 10,500 BC.

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# Irie Maid

BY NORA MOUNCE

## Ingredients

- 4 thin slices of cucumber, divided
- 2 ounces Irish whiskey\*
- ½ ounce St-Germain liqueur
- ¾ ounce fresh lemon juice (half a lemon, roughly)
- ¾ ounce simple syrup
- 1 dropper high-CBD cannabis tincture

*\*If you want to stay loyal to Irish blood, use Jameson Black Barrel Whiskey. Jameson's distillery is located deep in the heart of Ireland's republic, in the "rebel city" of Cork, home of IRA leader, Michael Collins! Many Americans would be remiss to know that Bushmills is distilled in Northern Ireland, another country entirely, also known as the United Kingdom!*

## Directions

In a cocktail shaker, muddle two slices of cucumber. Add all remaining ingredients and fill shaker with ice. Shake vigorously and strain into tumbler or cocktail glass of your choice.

I like this drink up (it's the Irish in me), but if the almost straight booze profile is too much for you, try it on the rocks. A little melted ice can sometimes be your saving grace the next morning.

Float the dropper of CBD tincture and remaining cucumber slices on top.

Drink to your freedom.

St. Paddy's Day is the best holiday of the year, a claim I will fight to my death. As a youngster, I ate too many Safeway brand, green sugar cookies and in college, I regrettably drank my body's weight in Guinness on more than one occasion. But I was lucky enough to be from a good family, where my dad claimed to be Irish (we're certainly pale enough) and my mom cooked a delicious, traditional St. Paddy's Day meal every year. But more meaningful than the trappings of celebratory food and drink, in the old country, St. Patrick's Day is a family-friendly holiday to honor the republic's hard-won history.

In Ireland, all businesses are closed on St. Paddy's Day, except the pubs of course, where people start gathering with traditional music and pints of Guinness well before noon. Back stateside, save this "green" cocktail until after the kiddos are in bed dreaming of leprechauns. You'll appreciate it that much more. A riff on a whiskey sour, the refreshing cucumber and herbaceous St. Germain liqueur harmonize to suggest that spring is just around the corner. A dropper-full of your favorite CBD tincture will keep things mellow and just maybe, bring you the luck of the Irish.

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# Happy Saint Patrick's Day!

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## Grain-Free Peanut Butter CBD-Infused Doggie Treats

BY NORA MOUNCE

Deciding to medicate your pet with cannabis is not easy; it can be hampered by a lack of information and horror stories of pups getting into the wrong cookie jar. Let's be clear right away – we're not talking about getting your dog high! Due to the continued federal prohibition of legal cannabis, the medicinal qualities of the plant are still terribly under-researched. But more and more loving pet owners are finding that dogs suffering from arthritis, joint pain, cancer and anxiety are responding to high CBD- tinctures with dramatically positive results.

It's difficult to know whether to ask your vet about CBD tinctures for dogs, but most likely, your vet will simply refer to a lack of scientific data. But if you're unsatisfied with the cost, efficacy and risks of giving your pets pharmaceutical meds, a CBD tincture is a great option. In California, Treatwell's Pet Cannabis Tincture is available with a 215 card at various dispensaries. Compounded in two formulas, the 1:1 CBD to THC ratio is for large dogs (over 20 pounds) and the 20:1 CBD to THC ratio is for small dogs. What this means in scientific terms is the 'small dog' dropper contains 5 mg CBD and .25 mg THC, while the 'large dog' dropper has 9mg CBD and 1 mg THC. In layman's terms, the levels of THC are so low that you can expect minimal (if any) psychoactive effects on your pet. But THC is a valuable component of the medication – CBD, one of the 113 cannabinoids present in cannabis, needs THC (the plant's best known cannabinoid) for efficacy.

For smaller dogs, start with a half dropper of the formula. The tinctures are salmon oil based to promote digestion and tastiness. I either shoot the dropper straight into my husky's mouth (she's cool with that) or on top of her kibble.



If you're still waffling on the issue – try this recipe! An easy, grain-free doggie treat, this recipe yields about four dozens treats, depending on cookie cutter shape and thickness. By incorporating only 6 drops of the 1:1 formula into the dough, only six mg of THC are spread throughout 48 dog treats! That is a very, very low dose designed to keep nervous pet parents feeling comfortable about trying out cannabis for Fido.

For my dog, a ten-year-old husky named Lula, these treats wouldn't provide enough impact. Suffering from muscle loss, arthritis and severe anxiety, she was refusing almost all food last summer. Fearing the worst, I mentioned her poor appetite to a friend whose labrador was 13 years old and suffering from cancer. The CBD meds provided her lab some precious comfort. Her words were like a light bulb for Lula's sake. With the hope of treating her low appetite and increasing anxiety (accompanied by countless bathroom accidents) I quickly shelled out \$50 for the Treatwell tincture.

Money well spent is an understatement. Within a week of giving her the cannabis tincture, Lula was back to eating two square meals nearly everyday. She still experiences some anxiety and her chronic health issues are irreversible, but six months later, medicated Lula is a much happier and healthier husky. Appetite restored, Lula and her doggie friends can't get enough of these homemade Grain-Free Peanut Butter Doggie Treats!

### Ingredients

- 1 ½ cup coconut flour  
(plus a few more tablespoons  
for rolling out dough)
- ½ cup peanut butter
- 3 eggs
- ½ cup coconut oil, melted  
then slightly cooled
- 1 medium sweet potato  
(peeled, boiled and mashed -  
should yield about 1 cup)
- 6 full droppers Treatwell 1:1  
Pet Cannabis Tincture

### Instructions

Preheat oven to 350 degrees. Combine all ingredients in a large mixing bowl.  
Roll dough out gently onto a cutting board dusted with additional coconut flour. Roll out to about 1/4 - 1/2 inch thick (thicker will yield fewer, but sturdier, treats). Cut out shapes using your cookie cutter of choice.  
Transfer gently to a parchment lined baking sheet. Bake for 12-15 minutes (check at 12). Treats should have just started to turn a slightly golden color around the edges. Carefully lift each treat onto cooling rack. They are fragile!  
Store in airtight containers for up to three weeks – if they last that long!

# Luck of the Irish SCONES

by Nora Mounce

As you might imagine, the Irish appreciate tradition – especially when it comes to their scones! Using grass-fed Kerrygold butter from Ireland and a gentle touch with the dough, these classic scones come out of the oven ready to melt in your mouth. When ordering a teatime scone in Ireland, the barkeep will ask, “Butter or cream?” Opt for whipped cream and try lightly spreading some on a warm scone with raspberry preserves for a traditional Irish treat.

Makes 8 Scones

## Ingredients

- 2 cups all-purpose flour
- 2 teaspoons granulated sugar
- 1 teaspoon fine salt
- 1 Tablespoon baking powder
- \*3 Tablespoons unsalted butter  
(softened to room temperature)
- \*\*1 Tablespoon canna-butter  
(should be stored at room temperature)
- ½ cup whole milk
- ¼ cup cream

*\*Use Kerrygold brand if possible. Made in Ireland, its beautiful yellow color comes from healthy, grass-fed Irish cows.*

*\*\*Depending on the strength of your canna-butter, one tablespoon keeps the effects of these scones mellow and the cannabis taste barely detectable. For experienced edible consumers, ramp up canna-butter to 2-or-3 tablespoons, but mark carefully when sharing with friends!*

## Directions

1. For best results, preheat a pizza stone in the oven at 400°F. If not, use a baking sheet lined with parchment paper.
2. Sift together the flour, baking powder, sugar, and salt into a mixing bowl. Use your fingers to work the butter into the dry ingredients until chunks of butter are roughly incorporated.
3. Pour cream into milk. Starting slowly adding milk/cream mixture, pausing to mix with fingers. Keep adding liquid until you form a soft, slightly sticky ball. Use the minimum amount of liquid necessary, but if the dough is too dry to come together, try adding more milk or cream as needed by the tablespoon.
4. Place the dough on a lightly floured work surface. Using the heel of your hands, gently press and pat the dough to a 1 inch thick slab. Slice the dough into eight equal triangles with a heavy, floured knife. Remove pizza stone or baking sheet from the oven and arrange the scones on it.
5. Bake 15-18 minutes until scones turn a golden brown.
6. To keep it straight outta Ireland, serve with raspberry jam and freshly whipped cream.

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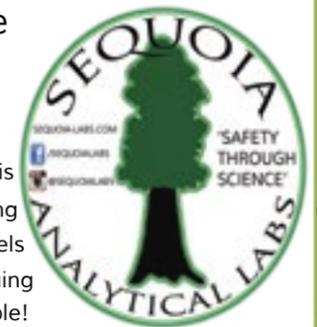
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**CBD MISO  
 GINGER  
 BROCCOLI  
 SWEET  
 POTATO BOWLS**

NORA MOUNCE

It makes sense that the most exciting new edible product on the market comes from the brain trust at Om Edibles, an all-female owned medical cannabis collective.

As we settle into 2017, the time is ripe to commit to healing habits and personal health – all change starts from within! Om Edibles owner, Maya Elisabeth, knows this truth well. Her life's work has been crafting healing cannabis-infused edibles and supporting female cannabis farmers in Northern California.

Established in 2008, Om Edibles was founded on the belief that cannabis is a superfood. The evolution of the company to exclusively source cannabis from female operated farms was a "beautiful and natural evolution," says Maya. Tapping into the understanding that women and cannabis have a very special connection, the Om Edibles team developed an organic CBD Cannabis Sesame Miso Broth for 2017. Maya's excitement for the miso paste cannot be contained, touting its stellar resume of being a non-GMO and organic product chock full of probiotics and a mild dose of concentrated CBD cannabis. She recommends using the paste to make a classic miso broth soup, incorporating your choice of mushrooms, green onions, seaweed, noodles, fresh grated ginger, cubed tofu or hot peppers. Essentially, the miso paste is a starter formula for your medicinal soup bar! Maya does caution consumers not to boil the miso as you risk killing the live probiotics. For a full proof recipe that harnesses the raw power of the CBD miso paste and puts a healthy dinner on the table, try the filling and nutritious broccoli and sweet potato bowl with Miso-Ginger Dressing tonight.

**INSTRUCTIONS:**

- Heat oven to 400 degrees.
- Peel sweet potatoes and cut into 1" cubes.
- Cut broccoli into bite-sized florets and stems.
- Coat large baking sheet with a drizzle of olive oil. Spread out cubed sweet potatoes on baking sheet. Sprinkle with sea salt and fresh pepper.
- Roast for 20 minutes, until browning underneath. Flip and stir chunks around with spatula or wooden spoon. Then add broccoli florets and stems, seasoning again with salt and pepper.



**MISO GINGER  
 BROCCOLI-SWEET  
 POTATO BOWL**

- 1 extra large or 2 medium sweet potatoes
- 1 large head broccoli
- 2 tablespoons olive oil
- Sea salt
- Fresh ground black pepper
- 1 teaspoon white sesame seeds
- 1 teaspoon black sesame seeds



**MISO-GINGER  
 DRESSING:**

- 1 tablespoon fresh ginger, minced
- 1 clove garlic, minced
- 2 tablespoons Om Edibles Organic CBD Sesame Miso
- 2 tablespoons tahini
- 1 tablespoon honey
- 1/4 cup rice vinegar
- 2 tablespoons toasted sesame oil
- 2 tablespoons olive oil

Roast for another 15 minutes or until broccoli is lightly charred at edges and sweet potato is golden brown. In a small skillet, toast black and white sesame seeds until fragrant. Set aside to cool.

- While vegetables are roasting, prepare dressing.
- Combine ginger through olive oil in a food processor (or blender) and run until smooth.
- Fill each bowl with equal amounts roasted sweet potatoes and broccoli.
- Coat lightly with sesame-miso dressing and finish with toasted black and white sesame seeds.
- Serve with extra dressing on the side (doubling the recipe is a great idea!).



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# SCOOBY DOOBIE CBD DOGGIE TREATS

When making CBD doggie treats, it's essential to work with ingredients that are both good for your buddy and which taste great (both to her and to you)! I created these CBD Doggie Treats to help ease the pain of arthritis with CBD cannaoil and used ingredients that my dog loves and which help her stay healthy. Sweet potatoes and pumpkin to keep her digestive system moving nicely, peanut butter, because let's face it, what pup doesn't love peanut butter and coconut oil to keep her coat looking shiny and luxurious!

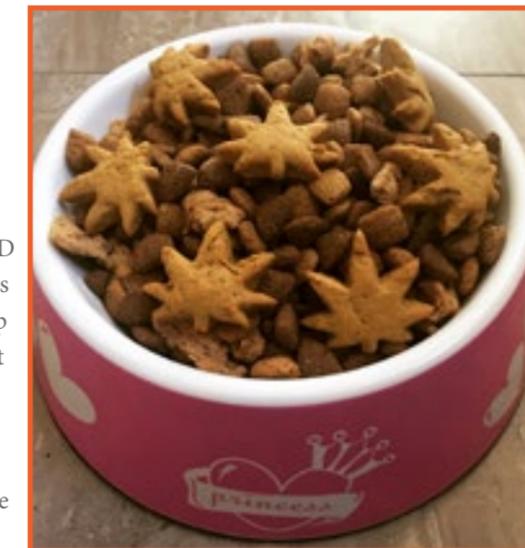
There is something really special about sharing cannabis with your best friend, especially when you know how much you're adding to their quality of life! Now imagine if you could eat them too...you can!!!

#### Ingredients:

- ½ cup sweet potato, *mashed*
- 1 cup pumpkin, *mashed*
- ½ cup peanut butter
- 2 eggs
- ¼ cup *Jeff's Light Tasting CBD* coconut cannaoil, liquified
- 2 cups whole wheat flour
- ½ cup quinoa flour
- 1 teaspoon baking soda

#### Steps:

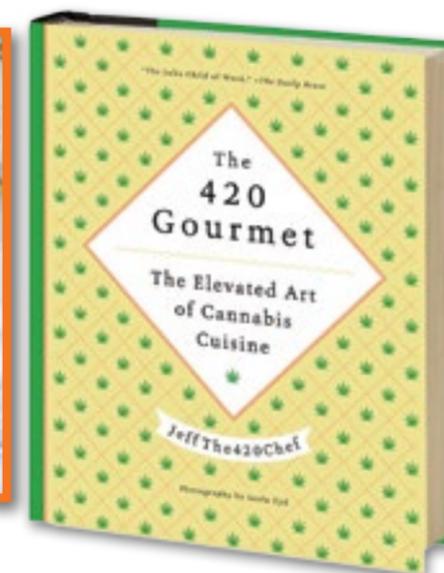
1. Preheat oven to 350 degrees.
2. In a large bowl, combine whole wheat flour, quinoa flour and baking soda.
3. In a separate bowl, blend sweet potato, pumpkin, peanut butter, eggs, and cannaoil until smooth.
4. Add flour mixture to sweet potato mixture and mix together.
5. Knead by hand or with a dough hook until the flour mixture is totally incorporated and you have a stiff dough.
6. If you use a mixer with a dough hook, pour dough out onto board and knead until smooth with a somewhat shaggy texture.
7. Refrigerate for 30 minutes
8. Roll out dough with a rolling pin to ½" thick.
9. Use a cookie cutter to cut out any shape you like and place on parchment paper.
10. Bake for 15 minutes and woof!



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# NEW ZEALAND'S

## MARTINBOROUGH

PAM LONG

### VINUM, ET AL

My husband and I just returned from a two-week trip to New Zealand's North Island. My roots are Kiwi – my dad was born in Wellington and I lived in Nelson (located on the South Island) for a handful of years. The biggest reason for the journey was to see family, have a break from winter and soak up an easy-going, subtropical climate. The entire trip took place on the North Island. It started in Wellington and continued northward. Along the way, we made a point of visiting local wineries and breweries.

You are no doubt familiar with New Zealand Sauvignon Blanc (NZ SB). The area that produces the lion's share of NZ SB is Marlborough, a world-class wine region located on the South Island whose number one crop is SB. It's hard to go wrong when picking out which one to buy. The commonly imported labels we see here in the U.S. on the grocery store shelves are Oyster Bay, Matua, Nobilo, Picton Bay, Babich, Starborough and Kim Crawford, to name a few. Most of these brands are value priced at around \$8 - \$14. The most recent vintage (or harvest) from New Zealand is March/April of 2016. Pay attention and only buy 2016. I cannot stress enough the importance of "fresh vintage" when it comes to tank-fermented and finished white wines.

I love my Marlborough, but my favorite wine region in New Zealand is Martinborough. Yes, easy to confuse by the look of the letters. The town of Martinborough, in the Wairarapa (why-RAP-ah) region, is located about an hour's drive north of Wellington. Martinborough is a small, laid back wine country village not unlike Sonoma County's Geyserville bursting with fresh and lively culinary fare, restored sun-baked storefronts and friendly faces. Like California in the summer, the Wairarapa looks a lot like Sonoma and Napa - golden hills dotted with clumps of trees hugged by lovingly stewarded vineyards. And the wines are stunning. Sauvignon Blanc and Pinot Noir are their most celebrated quaffs.

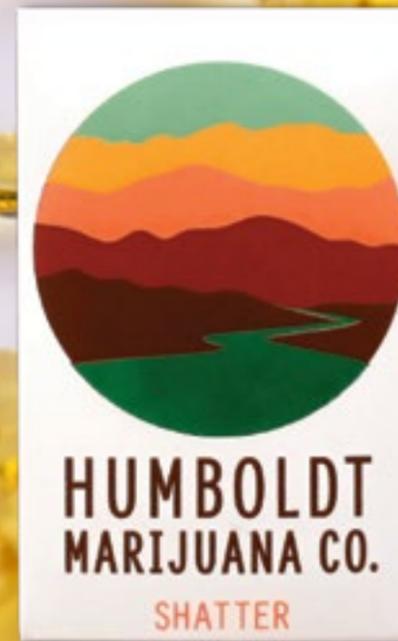
Wairarapa vineyards tend to be planted on high alluvial terraces in deep stony and free-draining soils. Climatically, the area is similar to Marlborough, with low rainfall, high sunshine hours and cool nights. Although Martinborough produces only 1.4 percent of New Zealand's wines, they are worth seeking out. For a quick consumer tutorial check out K & L Wines online – [KLwines.com](http://KLwines.com). In the search field type in Martinborough to read expert reviews and glean a more detailed perspective of this boutique region. Use caution; you will be tempted to fill your cart. 🍷

**Pam Long is a wine educator, consultant and writer. Consider a career in the Wine and Beverage industry and earn your Wine Studies Certificate through HSU's eLearning & Extended Education. Pam is also presenting a Wines of New Zealand seminar on April 1st through HSU's OLLI program. Email Pam: [thewinedummy@gmail.com](mailto:thewinedummy@gmail.com).**

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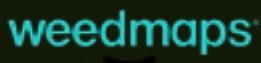
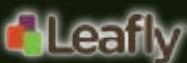
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