



March 3, 2020

Good morning

I want to thank the Chair and committee members for the opportunity to speak with you today about Hemp, our company's efforts in the space and our vision of the tremendous opportunities for the commonwealth and its citizens.

First, a brief background on myself. I was born into a farming family in Lancaster County. Deciding to go another direction from dairy farming, I forged a path into medicine, graduating from Albright college, University of Virginia and Orthopedic Surgery training at Penn State Hershey. I built a clinical spine and reconstructive practice in York, starting in 1996. Along with clinical practice, I took an active role in leadership and development, ultimately resulting in the formation of OSS Health, now one of the premiere musculoskeletal practices in the mid-Atlantic. Within a year of opening OSS Hospital in 2011, I was struck by a motorist on my bicycle going 45 mph. I sustained several injuries, the most serious, an unstable neck fracture with bleeding around the spinal cord. I was fortunate to recover but was unable to continue a surgical practice.

In finding an act two in life, I joined with my family and developed an agri-tourism and beverage company on our property, Wyndridge Farm. Since its 2014 opening, it has become an east coast destination. With my medical credentials intact, 2017 found me looking for next steps and I began to study cannabinoids, CBD and Hemp, and after seeing an opportunity with the 2018 Farm bill, we decided to enter the space.

Our family started Groff North America, an integrated agri-tech company based on hemp. We have utilized a thesis of using the entire hemp plant for seed nutritional value, medical use from cannabinoids and industrial uses of fiber from the stalk. We have built out a platform that has quickly pushed us into a leadership position in the space. Our team consists of experts from medicine, medical device manufacturing, industrial organic chemistry and cannabinoids. We have invested heavily in creating a hemp research park concept in York County, PA and created nearly thirty jobs. We have acquired advanced technologies that will help us lead the industry.

Farmacy Partners is our retail and clinical arm with a flagship location in York and six new locations set to open in 2020. I have developed a clinical practice based on research, education and treatment of patients with multiple conditions, using hemp-based cannabinoids, recently de-classified by the federal government. Farmacy medical advisors is a physician group of six clinicians from PA, sharing eight board certifications among them. This group plans to receive Federal Clinical research approval for several studies.

Over the last fifteen months, we have counseled, treated and followed hundreds of patients, gaining invaluable direct insight into patient results. This community resource has been very well-received, and we will be expanding into Hanover and Lancaster by May 2020.

Our commitment to whole plant utilization led us to work with PA Farmers to grow 2000 acres of hemp



in 2019. This was the largest growth of fiber cultivar in eighty years in PA. Our state was home to the largest US growth in the 1940's, now known as Hempfield, Lancaster county. We feel that PA is poised to help guide the entire industry forward, given progressive policies by the Department of Agriculture and Secretary Redding, allowing unlimited acreage to permittees and prompt development of a USDA-approved plan for hemp.

Our Hemplex cannabinoid laboratory will open in April and feature leadership by renowned scientist, Dr. Dan Batzel, a Scranton native, and organic chemist. Under his direction, our facility will feature the most advanced and environmentally friendly extraction, isolation and formulation capabilities in the industry. Located in Red Lion, we have a ninety acre parcel with current 100,000 sq. ft facility and corporate office.

It is important to note, our company is NOT invested or involved in marijuana, medical or otherwise. We feel, however, that it is important to make some clarifications which are pivotal to making sound decisions in regulatory and legislative matters.

Recognizing that marijuana or high THC cannabis is still illegal at the federal level and a stigma still exists, we think it is important to point out the similarities and differences from Hemp and low-THC cannabis. Both are cannabis plants, each containing the same nearly 100 different plant molecules, known as cannabinoids. THC, the psychoactive component and CBD are both prevalent and the most discussed. Plant with THC levels below .3 percent are considered hemp and above that level, marijuana. Medical marijuana is potent cannabis grown under stringent conditions, typically indoors. Hemp may be grown indoor or outdoors.

I make this point, because as a clinician and scientist, I know that the potential ground-breaking medical advances that will come from the uses of the cannabinoid plant molecules can be derived from either class of plant. Hemp is not just rope, and fiber. Hemp is not just CBD, as the research from Penn State Hershey release last year showed.

I have been a licensed physician in PA since 1991, treating thousands of patients with surgical and non-surgical care. I witnessed, firsthand, the national release of OxyContin, a powerful and addictive long-acting narcotic by Purdue Pharma, now disgraced and bankrupt. This, with the simultaneous decision by the federal Medicare program that patients were not having their pain treated aggressively enough and programs were quickly put into place that punished doctors if not enough pain medication was prescribed. Yes, this as the foundation of our country's disastrous opioid crisis.

Cannabis has been used by civilizations for many centuries. By this, I mean high and low THC cannabis, a more accurate term for marijuana or hemp. Societies used the hearty plant for food, fiber and medicine. It was well-received and widely used. In the late 1930's the US government lumped both types of cannabis together in a federal prohibition which still exists today for high THC cannabis. 33 states, however, have established medical cannabis programs, following California's lead in 1996, defying federal statute. The Federal government has overlooked these programs, now with 11 states actually approving adult recreational use.

US research on cannabinoid medicine seriously lags behind countries like Israel, where groundbreaking



discoveries have been made on the Endocannabinoid system and CBD by scientists like Dr. Raphael Mechoulam and others. I believe that our country will rapidly catch up and surpass the rest of the world in medical cannabis research. Most States, like PA, commit a portion of the tax revenue from medical marijuana to clinical research programs.

The PA medical marijuana program, just a few years old is robust and growing with 200,000 active patients registered. This well-run program has allowed these patients to decide to utilize the plant after their condition is certified by a qualifying physician. I have added that service to my practice over a year ago. I have found it to be extremely gratifying and educational, as few clinicians truly see these results at the front line, as we do. Farmacy advisors plans to obtain a Federal clinical research permit to further study and obtain much-needed data on low and high THC cannabis treatment. We are also exploring academic affiliation within PA, though we are a private entity.

I have the unique vantage point of years of experience as a physician, now involved in hemp and its resurgence, made possible by the Farm Bill. I have been actively involved at the Department of Agriculture's Hemp steering committee, working with the team in advancing the cause for hemp. I also have a unique respect for our farming heritage in Pennsylvania and the difficulties that American agriculture has encountered. With farm incomes continuing to decrease, many see industrial hemp as a potential new industry from an old crop. There is tremendous enthusiasm in this country and others about the many positive attributes of this plant and its possibilities. 2019, however, saw some expected market whipsaw effects, as some stakeholders took very aggressive positions that were hit with market volatility. We remain a very stable company with diverse capabilities and are bullish about the future of hemp in PA and beyond.

Regarding my initial observations on the industry, the first year was rocky, as expected as we still have little understanding of seed, fiber and their markets. Few people understand that Hemp is Low-THC Cannabis. I feel that CBD is being over-utilized but, still an amazing and long-term opportunity for farmers, businesses and citizens of the Commonwealth

Today I would like to give my suggestions on the future of our industry. First, I recommend NOT defining Hemp as only seed, fiber or straw, as this will destroy any hopes of significant economic impact to Pennsylvania Agriculture. I also suggest allowing Cannabinoids from Hemp to be integrated into the Department of Health Medical Cannabis program. The concept would be to sell raw ingredients and/or formulated product into the system. As I stated earlier, research into Cannabinoids is producing tremendous hope for many health issues and we need to expand in this area.

I ask that you allow access to high quality CBD to the general public for health/wellness and consider PA-specific regulations for Hemp Cannabinoid use in food and beverage at specific limits.

Please consider me, Dr. Steve Groff, and Groff North America as a resource for your committee, the Departments of Health and Agriculture in Farming, Research and Medicine to make PA a shining example of common-sense, progressive leadership and legislation to lead the country. I am happy to answer any questions you have. Thank you for the chance to share my story on this great emerging industry in Pennsylvania.



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www.groffna.com 717.296.2311



Hemp is good for people and the planet.

GROFF
NORTH AMERICA



OUR ROOTS

Our founder, Steve Groff was born in Lancaster County, Pennsylvania into a 4th generation dairy farming family. His Grandfather, Earl Groff was the founder of Atlantic Breeders. His strong values of hard work, family and community inherently became ingrained into his outlook on the world. Steve left the farm for college and pursued a path in medicine, earning his medical degree from the University of Virginia and began his career in Orthopedic Spine Surgery.



100 ACRE FAMILY FARM

Steve in 1968 with his father Ken.



LOVE FOR AGRICULTURE

A teenager working in the barn.



ORTHOPEDIC SURGEON

Completing residency at Penn State Hershey Medical Center





BUILDING THE FOUNDATION

In 2002 OSS health was founded by Dr. Groff and a few of his associates. They saw a need for independent and specialized care within the local medical community. Steve's vision, active role as a top orthopedic surgeon, and leading teams grew the organization. In 2011 Steve was forced to stop operating due to a bicycle accident.

- **Dr. Steve Groff - Founding Chairman**
- **Over 10 locations in South Central PA**





FROM MEDICINE TO HOSPITALITY

During Steve's rehabilitation, he and his wife Julie, began to contemplate life after medicine and how they could use their old barn on their seventy-seven acre farm, known for years as Wyndridge Farm. The concept of craft beverage production, event space and a restaurant on a farm in Dallastown, PA was born.

**High Volume Beverage Manufacturing | Cidery | Brewery
Event Venue | Lodging | Award Winning Restaurant**





BACK TO THE FARM

We are a vertically integrated hemp agribusiness.

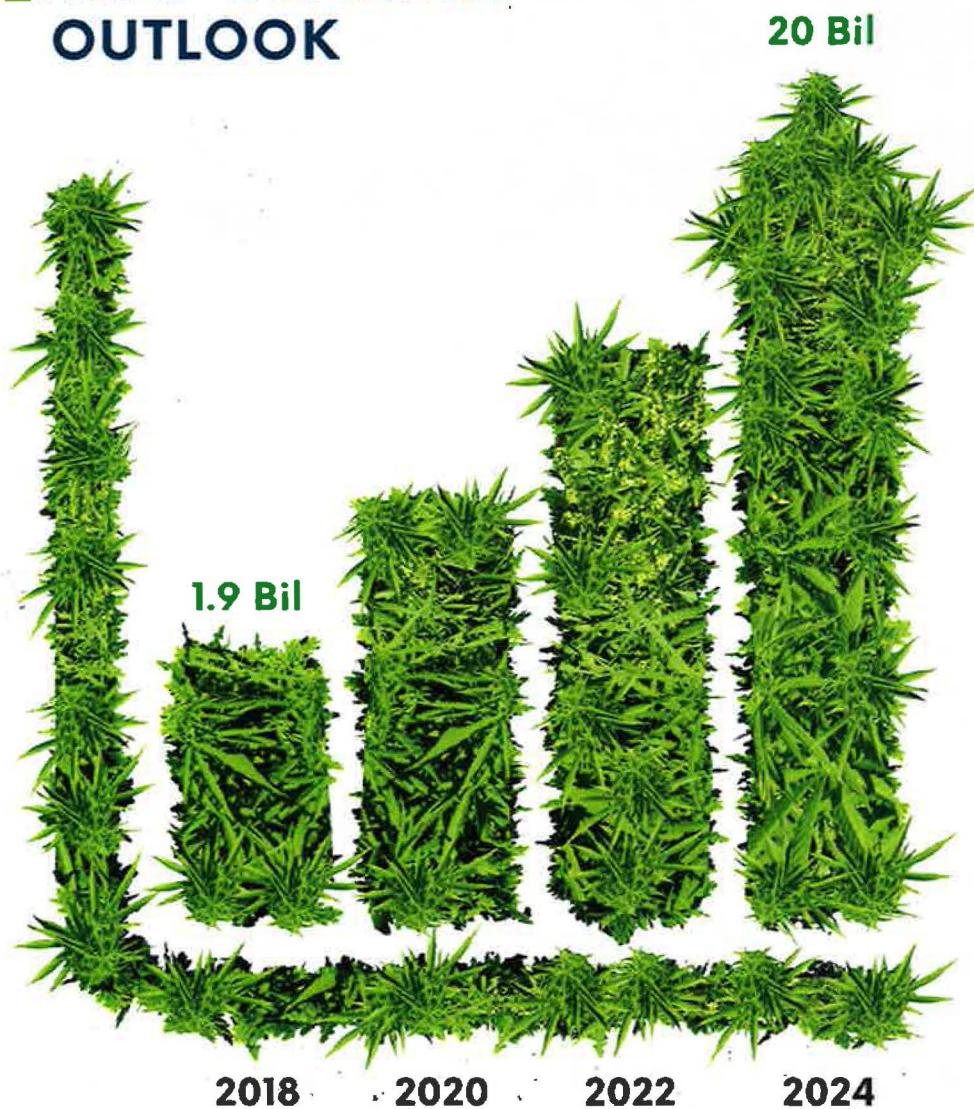
In 2018 we dove head first into learning, networking, building a team & establishing a foothold in the emerging hemp industry.

Today, we apply cutting edge technology, science-driven initiatives and physician-backed research to create high-value end products with little to no waste.

We are pioneering the hemp revolution through calculated infrastructure and our unwavering mission of whole-plant utilization.

PIONEERING
THE HEMP
REVOLUTION

HEMP INDUSTRY OUTLOOK



The US sales of cannabis and hemp derived CBD products are expected to surge from \$1.9 billion in 2018 to \$20 billion by 2024, a compound annual growth rate of 49%.

CBD product sales in dispensaries since 2014 have grown at a faster rate than overall sales in dispensaries.

66% of hemp-derived CBD consumers in the US agree with full federal legalization of cannabis.

<https://bdsanalytics.com/u-s-cbd-market-anticipated-to-reach-20-billion-in-sales-by-2024/>

GROFF NA SECURE SUPPLY CHAIN

BRAND STRATEGY

In-house Design &
Marketing Team



FORMULATE

Custom blends by
PhD Chemists



PURIFICATION

Molecular Distillation
/ Isolation



RETAIL

Deliver to your
customers



SEED

Pennsylvania registered
seed dealers



FARM

Trusted network
of pioneers



HARVEST

Guide & supervise
harvest operations



EXTRACTION

Onsite grain
alcohol



GROFF NORTH AMERICA LLC



GROFF NA HEMPLEX, LLC



FARMACY PARTNERS, LLC



WYNDRIDGE FARM, LLC

CORPORATE STRUCTURE

EXECUTIVE TEAM



STEVE GROFF, M.D. - Founder & Chairman



TAYLOR GROFF - C.E.O.



**PAUL BLYMIRE
C.O.O.**



**RYAN DOHM
C.D.O.**



**JEN DAVIS
C.F.O.**



**DAN BATZEL, Ph.D. - V.P.
STRATEGIC DEV.**



We are a physician-owned brand...

Our teams strive to be the premier source of hemp cannabis education, research and products through a physician-led, evidence-based approach.

At Farmacy Partners, we also believe hemp is good for people and the planet. Our company was founded on a thesis of whole-plant utilization and driving compliance and value through our entire supply chain; from the Farmer to the Consumer. We are home-grown pioneers with deep farming roots in South-Central Pennsylvania, and we're not afraid to get our hands dirty.

We will contribute to the global change in hemp-cannabis knowledge and acceptance.

Live well + Be well.



FP BRICK & MORTAR EXPERIENCE

When visiting Farmacy Partners, our goal is to deliver an experience and emotional connection with our customers and patients. We interface research, scientific inquiry and personal care with a fun, warm and inviting environment that sheds light on the growing body of cannabis science. Our people hold themselves to a high standard of expertise, integrity and transparency, which shows through in our products, technology and guest experience.

- 6 new sites opening in 2020



FP CIRCULAR DATA ECOSYSTEM

ONLINE SALES DATA METRICS

Understanding online sales data from our website, and how industry regulated advertising techniques affect growth. This allows us to test campaigns that may reach a different demographic and geographical reach than our retail locations cannot.



CONSUMER & PATIENT FEEDBACK

We gather data from customers that enter our stores and use our products. This allows us to make real time decisions and understand demand and market acceptance of SKUs on metrics such as age, gender, and medical condition.

RETAIL BRICK & MORTAR

Having our own retail stores gives us a unique advantage to gather real-time data you would otherwise have to acquire from outside resources.

PRODUCT DEVELOPMENT DATA

We use our sales data from our retail stores to make informed decisions on new product offerings, measure profitability, & understand market trends.

TOPICAL PRODUCTS



FARMACY PARTNERS SALVE

1.6oz. - 300mg | 0.6oz. - 112.5mg

Ultra-potent and ultra-nourishing.

CBD-rich hemp extract calms and soothes discomfort in a localized area through the skin.

Pink Grapefruit Peel & Spearmint Essential Oils deliver beneficial terpenes limonene and pinene, providing powerful plant-based relief.

Hemp Seed Oil uses the power of plants to provide a rich source of gamma linoleic acid to soothe and hydrate the skin, allowing optimal absorption and deep results.

Shea Butter contains oleic, stearic, palmitic, and linoleic fatty acids to protect, nourish, and replenish deep within the skin..



FARMACY PARTNERS BODY SOOTHE

8oz. - 600mg | 2oz. - 150mg

Fast-absorbing and lightweight relief.

CBD-rich hemp extract calms and soothes discomfort in a localized area through the skin.

Aloe Leaf Juice contains over 70 beneficial nutrients including plant sterols, vitamins and minerals.

Pink Grapefruit Peel & Spearmint Essential Oils deliver beneficial terpenes limonene and pinene, providing powerful plant-based relief.

Hemp Seed Oil uses the power of plants to provide a rich source of gamma linoleic acid to soothe and hydrate the skin, allowing optimal absorption and deep results.



+FARMACY
partners

A GROFF NORTH AMERICA BRAND



TOPICAL PRODUCT PURPOSE

Hemp Extract containing cannabinoids such as CBD can be introduced to your body in a variety of ways including oral application, vaping and topical application. Our topical salves and lotions provide an easy and convenient pathway to make the introduction without the fear of ingesting something orally.

Our products are available in several formulations, sizes and variable potency to give you some options when navigating your cannabinoid therapy routine.



THE SCIENCE

HEMP EXTRACT



Regarded as having potent antioxidant and anti-inflammatory benefits

Provides support to our internal Endocannabinoid System

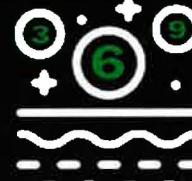
Through topical application on the skin

Has a comedogenic rating of 0

Contains high concentrations of omega 3, 6, and 9 fatty acids

Is a humectant and retains moisture within the skin

HEMP SEED OIL



FARMACY OILS



ISOLATE - 1oz. - 300mg | 600mg

Our Isolate oil contains only the pure CBD molecule, delivering a potent source of cannabidiol to be used alone or as a compliment to other CBD supplements. Available in 300mg and 600mg strengths and diluted in a base of fractionated coconut oil for optimum absorption and palatability.



FULL SPECTRUM - 1oz. - 300mg | 600mg | 1200mg

Our Full Spectrum oil contains all the beneficial components of the hemp plant, including other cannabinoids, terpenes, flavonoids, plant sterols, and proteins. Full Spectrum extract also contains trace amounts of THC found in hemp plants. It's diluted in a base of fractionated coconut oil for optimum absorption and palatability.



BROAD SPECTRUM - 1oz. - 300mg | 600mg | 1200mg

Our Broad Spectrum oil breaks down the individual components of the extract, isolate and then remove the THC molecule within to untraceable levels while preserving the integrity of the product. It's diluted in a base of fractionated coconut oil for optimum absorption and palatability.



PET SPECTRUM - 1oz. - 600mg

This animal-friendly supplement contains all the beneficial components of the hemp plant, including other cannabinoids, terpenes, flavonoids, plant sterols, and proteins. Serving size: ½ dropper per 20lbs, once a day.



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CBD SKIN CARE - MARKET GROWTH

Projected Global CBD Skin Care Market for 2025: 1.7 Billion

(<https://www.prnewswire.com/news-releases/cbd-skin-care-market-size-worth-1-7-billion-by-2025--cagr-32-9-grand-view-research-inc-300908941.html>)

**Global CBD Skin
Care Market
for 2018: 234 Million
with CBD-infused skin
oils making up 48%**

(https://www.grandviewresearch.com/industry-analysis/cbd-skin-care-market?utm_source=prnewswire.com&utm_medium=referral&utm_campaign=PRN_Aug29_cbdskincare_CMFE_RD1&utm_content=Content)



INTRODUCING



INBLUMME

Pennsylvania Dutch word meaning “flower”

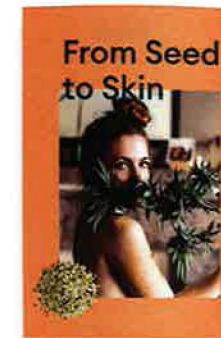
Uses powerful physician-backed formulas to address multiple skin concerns with a minimalist and inclusive approach to skin care. Using hemp extract containing cannabinoids delivers antioxidant benefits.

This presents major promise in addressing skin concerns like breakouts, ultra-sensitive skin, and premature signs of aging through cannabinoid-infused skin care products.

When CBD is combined with hemp seed oil, which is sourced from pressed seeds of the plant, the result is a highly nutritive formula that provides whole skin health.

INBLUMME

Oh hemp yeah.
You glow,
Girl.





THE PRODUCTS

ANTI-AGING SERUM - 1oz. - 100mg

Hemp-derived CBD strengthens and reduces signs of aging

Safflower Seed Oil boosts collagen production in the skin

Sea Buckthorn Oil fights free radicals and promotes cell regeneration

Hemp Seed Oil replenishes and nourishes with omega fatty acids

Clover Bud Oil gently exfoliates and rejuvenates

Roman Chamomile repairs and strengthens aging skin

SENSITIVE SKIN SERUM - 1oz. - 100mg

Hemp-derived CBD regulates oil production and inflammatory response in the skin

Rice Bran Oil provides lightweight moisture and reduces the appearance of scarring and pigmentation

Buriti Fruit Oil calms redness and irritation

Hemp Seed Oil replenishes and nourishes with omega fatty acids

Bisabolol promotes skin healing process

Tea Tree Oil clears bacteria with antiseptic properties

Ylang Ylang Oil conditions and strengthens skin's barrier

FACE MOISTURIZER - 2oz. - 100mg

Hemp-derived CBD promotes healthy balanced skin

Sunflower Seed Oil hydrates and improves skin elasticity

Hemp Seed Oil replenishes and nourishes with omega fatty acids

Grape Seed Oil fights free radicals and restores damaged skin

Lavandin Oil lightens and brightens overall complexion



INBLUMME

HEMP BASED SKIN SOLUTIONS
INGREDIENTS LIST

A GROFF NORTH AMERICA BRAND



HEMPLEX OVERVIEW

Groff NA Hemplex is our hemp-cannabis division focused on processing industrial hemp. It serves as comprehensive biorefinery, extraction, purification and formulation facility. Our diverse team of experts lead the way in research and production of raw materials from all aspects of the Hemp plant.

Hemplex specializes in science-based custom cannabinoid formulations to meet consumer and market needs. Through a combination of technology and human capital, we continue to develop innovative and proven products for our customers.

- 100,000 sq. ft.
- Fiber Processing & Refinement
- Product Development



QUALITY CONTROL

We are committed to providing our customers with safe, reliable and consistent products.

Through our robust quality assurance program, manufactured products are checked multiple times to ensure specifications are met prior to shipment. Quality does not stop at the time of shipment. We are dedicated to serving our customers through the life cycle of our products.



LIQUID CHROMATOGRAPHY / MASS SPECTROMETRY

Determines percentages of cannabinoids in final products and raw materials.

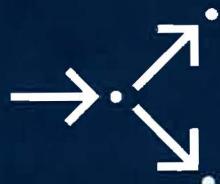
- CHEMICAL PURITY
- RESIDUAL SOLVENT



MYCOTOXIN ANALYSIS

Allows us to screen for molds and their byproducts in the incoming biomass, incoming, production and storage.

- TOXINS PRODUCED BY FUNGI



qPCR FOR PATHOGENS

Tells us if there's living organisms or bugs on the cannabis which is highly susceptible to the growth of molds.



ISO 9001: 2015

Q2 2020 Certification

CANNABINOID PRODUCTION

Our cannabinoid production processes can be customized to meet specific product and customer needs.

Through various biorenewable alcohols, system parameters, purification methods and added ingredients, our team of chemists can develop and blend science-based formulas.



GRAIN ALCOHOL EXTRACTION

Ultra cold extraction to target beneficial compounds.

- HEMP EXTRACT



DOWNSTREAM PURIFICATION

- MOLECULAR DISTILLATION
- FILTRATION



FORMULATION

Custom blended formulas to meet customer specifications.



ISOLATION

Separation and synthesis of individual pharma-grade cannabinoids.

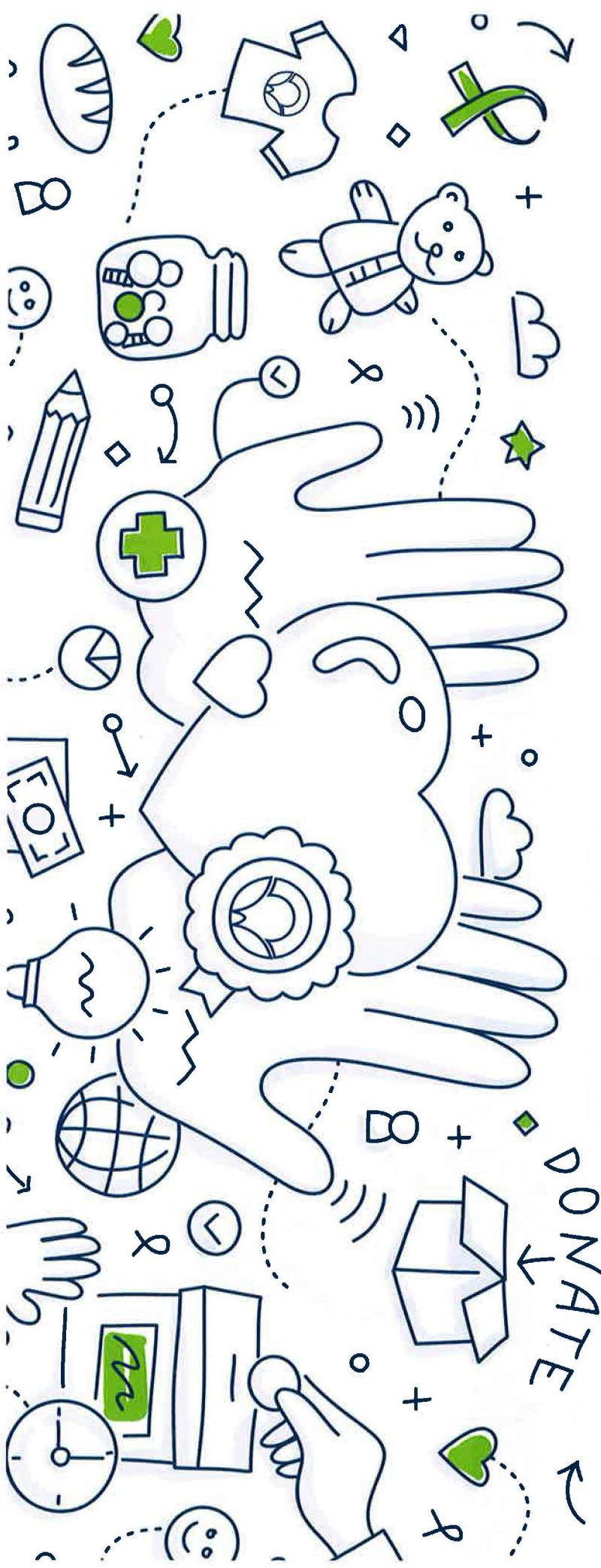
WE GIVE BACK

GROFF

W H O L E P U R P O S E



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PennState

Cannabinoid compounds may inhibit growth of colon cancer cells

982

105



While the compounds most commonly associated with cannabis -- THC and CBD -- showed little to no effect, 10 other compounds were effective at inhibiting cancer cell growth.

Image: © iStock Photo / Shinyu

Katie Bohn
February 06, 2019

HERSHEY, Pa. — Medical marijuana has gained attention in recent years for its potential to relieve pain and short-term anxiety and depression. Now, Penn State College of Medicine researchers say some cannabinoid compounds may actually inhibit the growth of colon cancer cells in the lab.

The researchers tested the effects of synthetic cannabinoid compounds on colon cancer cells in an experiment in test tubes. While the compounds most commonly

associated with cannabis – THC and CBD – showed little to no effect, 10 other compounds were effective at inhibiting cancer cell growth.

Kent Vrana, chair of the Department of Pharmacology at Penn State College of Medicine, said the study – recently published in Cannabis and Cannabinoid Research – helped identify compounds that could be tested further to understand their anti-cancer properties.

"Now that we've identified the compounds that we think have this activity, we can take these compounds and start trying to alter them to make them more potent against cancer cells," Vrana said. "And then eventually, we can explore the potential for using these compounds to develop drugs for treating cancer."

Colorectal cancer is one of the most common cancers diagnosed in the United States, according to the National Cancer Institute, with an estimated 140,250 newly diagnosed cases and 50,630 deaths in 2018. While medical cannabis has largely been used in recent years for palliative care, the researchers said some previous studies suggested that certain cannabinoid compounds may have the potential to inhibit or prevent the growth of tumors.

To explore how effective cannabinoids were at reducing the viability of colon cancer cells specifically, the researchers tested how 370 different synthetic cannabinoid compounds affected seven types of human colon cancer cells.

"There are many different ways cells can become cancerous," Vrana said. "Each of the seven cells we tested had a different cause or mutation that led to the cancer, even though they were all colon cells. We didn't want to test these compounds on just one mutation or pathway to cancer."

The researchers incubated the cancer cells in a lab for eight hours before treating them with the cannabinoid compounds for 48 hours. Any compounds that showed signs of reducing the viability of one kind of cancer cell was then used to treat all seven kinds of cells.

After further screening and analysis, the researchers identified 10 compounds that inhibited the growth of almost all seven types of colon cancer types tested. But while the researchers were able to identify these compounds, Vrana said they are still unsure about how exactly the compounds worked to reduce the viability of the cancer cells.

"The 10 compounds we found to be effective fall into three classes, so they're similar to each other but with small changes," Vrana said. "We know how one of them works, which is by inhibiting the division of cells in general. We also found that the most potent and effective compounds don't seem to work through traditional marijuana receptors, although we're not sure of the exact mechanism yet."

Vrana said certain types of cells, like skin and colon cells, are more susceptible to cancers because they divide frequently.

"Every time a cell divides, there's the chance that it will mutate and keep dividing when it shouldn't, which is how cancers can start. So if we block that signal that's telling cancer cells to continue to divide, that could be a way to stop that cancer."

Vrana said that because the other compounds did not seem to be working through traditional cannabinoid signaling pathways, future research will focus on better understanding how the compounds interact with cancer cells and whether researchers can make the compounds more potent and effective.

Wesley M. Raup-Konsavage, research project manager; Megan Johnson, medical student at Philadelphia College of Osteopathic Medicine; Christopher A. Legare, medical student at Penn State College of Medicine; Gregory S. Yochum, associate professor of biochemistry molecular biology; and Daniel J. Morgan, assistant professor of anesthesiology and perioperative medicine, also participated in this work.

The National Institutes of Health and the Elliot S. Vesell Endowment helped support this research.

About this research

The Penn State College of Medicine has an opportunity to play an integral role in advancing society's understanding of the medical potential of marijuana and assisting in the development of safe and effective therapeutics. Partnering with licensed private entities and collaborating with peer universities to tackle this priority of the Commonwealth supports the college's land-grant mission of research, teaching and service.

The College of Medicine often investigates emerging therapies to advance the understanding of medical conditions, to formulate beneficial treatments, and to address unmet societal health needs. The college's research programs, including human clinical

trials, are guided by ethical principles; conducted with honesty, integrity and accountability; and are in compliance with all applicable federal, state, and local laws and regulations.

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A'ndrea Elyse Messer, aem1@psu.edu

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