



# Cannabis in Pennsylvania

January 28, 2014



# Who Am I

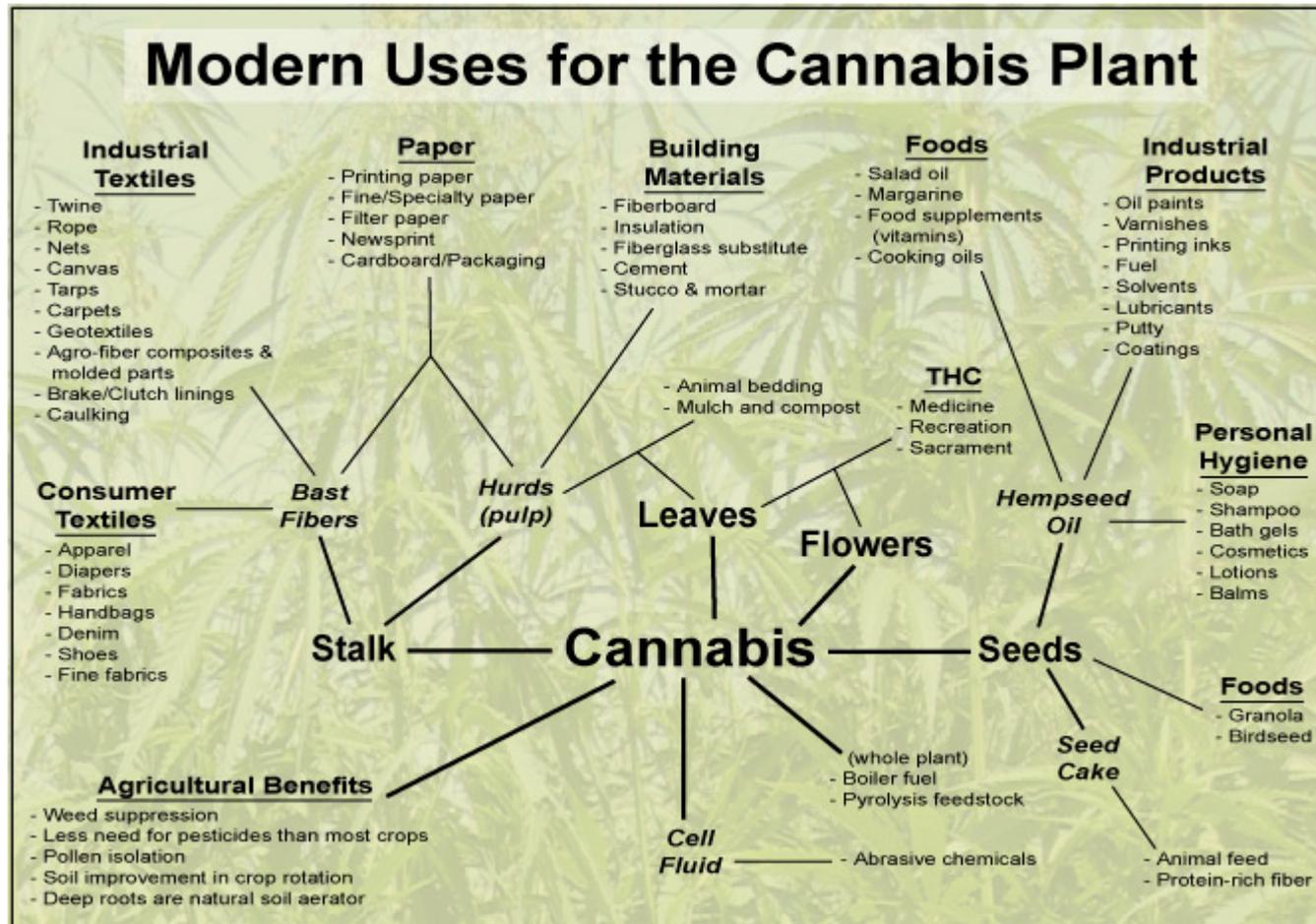
- Josh Stanley from Colorado
- Cannabis Legalization Movement Pioneer
- Co-Authored 1<sup>st</sup> Medical Cannabis Bill in CO
- Dispensary Owner, Cultivator, Breeder
- Created “non-psychoactive” cannabis plant with high level CBD
- Medical success with plant and children suffering from seizure disorder featured on Sanjay Gupta’s “WEED” Special
- Founded non profit foundation Strains of Hope

# Cannabis

- One of the earliest domesticated plants; cultivated over 12,000 yrs ago
- One of the most powerful healing plants on the planet
  - Thousands of years of human experience
- Three Genetic Strains
  - Indica, Ruderalis, Sativa
- Plants with Low Tetrahydrocannabinol (THC) levels are considered Hemp
  - Less than 0.3%



# Incredible Number of Uses For Plant



# Cannabis as Medicine



# What are Cannabinoids?

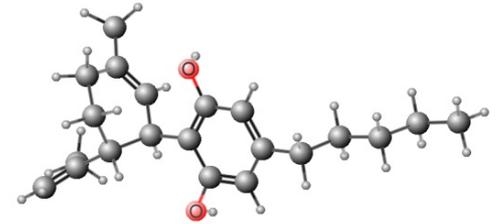
- Cannabinoids are a group of terpenophenolic compounds present in both Hemp and Cannabis
- Occur naturally in the nervous and immune systems of animals/humans
  - (THC) or delta-9-tetrahydrocannabinol is the primary psychoactive ingredient
  - Cannabinol (CBN), Cannabidiol (CBD), Cannabichromene (CBC), Cannabigerol (CBG), Tetrahydrocannabivarin (THCV) are additional cannabinoids with biologic activity
- Activate cannabinoid receptors in body

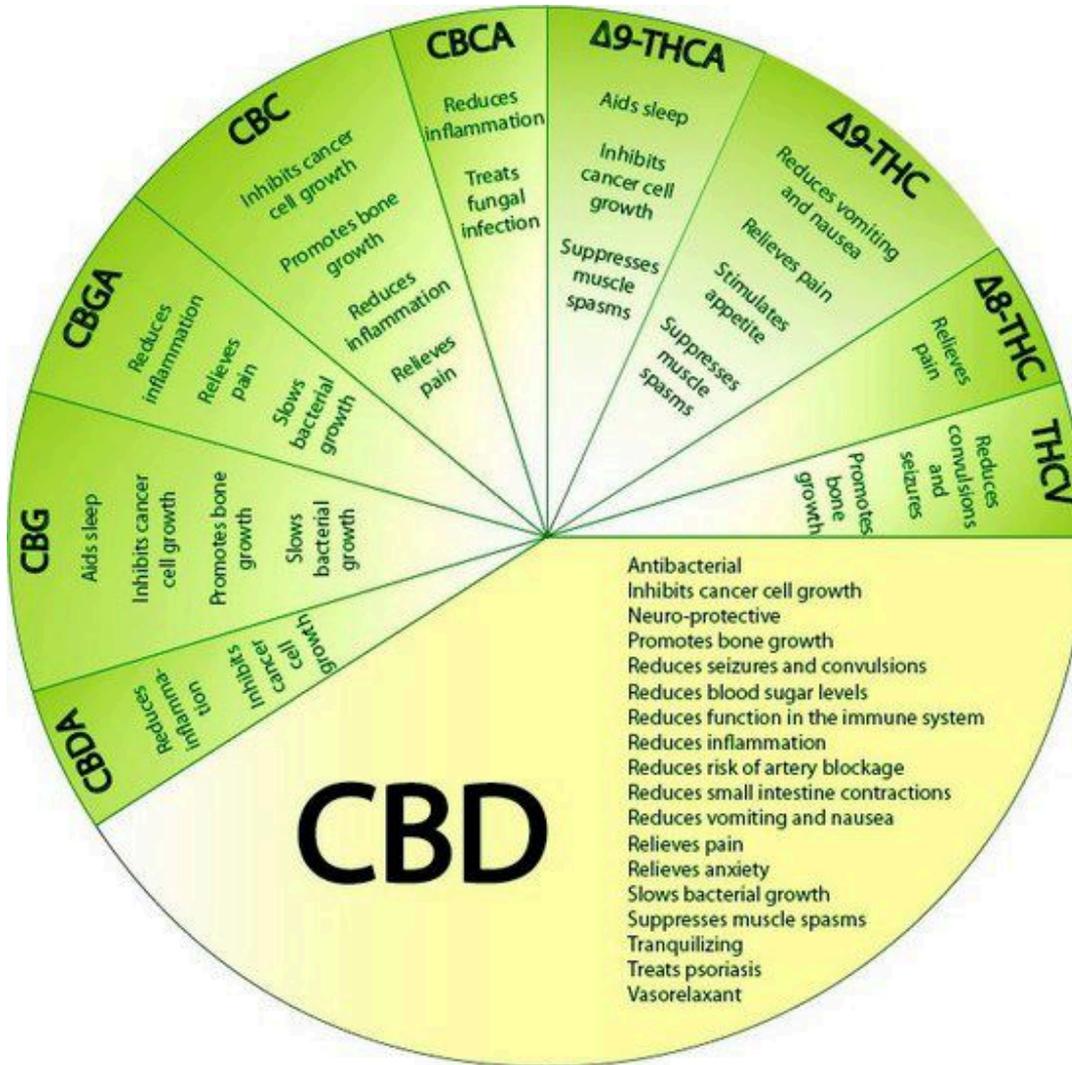
# Cannabidiol (CBD)



# Cannabidiol (CBD)

- CBD possesses wide range of therapeutic benefits
  - has significant analgesic and anti-inflammatory activity without the psychoactive effect (high) of THC
- CBD is known anti seizure agent
- Issue: CBD has been bred out of many cannabis strains for higher THC content





Evidence is overwhelming that cannabinoids in marijuana can **REDUCE** seizures, pain, nausea, inflammation, anxiety, bacterial growth, blood sugar levels and **AID** in sleep, bone growth

# Pediatric Seizure Treatment

- Children having 300+ seizures a week
- Many lose ability to walk, talk and eat
- Pharmaceuticals not working
- Parents search for availability of high CBD extracts
- Last resort, children on verge of death

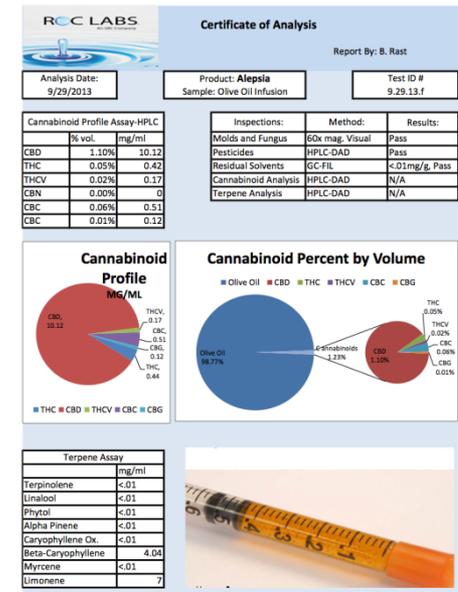
# CBD treatments are available

- In 2012, my family created a CBD strain by breeding **up** CBD, and **down** THC
- Originally named strain the “Hippies Disappointment”
- Started working with my brothers on production
- Ratios of finished product typically 30:1
- No one wanted it; couldn't sell
- Sitting in greenhouses



# Finished CBD product

- Ethanol extraction
- Suspended in Olive/Coconut Oil
- 10mg/mL CBD (1% solution) & 0.5mg/mL THC (<0.3% solution)
- Follow standard operating procedures
- Nutraceutical Standards



# Parents Flock to Approved States

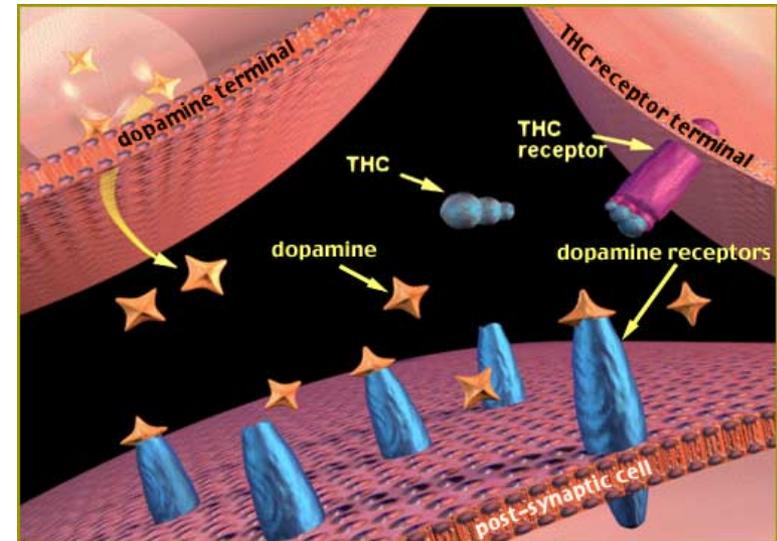
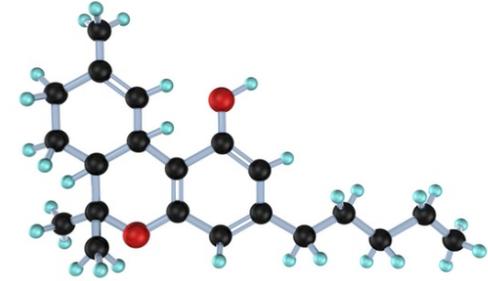
- Can't send extract across State lines
- 100's of families moving to approved States
- Having success with many children
- Success rates exceed that of pharmaceuticals
- Parents lobbying in various States

# Delta- 9- tetrahydrocannabinol (THC)



# delta-9-tetrahydrocannabinol (THC)

- THC is the cannabinoid that gives the intoxicating and psychoactive effect that makes a person feel “high”
- THC stimulates dopamine in brain



# Tapping Potential of THC

- Suppresses cancer cells and Inhibits tumor Growth in animal models
- Analgesics
- Sleep Disorders
- Appetite Stimulation
- PTSD and Depression
- Multiple Sclerosis
- Glaucoma

# Safety of Cannabis

- 100% natural
- Statistically the safest of any drug in world
- Proven health benefits with CBD, THC
  - Just starting to understand real potential of plant
- Can't overdose on marijuana
  - Tested numerous times by both government agencies and health organizations
- Deaths in US is are caused by alcohol and prescription drug overdoses

# Thank You!

Josh Stanley

Strains of Hope

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