

| | Te
 | rpene Con | centrations in C
 | Cannabis (mg/g)
 | | Terpene
Nerolidol | Found In
neroli, ging
 | ger, jasmine
 | Smell
wood, fresh bark | | ure 2 – Table
trating the 10 | |

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---|--

---|---|---|---|--|
| 40 |
 | • |
 |
 | | Humulene
Caryophyll | hops
 | ps, black pepp
 | hoppy
er spicy, sweet | terp | enes selected | Idocto |
| 35 |
 | |
 |
 | n = 958 | Linalool
d-Terpinen | lavender, k
 | basil
 | lavender, flowery
musky, diesel | | n Figure 1 and
r associated p | |
| 25 |
 | |
 |
 | 11 - 330 | Limonene | lemon, ora
 |
 | citrus, fruity, sharp | sour | rces and smell | Istrain |
| 20 |
 | |
 |
 | | Ocimene
Myrcene |
 | iops, mango
 | sweet, herbal
sweet, musky | labe | ed is also color
els used in Figu | |
| 15 |
 | |
 |
 | Global Max Mean + STDev | b-Pinene
a-Pinene | pine trees,
pine trees,
 | , hops
, rosemary
 | pine, green wood
pine, wood | 3 an | nd Tables 1-9. | |
| 5 |
 | |
 |
 | Mean + 31 Dev | Table 5 |
 |
 | d-Terpine | | | |
| 0 |
 | |
 |
 | Selected | Author Last Name
Nissen | varieties (Canna
 | abis sativa L.)
 | vity of essential oils of industrial hemp | Filolerapia | | Disorders
antimicrobial, infection |
| a pinene nene | nene ann phene carene
 | Whene whene |
 | od ene inalool ene didol nene
 | Terpenes | Novak
Turkez | activity
Genotoxic and o
 | oxidative damage poten
 | annabis sativa L. and their antimicrobi | Flavor and Fr | ragrance Journal | antimicrobial, infection
antioxidant |
| arter bro | biscant work
 | Nene Sterp | ucar, ener punteoptin
 | Ino III. UN VELOCI
 | | Okumura | 2011 Terpinolene, a constraint for the formation of the f
 | component of herbal sag | ge, downregulates AKT1 expression in
 | Oncology Let | tters | cancer |
| Ŭ | Canophi
canophi
canophi
 | } ∙ ∎° | 3) –
 |
 | | Aydin
Macedo | CELLS
 | erpinolene and diclofen
 | ERTIES OF TERPINOLENE IN RAT BRAIN
ac presents antinociceptive and anti-
odel of chronic inflammation | Toxicology | ndustrial Hygiene and | cancer, antioxidant pain, inflammation |
| |
 | | ain Canachia Dat
 |
 | we where the | Total | cancer
 | <u>.</u>
 | depression | pain | | infection |
| cannabis f | lower. Display
 | ved are mear | n, standard deviatio
 | a from a set of 958 sa
on, and global maxim
 | um for 20 | 6 | 2
 | Ο
 | 0 | 1 | 0 | 2 |
| terpenes. | The 10 most p
 | prevalent ter | penes are denoted
 | l in green for further s
 | tatistical analysis. | | <u> </u>
 |
 | | | 0 | |
| Table 1 |
 | | Norolid
 |
 | | Table 6
Author Last Name | Year Title
 |
 | Limonen | Journal | | Disorders |
| Author Last Name | Year Title
THE EFFECTS OF
 | NEROLIDOL. ALLICIN AN | ID BERENIL ON THE MORPHOLOGY OF
 | Journal
 | Disorders | van Vuuren | 2007 combination
 | -
 | tiomers and 1,8-cineole alone and in | Flavor and Fr | ragrance Journal | antimicrobial, infection |
| Mohd-Shukri
Hanusova | 2011 Trypanosoma ev
ELECTRON MICR
 | ansi IN MICE : A COMPARA
OSCOPIC APPROACHES
rcia rubra essential oil an | ATIVE STUDY USING LIGHT AND
ind its components a-humulene and
 | Malaysian Applied Biology Journal
Cancer Cell and Microenvironment
 | antimicrobial, antiparasitic,
infection
cancer, colon cancer | Ibrahim
Novak | 2001 With special refe
 | erence to limonene and
 | l its suitability for control of insect pes | ts Agriculture a | nd Food Science in Finland
ragrance Journal | antimicrobial, infection
antimicrobial, infection |
| Ferreira | trans-nerolidol o
 | on adhesion and apoptosis
on mitochondrial and cel | s of colorectal cancer cells
 | Toxicology in Vitro
 | cancer, colon cancer
cancer, liver cancer
inflammation, memory, cognition, | Nissen | 2010 Characterization
varieties (Canna
 | abis sativa L.)
 | vity of essential oils of industrial hemp | Fitoterapia | | antimicrobial, infection |
| Russo | 2011 Taming THC: pot
entourage effect
 | | and phtyocannabinoid-terpenoid
 | British Journal of Pharmacology
 | inflammation, memory, cognition,
pain, depression, anxiety,
addiction, epislepsy, cancer, fungal
and bacterial infections, MRSA | Bai
Khanum | 2016Protective Effect
Human Lens Epi2010Anxiety-Herbal T
 | ithelial Cells via the p38
 | t Oxidative Stress-Induced Cell Dama <u>c</u>
8 Pathway | Longevity
Research and | edicine and Cellular
d Reviews in Biomedicine | antioxidant
anxiety |
| Celik |
 | s of nerolidol on thioaceta
stem in male rats | amide-induced damage of the
 | Biomedical Research
 | testicular damage | Lehrner | 2008 Ambient odor of female patients
 | f orange in a dental offic
 | ce reduces anxiety and improves moo | Filysiology a | | anxiety |
| Total | cancer
 | anxiety | depression
 | pain insomnia
 | infection | Costa
Lima | 2013Citrus aurantiun
HT1A-receptors2012LopesCampelo2
 | and reduces cholestero
 | s anxiolytic like activity mediated by 5
ol after repeated oral treatment | Medicine | y, Biochemistry, and | anxiety, cholestrol, cardiovascular
anxiety, stress |
| 5 | 3
 | 1 | 1
 | 1 0
 | 2 | Lopes Campelo
Garcia | oil in mice
 | lytic and antidepressant
drug perillyl alcohol is a
 | t activities of Citrus limon (Burn) esser
a Na/K-ATPase inhibitor | ntial Die Pharmaz | ie
d Cellular Biochemistry | anxiety, stress, depression
cancer |
| Table 2 |
 | | Humule
 | ene
 | | Da Fonesca | administration in
 | n adults with recurrent
 | idy of perillyl alcohol intranasal
malignant gliomas
ma Successfully Treated with Monoter | Surgical Neu | | cancer, glioma |
| Author Last Name
Legault | Year Title
2003 Antitumor Activi
 | ty of Balsam Fir Oil: Produ
Imulene as Possible Mech | uction of Reactive Oxygen Species
 | Journal
Planta Medica
 | Disorders
cancer | Da Fonesca
Zetola | -
 |
 | ation
extracts from Lippia alba Verbenacea | <u> </u> | ncer Therapy
thnopharmacology | cancer, glioma, glioblastoma
convulsions, stress, anxiety |
| Hanusova | 2015 The effect of My trans-nerolidol o
 | rcia rubra essential oil an
n adhesion and apoptosis | id its components a-humulene and
s of colorectal cancer cells
signaling pathways modulate Á
 | Cancer Cell and Microenvironment
 | cancer, colon cancer | McPartland
Navarra |
 |
 | er Than the Sum of Their Parts? | Frontiers in P | Pharmacology | entourage
infection, inflammation, cancer,
anxiety, neuroprotective, pain, |
| Lan
Kumar | 2000 Hypericum perfo
 | ced apoptosis in human co
pratum: Nature's mood sta | olorectal cancer HT29 cells
 | Oncology Reports
Indian Journal of Experimental Biology
 | cancer, colon cancer
depression, anxiety, infection | Chaudhary | 2009 Perillyl alcohol a
and tumorigene
 |
 | naling to inhibit murine skin inflammat | ion Chemico-Biol | logical Interactions | cardiovascular
inflammation, cancer |
| Totol | humulene in exp
 | perimental airways allergi | ic inflammation
 | British journal of Pharmacology
 | inflammation, allergey | Russo | 2011 Taming THC: pot
entourage effec
 | tential cannabis synerg
 | y and phtyocannabinoid-terpenoid | British Journa | al of Pharmacology | inflammation, memory, cognition,
pain, depression, anxiety,
addiction, epislepsy, cancer, funga |
| Total | cancer
 | | depression
 | pain insomnia
 | . infection | Cheng | 2009 Neuropharmaco
japonica
 | plogical activities of phy
 | toncide released from Cryptomeria | Journal of Wo | ood Science | and bacterial infections, MRSA insomnia, anxiety, pain |
| 5 | 3
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 | _ |
 | 0 0
 | – | d'Alessio |
 |
 | ts Metabolite Perillyl Alcohol | Rejuvenation | | stress, anxiety |
| Table 3
Author Last Name | Year Title
 | _ | Caryop
 | hyllene
 | ⊥
Disorders | Total | 2014 Anti-Stress Effect
 | anxiety
 | ts Metabolite Perillyl Alcohol | Rejuvenation | | stress, anxiety |
| | 2014 The cannabinoid intake and atten
 | | ryophyllene, reduced voluntary alcoho
lace preference and sensitivity in mice
 | Journal
 | L
Disorders
alcoholism, addiction | | 2014 Anti-Stress Effec
 |
 | | | | |
| Author Last Name | 2014The cannabinoid
intake and atten2010Characterization
varieties (Canna2001Essential oils of
 | n and antimicrobial activity
bis sativa L.) |
 | Journal
 | | Total
20
Table 7 | 2014 Anti-Stress Effect
Cancer
6
 | anxiety
 | | pain
3 | | infection
6 |
| Author Last Name
Al Monsouri
Nissen
Novak
Sepahvand | 2014The cannabinoid
intake and atten2010Characterization
varieties (Canna2001Essential oils of
activity2014C hemicalcompto
of the aerial part
 | and antimicrobial activity
bis sativa L.)
different cultivars of Canr
psition, antioxidant activity
ts of S alvia sclareoides | ryophyllene, reduced voluntary alcoho
lace preference and sensitivity in mice
by of essential oils of industrial hemp
nabis sativa L. and their antimicrobial
by and antibacterial effect of essential
 | Journal
Pharmacology, Biochemistry, and
Behavior
Fitoterapia
Flavor and Fragrance Journal
OII
Asian Pacific Journal of Tropical Medicine
 | alcoholism, addiction
antimicrobial, infection
antimicrobial, infection
antioxidant, infection | Total
20
Table 7
Author Last Name
Sepahvand | 2014 Anti-Stress Effect Cancer 6 Year Title 2014 C hemicalcompto of the aerial part
 | anxiety
10
osition, antioxidant activ
 | depression
2
Ocimene | pain
3
Journal
Asian Pacific | insomnia
1
Journal of Tropical Medicine | Disorders
antioxidant, infection |
| Author Last Name
Al Monsouri
Nissen
Novak
Sepahvand
Bahi | 2014The cannabinoid
intake and attend2010Characterization
varieties (Canna2001Essential oils of
activity2014C hemicalcompto
of the aerial part2014-Caryophyllene,
relevant to anxie2015Caryophyllene p
 | and antimicrobial activity
bis sativa L.)
different cultivars of Canr
osition, antioxidant activity
ts of S alvia sclareoides
a CB2 receptor agonist pr
ety and depression in mic
potently inhibits solid tumo | ryophyllene, reduced voluntary alcoho
lace preference and sensitivity in mice
by of essential oils of industrial hemp
nabis sativa L. and their antimicrobial
ty and antibacterial effect of essential
roduces multiple behavioral changes
te
or growth and lymph node metastasis
 | Journal
Journal
Pharmacology, Biochemistry, and
Behavior
Fitoterapia
Flavor and Fragrance Journal
oil
Asian Pacific Journal of Tropical Medicine
Physiology and Behavior
 | alcoholism, addiction
antimicrobial, infection
antimicrobial, infection
antioxidant, infection
anxiety, depression, stresscb
cancer, metastasis, melanoma, | Total
20
Table 7
Author Last Name | 2014 Anti-Stress Effect Cancer 6 Year Title 2014 C hemicalcomptor 2014 C hemicalcomptor 2015 RELAXANT EFFE AND ITS POSSIB
 | anxiety
10
osition, antioxidant activ
rts of S alvia sclareoides
CTS OF OCIMUM BASILI
BLE MECHANISM(S)
 | depression
2
Ocimene | Journal
Asian Pacific
NS DARU Journal
Sciences | insomnia
1 | infection
6
Disorders |
| Author Last Name
Al Monsouri
Nissen
Novak
Sepahvand | 2014The cannabinoid
intake and attend2010Characterization
varieties (Canna2001Essential oils of
activity2014C hemicalcomptor
of the aerial part2014C chemicalcomptor
of the aerial part2014C caryophyllene,
relevant to anxie2015Caryophyllene p
B16F10 melanor
 | and antimicrobial activity
bis sativa L.)
different cultivars of Canr
osition, antioxidant activity
ts of S alvia sclareoides
a CB2 receptor agonist pr
ety and depression in mic
potently inhibits solid tumo
ma cells in high-fat diet-ir | ryophyllene, reduced voluntary alcoho
lace preference and sensitivity in mice
by of essential oils of industrial hemp
nabis sativa L. and their antimicrobial
ty and antibacterial effect of essential
roduces multiple behavioral changes
 | Journal
Pharmacology, Biochemistry, and
Behavior
Fitoterapia
Flavor and Fragrance Journal
Oil
Asian Pacific Journal of Tropical Medicine
Physiology and Behavior
 | alcoholism, addiction
antimicrobial, infection
antimicrobial, infection
antioxidant, infection
anxiety, depression, stresscb | Total
20
Table 7
Author Last Name
Sepahvand
Boskabady | 2014 Anti-Stress Effect Cancer 6 Year Title 2014 C hemicalcompo
of the aerial par
of the aerial par 2005 RELAXANT EFFE
AND ITS POSSIB 2006 Antidepressant
elegans 2010 Antimicrobial act
 | anxiety
10
osition, antioxidant activits of S alvia sclareoides
CTS OF OCIMUM BASILI
BLE MECHANISM(S)
and anxiolytic effects of
 | depression
2
Ocimene
vity and antibacterial effect of essenti
s
ICUM ON GUINEA PIG TRACHEAL CHAIL | Journalal oilJournalAsian PacificNSDARU JournalJournal of EndImJundishapur J | insomnia
1
Journal of Tropical Medicine
I of Pharmaceutical | bisorders
antioxidant, infection
bronchodilation |
| Author Last NameAl MonsouriNissenNovakSepahvandBahiJungHerrera-RuizKumarMcPartland | 2014The cannabinoid
intake and attend2010Characterization
varieties (Canna2001Essential oils of
activity2014C hemicalcomptor
of the aerial part2014C hemicalcomptor
of the aerial part2014Caryophyllene,
relevant to anxie2015Caryophyllene p
B16F10 melanor2006Antidepressant a
elegans2000Hypericum perfor
20012001Cannabis and Car
 | and antimicrobial activity
bis sativa L.)
different cultivars of Canr
osition, antioxidant activity
ts of S alvia sclareoides
a CB2 receptor agonist pr
ety and depression in mic
otently inhibits solid tumo
ma cells in high-fat diet-ir
and anxiolytic effects of h
oratum: Nature's mood sta
annabis Extracts: Greater | ryophyllene, reduced voluntary alcoho
lace preference and sensitivity in mice
by of essential oils of industrial hemp
nabis sativa L. and their antimicrobial
by and antibacterial effect of essential
roduces multiple behavioral changes
be
or growth and lymph node metastasis
nduced obese C57BL/6N mice
hydroalcoholic extract from Salvia
abilizer
Than the Sum of Their Parts?
 | Journal
Journal
Pharmacology, Biochemistry, and
Behavior
Fitoterapia
Flavor and Fragrance Journal
Asian Pacific Journal of Tropical Medicine
Physiology and Behavior
Physiology and Behavior
Carcinogenesis
Journal of Enthnopharmacology
Indian Journal of Experimental Biology
 | alcoholism, addictionantimicrobial, infectionantimicrobial, infectionantioxidant, infectionanxiety, depression, stresscbcancer, metastasis, melanoma,
obesitydepression, anxiety
depression, anxiety, infection
entourage | Total
20
Table 7
Author Last Name
Sepahvand
Boskabady
Herrera-Ruiz
Taran | 2014 Anti-Stress Effect Cancer 6 Year Title 2014 C hemicalcompo
of the aerial par 2005 RELAXANT EFFE
AND ITS POSSIB 2006 Antidepressant
elegans 2010 Antimicrobial act 2013 Hypnotic Effect 2011 SEDATIVE AND H
 | osition, antioxidant activity
ts of S alvia sclareoides
CTS OF OCIMUM BASILI
BLE MECHANISM(S)
and anxiolytic effects of
ctivity of essential oils o
of Salvia reuterana Bois
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Ocimene
vity and antibacterial effect of essenti
ICUM ON GUINEA PIG TRACHEAL CHAIL
f hydroalcoholic extract from Salvia | Journal
Asian Pacific
NS DARU Journal
Sciences
Journal of Ent
MI Jundishapur J | insomnia
1
Journal of Tropical Medicine
I of Pharmaceutical
thnopharmacology
Journal of Microbiology
edicinal Plants | Disorders
antioxidant, infection
bronchodilation
depression, anxiety
infection |
| Author Last NameAl MonsouriNissenNovakSepahvandBahiJungHerrera-RuizKumar | 2014The cannabinoid
intake and attend2010Characterization
varieties (Canna2001Essential oils of
activity2014C hemicalcomptor
of the aerial part2014C hemicalcomptor
of the aerial part2014C caryophyllene,
relevant to anxie2015Caryophyllene p
B16F10 melanor2006Antidepressant a
elegans2000Hypericum perfor
20012009Cannabinoids, E
 | and antimicrobial activity
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a CB2 receptor agonist pr
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otently inhibits solid tumo
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and anxiolytic effects of h
oratum: Nature's mood sta
annabis Extracts: Greater | ryophyllene, reduced voluntary alcoho
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by of essential oils of industrial hemp
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or growth and lymph node metastasis
nduced obese C57BL/6N mice
hydroalcoholic extract from Salvia
abilizer
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Pharmacology, Biochemistry, and
Behavior
Fitoterapia
Flavor and Fragrance Journal
Asian Pacific Journal of Tropical Medicine
Physiology and Behavior
Carcinogenesis
Journal of Enthnopharmacology
 | alcoholism, addictionantimicrobial, infectionantimicrobial, infectionantioxidant, infectionantioxidant, infectionanxiety, depression, stresscbcancer, metastasis, melanoma,
obesitydepression, anxietydepression, anxiety, infection
entourage
inflammation, crohns,
atherosclerosis, osteoarthritis | Total
20
Table 7
Author Last Name
Sepahvand
Boskabady
Herrera-Ruiz
Taran
Vaseghi
Andalib | Year Title 2014 Anti-Stress Effect G G Year Title 2014 C hemicalcompo
of the aerial par
of the aerial par 2005 RELAXANT EFFE
AND ITS POSSIB 2006 Antidepressant
elegans 2010 Antimicrobial act 2013 Hypnotic Effect 2011 SEDATIVE AND H
USED FOR TREA
 | osition, antioxidant activits of S alvia sclareoides
CTS OF OCIMUM BASILI
BLE MECHANISM(S)
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ctivity of essential oils of
of Salvia reuterana Bois
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Journal of Me
EXCLI Journal | insomnia
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Journal of Tropical Medicine
I of Pharmaceutical
thnopharmacology
Journal of Microbiology
edicinal Plants | Disorders
antioxidant, infection
bronchodilation
depression, anxiety
infection
insomnia
insomnia |
| Author Last NameAl MonsouriNissenNovakSepahvandBahiJungHerrera-RuizKumarMcPartlandBurstein | 2014The cannabinoid
intake and attend2010Characterization
varieties (Canna2001Essential oils of
activity2014C hemicalcomptor
of the aerial part2014C hemicalcomptor
of the aerial part2014C caryophyllene,
relevant to anxie2015Caryophyllene p
B16F10 melanor2006Antidepressant a
elegans2000Hypericum perfor
20012003Cannabis and Ca
20082008Anti-inflammato
 | and antimicrobial activity
abis sativa L.)
different cultivars of Canr
osition, antioxidant activity
ts of S alvia sclareoides
a CB2 receptor agonist pr
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otently inhibits solid tumo
ma cells in high-fat diet-ir
and anxiolytic effects of h
oratum: Nature's mood sta
annabis Extracts: Greater
ndocannabinoids, and Rel
ry cannabinoids in diet | ryophyllene, reduced voluntary alcoho
lace preference and sensitivity in mice
by of essential oils of industrial hemp
nabis sativa L. and their antimicrobial
by and antibacterial effect of essential
roduces multiple behavioral changes
be
or growth and lymph node metastasis
nduced obese C57BL/6N mice
hydroalcoholic extract from Salvia
abilizer
Than the Sum of Their Parts?
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Journal
Pharmacology, Biochemistry, and
Behavior
Fitoterapia
Flavor and Fragrance Journal
Asian Pacific Journal of Tropical Medicine
Physiology and Behavior
Physiology and Behavior
Carcinogenesis
Journal of Enthnopharmacology
Indian Journal of Experimental Biology
The AAPS Journal
 | alcoholism, addictionantimicrobial, infectionantimicrobial, infectionantioxidant, infectionanxiety, depression, stresscbcancer, metastasis, melanoma,
obesitydepression, anxietydepression, anxiety, infectionentourageinflammationinflammation, crohns, | Total
20
Table 7
Author Last Name
Sepahvand
Boskabady
Herrera-Ruiz
Taran
Vaseghi | 2014 Anti-Stress Effect Cancer 6 Year Title 2014 C hemicalcompo
of the aerial par 2005 RELAXANT EFFE
AND ITS POSSIB 2006 Antidepressant
elegans 2010 Antimicrobial act 2013 Hypnotic Effect 2011 SEDATIVE AND H
 | osition, antioxidant activits of S alvia sclareoides
CTS OF OCIMUM BASILI
BLE MECHANISM(S)
and anxiolytic effects of
ctivity of essential oils o
of Salvia reuterana Bois
HYPNOTIC EFFECTS OF
 | depression
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Definitional effect of essentia
CUM ON GUINEA PIG TRACHEAL CHAIR
f hydroalcoholic extract from Salvia
of Ferulago angulata subsp. carduchord
ss for Treatment of Insomnia
IRANIAN TRADITIONAL MEDICINAL HEF | Journal
Asian Pacific
DARU Journal
Sciences
Journal of Ent
Manual Sciences | insomnia
1
Journal of Tropical Medicine
I of Pharmaceutical
thnopharmacology
Journal of Microbiology
edicinal Plants | Disorders
antioxidant, infection
bronchodilation
depression, anxiety
infection
insomnia
insomnia |
| Author Last NameAl MonsouriNissenNovakSepahvandBahiJungHerrera-RuizKumarMcPartlandBursteinGertsch | 2014The cannabinoid
intake and attend2010Characterization
varieties (Cannal2001Essential oils of
activity2014C hemicalcompo
of the aerial part2014C hemicalcompo
of the aerial part2014C caryophyllene,
relevant to anxie2015Caryophyllene p
B16F10 melanor2006Antidepressant a
elegans2000Hypericum perfor
20012003Anti-inflammato2014Taming THC: pot
entourage effect2011-Caryophyllene I
CB2 Receptor Action
 | and antimicrobial activity
abis sativa L.)
different cultivars of Canr
osition, antioxidant activity
ts of S alvia sclareoides
a CB2 receptor agonist pr
ety and depression in mic
otently inhibits solid tumo
ma cells in high-fat diet-ir
and anxiolytic effects of h
oratum: Nature's mood sta
annabis Extracts: Greater
ndocannabinoids, and Rel
ry cannabinoids in diet
tential cannabis synergy a
ts | ryophyllene, reduced voluntary alcoho
lace preference and sensitivity in mice
by of essential oils of industrial hemp
nabis sativa L. and their antimicrobial
by and antibacterial effect of essential of
roduces multiple behavioral changes
be or growth and lymph node metastasis
nduced obese C57BL/6N mice
hydroalcoholic extract from Salvia
abilizer
Than the Sum of Their Parts?
Hated Analogs in Inflammation
 | Journal
Journal
Pharmacology, Biochemistry, and
Behavior
Fitoterapia
Flavor and Fragrance Journal
Asian Pacific Journal of Tropical Medicine
Physiology and Behavior
Physiology and Behavior
Carcinogenesis
Journal of Enthnopharmacology
Indian Journal of Experimental Biology
The AAPS Journal
Communicative & Integrative Biology
British Journal of Pharmacology
 | alcoholism, addictionantimicrobial, infectionantimicrobial, infectionantioxidant, infectionantioxidant, infectionanxiety, depression, stresscbcancer, metastasis, melanoma,
obesitydepression, anxietydepression, anxietydepression, anxiety, infection
entourage
inflammation, crohns,
atherosclerosis, osteoarthritisinflammation, memory, cognition,
pain, depression, anxiety,
addiction, epislepsy, cancer, fungal
and bacterial infections, MRSAinflammation, ulcerative colitis | Total
20
Table 7
Author Last Name
Sepahvand
Boskabady
Herrera-Ruiz
Taran
Vaseghi
Andalib
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Table 7
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 | and antimicrobial activity
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ctivation and PPAR Pathwa
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dent manner
in Treatment Is Neuroproto
d Microglia Activation after
ic activity of -caryophyller
binoid System, Cannabino
d CB2 receptor-selective p
e effects in mouse models
CTS OF OCIMUM BASILICU-
LE MECHANISM(S)
activity of Litsea glaucesc
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and anxiolytic effects of h
in the Management of Psyce
annabis Extracts: Greater
essential oil: from basic r
ry activity of linalool and l
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essential oil: from basic r
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y of essential oils of industrial hemp
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Than the Sum of Their Parts?
lated Analogs in Inflammation
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ay
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Motor Cortex Excitotoxic Injury
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oids, and Pain
ohytocannabinoid beta-caryophyllene
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antimicrobial, infection
antioxidant, infection
anxiety, depression, stresscb
cancer, metastasis, melanoma,
obesity
depression, anxiety
depression, anxiety, infection
entourage
inflammation, crohns,
atherosclerosis, osteoarthritis
inflammation, memory, cognition,
pain, depression, anxiety,
addiction, epislepsy, cancer, fungal
and bacterial infections, MRSA
inflammation, ulcerative colitis
nephrotoxicity, renal failure, kidney
disease, inflammation, oxidative
stress
neuroprotective, excitotoxicity,
inflammation
pain
pain, chronic pain
pain, neuropathic pain,
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pain, stress, depression
bronchodilation
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anxiety, stress, depression
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depression, anxiety, panic, stress,
sexual dysfunction,
convulsions
entourage
infection, inflammation, cancer,
anxiety, neuroprotective, pain,
cardiovascular
inflammation, memory, cognition,
pain, depression, anxiety,
addiction, epislepsy, cancer, fungal
and bacterial infections, MRSA | Table 7
Author Last Name
Sepahvand
Boskabady
Herrera-Ruiz
Taran
Vaseghi
Andalib
Table 8
Author Last Name
Nissen
Novak
Costa
Zetola
Kumar
McPartland
Russo
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Cheng
Novak
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Zetola
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Russo
Cheng
Author Last Name
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McPartland
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Navarra | 2014 Anti-Stress Effect Cancer
6 Year Title 2014 C hemicalcompo
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2005 RELAXANT EFFE
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of S alvia sclareoides
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of Salvia reuterana Bois
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essential oil: from basic reserver
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toncide released from Cryptomeria
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antioxidant, infection
bronchodilation
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insomnia
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infection
antimicrobial, infection
anxiety, cholestrol, cardiovascular
convulsions, stress, anxiety
depression, anxiety, infection
entourage
inflammation, memory, cognition,
pain, depression, anxiety, pain
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extracts from Lippia alba Verbenacear
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Indian Journal
Fitoterapia
British Journal
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CNS Drugs
Journal of End
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antioxidant, infection
bronchodilation
depression, anxiety
infection
insomnia
insomnia
insomnia
infection
antimicrobial, infection
anxiety, cholestrol, cardiovascular
convulsions, stress, anxiety
depression, anxiety, infection
entourage
inflammation, memory, cognition,
pain, depression, anxiety, pain
insomnia, anxiety, pain
depression, anxiety, pain
depression, anxiety, pain
depression, anxiety, infection
depression, anxiety, painc, stress,
sexual dysfunction, cancer, anxiety,
infection
infection, inflammation, cancer, anxiety,
insomnia, anxiety, pain |

| | Terpene Concentrations in C

 | Cannabis (mg/g) |
 | Terpene
Nerolidol | Found In
neroli, ging
 | ger, jasmine | Smell
wood, fresh bark | | ure 2 – Table
trating the 10
 | |

--|---
--
--|--|--
--|--|--|---|--|
| 40 |

 | (0 0/ |
 | Humulene
Caryophy | e hops
 | ps, black pepper | hoppy | terp | enes selected
 | |
| 35 |

 | | n = 958
 | Linalool
d-Terpine | lavender, l
 | basil | lavender, flowery
musky, diesel | | n Figure 1 and
r associated p
 | |
| 25 |

 | | 11 - 330
 | Limonene | e lemon, ora
 | - | citrus, fruity, sharp
sweet, herbal | sour | ces and smeled is also colo
 | I Strai |
| 20 |

 | |
 | Myrcene
b-Pinene | bay leaf, h
 | nops, mango | sweet, musky | labe | Is used in Figu
 | |
| 15 10 |

 | | Global Max Mean + STDev
 | a-Pinene |
 | , rosemary | pine, green wood
pine, wood | | d Tables 1-9.
 | |
| 5 |

 | | Mean
 | Table 5
Author Last Name | Year Title
 | | d-Terpine | ene |
 | Disorders |
| |

 | | Selected
 | Nissen
Novak | 2010 Characterization
varieties (Canna
 | abis sativa L.) | y of essential oils of industrial hemp
nabis sativa L. and their antimicrobia | D Fitoterapia | agrance Journal
 | antimicrobial, infection
antimicrobial, infection |
| 2-pinene preinene | nene odol nene carene lene oxide nene nene product of terpine of the nene of the carene of the caren

 | on inalogicene diddinene | Terpenes
 | Turkez | 2015 Genotoxic and c
exposure to ter
 | pinolene in vitro | als in human lymphocytes after | Cytotechnolo | | antioxidant
 |
| - a a ler - or | Discarring and milere contened of the product of th

 | in the do |
 | Okumura
Aydin | K562 cells
 | | downregulates AKT1 expression in
TIES OF TERPINOLENE IN RAT BRAIN | Oncology Let
Archives of In | ters
idustrial Hygiene and | cancer
cancer, antioxidant
 |
| | canophylies drie en drie hier hier is

 | |
 | Macedo | CELLS
 | erpinolene and diclofenac
ynergistic effects in a mod | presents antinociceptive and anti-
lel of chronic inflammation | Toxicology
Brazilian Jour
Biological Res | nal of Medical and
search
 | pain, inflammation |
| Figure 1 | ده
L - Terpene Concentrations in Cannabis - Dat

 | a from a set of 958 sa | imples of
 | Total | cancer
 | anxiety | depression | pain | insomnia
 | infection |
| cannabis f | lower. Displayed are mean, standard deviation The 10 most prevalent terpenes are denoted

 | on, and global maxim | um for 20
 | 6 | 2
 | 0 | 0 | 1 | 0
 | 2 |
| |

 | |
 | Table 6 |
 | | Limonene | ρ |
 | |
| Table 1 | Nerolido

 | ol |
 | Author Last Name
van Vuuren |
 | ctivity of limonene enantio | omers and 1,8-cineole alone and in | Journal | agrance Journal
 | Disorders
antimicrobial, infection |
| Author Last Name
Mohd-Shukri | Year Title
THE EFFECTS OF NEROLIDOL, ALLICIN AND BERENIL ON THE MORPHOLOGY OF
2011 Trypanosoma evansi IN MICE : A COMPARATIVE STUDY USING LIGHT AND

 | Journal
Malaysian Applied Biology Journal | Disorders
antimicrobial, antiparasitic,
infection
 | Ibrahim | 2007 combination
2001 Insecticidal, rep
With special ref
 | pellent, antimicrobial activi
ference to limonene and its | ity and phytotoxicity of essential oils
s suitability for control of insect pest | s: Agriculture a | nd Food Science in Finland
 | antimicrobial, infection |
| Hanusova | ELECTRON MICROSCOPIC APPROACHES 2015 The effect of Myrcia rubra essential oil and its components a-humulene and trans-nerolidol on adhesion and apoptosis of colorectal cancer cells 2012 Nerolidal effects on mitochondrial and cellular energetics

 | Cancer Cell and Microenvironment | cancer, colon cancer
 | Novak | 2001 activity
 | | nabis sativa L. and their antimicrobia
y of essential oils of industrial hemp | | agrance Journal
 | antimicrobial, infection |
| Ferreira | 2012 Nerolidol effects on mitochondrial and cellular energetics
2011 Taming THC: potential cannabis synergy and phtyocannabinoid-terpenoid
antourage effects

 | Toxicology in Vitro
British Journal of Pharmacology | cancer, liver cancer
inflammation, memory, cognition,
pain, depression, anxiety,
 | Nissen
Bai | 2010 varieties (Canna
2016 Protective Effect
 | abis sativa L.) | Dxidative Stress-Induced Cell Damag | ge in Oxidative Me
Longevity | dicine and Cellular
 | antimicrobial, infection
antioxidant |
| Celik | 2011 entourage effects 2016 Beneficial effects of nerolidol on thioacetamide-induced damage of the

 | Biomedical Research | addiction, epislepsy, cancer, fungal
and bacterial infections, MRSA
 | Khanum
Lehrner | 2010 Anxiety-Herbal
 | Treatment: A Review
f orange in a dental office | reduces anxiety and improves moo | and Biotechn |
 | anxiety
anxiety |
| Total | reproductive system in male rats

 | | infoction
 | Costa | Citrus aurantiur
 | m L. essential oil exhibits a | anxiolytic like activity mediated by 5
after repeated oral treatment | 5- BMC Complements
Medicine | mentary & Alternative
 | anxiety, cholestrol, cardiovas |
| 5 | cancer anxiety depression

 | pain insomnia | infection
2
 | Lima
Lopes Campelo | 2012 LopesCampelo2
2011 Sedative, anxiol
oil in mice
 | • | ctivities of Citrus limon (Burn) esser | Behavior | y, Biochemistry, and
e
 | anxiety, stress
anxiety, stress, depression |
| |

 | 1 0 | ۷
 | Garcia
Da Fonesca | 2010 The anticancer
Preliminary resu
 | drug perillyl alcohol is a Na
ults from a phase I/II study
in adults with recurrent ma | of perillyl alcohol intranasal | Molecular and
Surgical Neur | d Cellular Biochemistry
ology
 | cancer
cancer, glioma |
| Table 2
Author Last Name | Year Title
Antitumer Activity of Balsam Eir Oily Breduction of Beactive Ownern Species

 | Journal | Disorders
 | Da Fonesca | 2010 Case of Advance
Perillyl Alcohol b
 | ed Recurrent Glioblastoma
by Intranasal Administratio | a Successfully Treated with Monoterp | |
 | cancer, glioma, glioblastoma |
| Legault
Hanusova | 2003Antitumor Activity of Balsam Fir Oil: Production of Reactive Oxygen Species
Induced by α-Humulene as Possible Mechanism of Action2015The effect of Myrcia rubra essential oil and its components a-humulene and
trans-nerolidol on adhesion and apoptosis of colorectal cancer cells

 | Planta Medica
Cancer Cell and Microenvironment | cancer
cancer, colon cancer
 | Zetola
McPartland | (Brazilian false)
 | melissa) | Than the Sum of Their Parts? | Journal of Ent | hnopharmacology
 | convulsions, stress, anxiety
entourage
infection, inflammation, cance |
| Lan
Kumar | 2011Death receptor 5-mediated TNFR family signaling pathways modulate Á
-humulene-induced apoptosis in human colorectal cancer HT29 cells2000Hypericum perforatum: Nature's mood stabilizer

 | Oncology Reports
Indian Journal of Experimental Biology | cancer, colon cancer
depression, anxiety, infection
 | Navarra
Chaudhary | 2000 Perillyl alcohol a
 | attenuates Ras-ERK signali | research to clinical application
ing to inhibit murine skin inflammati | Frontiers in P | harmacology
ogical Interactions
 | anxiety, neuroprotective, pair
cardiovascular
inflammation, cancer |
| Rogerio | 2009 Preventive and therapeutic anti-inflammatory properties of the sesquiterpene a humulene in experimental airways allergic inflammation

 | | inflammation, allergey
 | | and tumorigene
 | | and phtyocannabinoid-terpenoid | |
 | inflammation, memory, cogni
pain, depression, anxiety, |
| Total | cancer anxiety depression

 | pain insomnia | a infection
 | Russo | entourage effec
 | cts | ncide released from Cryptomeria | | l of Pharmacology
 | addiction, epislepsy, cancer, f
and bacterial infections, MRS/ |
| 5 | 3 1 1

 | 0 0 | 1
 | Cheng
d'Alessio | japonica
 | cts of d-Limonene and Its I | | Journal of Wo
Rejuvenation |
 | insomnia, anxiety, pain
stress, anxiety |
| Table 3 |

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 | • . | | | •
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| | Caryop

 | hyllene |
 | Total | cancer
 | anxiety | depression | pain | insomnia
 | infection |
| Author Last Name
Al Monsouri | Year Title The cannabinoid receptor 2 agonist. B-carvophyllene, reduced voluntary alcoho

 | Journal
Pharmacology, Biochemistry, and | Disorders
alcoholism, addiction
 | Total | cancer
6
 | anxiety
10 | depression
2 | pain
3 | insomnia
1
 | infection
6 |
| Al Monsouri
Nissen | Year Title 2014 The cannabinoid receptor 2 agonist, β-caryophyllene, reduced voluntary alcoho
intake and attenuated ethanol-induced place preference and sensitivity in mice 2010 Characterization and antimicrobial activity of essential oils of industrial hemp
varieties (Cannabis sativa L.)

 | Journal
Pharmacology, Biochemistry, and
Behavior
Fitoterapia | alcoholism, addiction
antimicrobial, infection
 | | C
 | | 2 | 3 | insomnia
1
 | 6 |
| Al Monsouri | Year Title 2014 The cannabinoid receptor 2 agonist, β-caryophyllene, reduced voluntary alcoho
intake and attenuated ethanol-induced place preference and sensitivity in mice 2010 Characterization and antimicrobial activity of essential oils of industrial hemp

 | Journal
DI Pharmacology, Biochemistry, and
Behavior
Fitoterapia
Flavor and Fragrance Journal | alcoholism, addiction
antimicrobial, infection
antimicrobial, infection
 | 20 | Year Title 2014 C hemicalcomption
 | 10 | depression
2
Ocimene | Journal | INSOMNIA
1
 | Disorders
antioxidant, infection |
| Al Monsouri
Nissen
Novak
Sepahvand
Bahi | YearTitle2014The cannabinoid receptor 2 agonist, β-caryophyllene, reduced voluntary alcoho
intake and attenuated ethanol-induced place preference and sensitivity in mice2010Characterization and antimicrobial activity of essential oils of industrial hemp
varieties (Cannabis sativa L.)2001Essential oils of different cultivars of Cannabis sativa L. and
their antimicrobial
activity2014C hemicalcomposition, antioxidant activity and antibacterial effect of essential
of the aerial parts of S alvia sclareoides2014-Caryophyllene, a CB2 receptor agonist produces multiple behavioral changes
relevant to anxiety and depression in mice
 | Journal
Pharmacology, Biochemistry, and
Behavior
Fitoterapia
Flavor and Fragrance Journal
oil
Asian Pacific Journal of Tropical Medicine
Physiology and Behavior | alcoholism, addiction antimicrobial, infection antimicrobial, infection antioxidant, infection anxiety, depression, stresscb
 | 20
Table 7
Author Last Name
Sepahvand
Boskabady | Year Title 2014 C hemicalcomport 2005 RELAXANT EFFE AND ITS POSSIB
 | nosition, antioxidant activity
rts of S alvia sclareoides
ECTS OF OCIMUM BASILICU
BLE MECHANISM(S) | 2
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al oil
NS DARU Journal
Sciences | Journal of Tropical Medicine
of Pharmaceutical
 | 6
Disorders
antioxidant, infection
bronchodilation |
| Al Monsouri
Nissen
Novak
Sepahvand | YearTitle2014The cannabinoid receptor 2 agonist, β-caryophyllene, reduced voluntary alcoho
intake and attenuated ethanol-induced place preference and sensitivity in mice2010Characterization and antimicrobial activity of essential oils of industrial hemp
varieties (Cannabis sativa L.)2001Essential oils of different cultivars of Cannabis sativa L. and
their antimicrobial
activity2014C hemicalcomposition, antioxidant activity and antibacterial effect of essential
of the aerial parts of S alvia sclareoides2014C chemicalcomposition, antioxidant activity and antibacterial effect of essential
of the aerial parts of S alvia sclareoides2014Caryophyllene, a CB2 receptor agonist produces multiple behavioral changes
relevant to anxiety and depression in mice2015Caryophyllene potently inhibits solid tumor growth and lymph node metastasis
B16F10 melanoma cells in high-fat diet-induced obese C57BL/6N mice2006Antidepressant and anxiolytic effects of hydroalcoholic extract from Salvia
 | Journal
Pharmacology, Biochemistry, and
Behavior
Fitoterapia
Flavor and Fragrance Journal
oil
Asian Pacific Journal of Tropical Medicine
Physiology and Behavior | alcoholism, addiction antimicrobial, infection antimicrobial, infection antioxidant, infection anxiety, depression, stresscb cancer, metastasis, melanoma, obesity
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Table 7
Author Last Name
Sepahvand
Boskabady
Herrera-Ruiz
Taran | YearTitle2014C hemicalcompo
of the aerial part2005RELAXANT EFFE
AND ITS POSSIB2006Antidepressant
elegans2010Antimicrobial act
 | nosition, antioxidant activity
rts of S alvia sclareoides
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ctivity of essential oils of Fe | 2
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y and antibacterial effect of essentia
JM ON GUINEA PIG TRACHEAL CHAIN
hydroalcoholic extract from Salvia | Journal
al oil
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DARU Journal
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Journal of Ent | Journal of Tropical Medicine
of Pharmaceutical
chnopharmacology
ournal of Microbiology
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Disorders
antioxidant, infection
bronchodilation
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TERPENES AND TERPENOIDS IN CANNABIS

Marco Troiani Digamma Consulting

In Collaboration with Lief Therapeutics

ESIS: Data science can allow tors to prescribe specific ains of cannabis to patients ed on their medical condition.

The medical benefits of cannabis are becoming more evident in the nedical research community. Many of the studies that study cannabis cannabinoids can help reat inflammation, cancer, chronic pain, neurological dysfunction and nany mental health issues

Although cannabinoids are most likely the major component of the beneficial for certain aliments, conditions, or particular patients, while others are not. This strain variation cannot be accounted for by cannabinoid composition because the large majority of United States medical cannabis is 90% or greater THC by cannabinoid composition. What does vary greatly from strain to strain of cannabis is the chemical profile of terpenes and terpenoids found on the plant.

Terpenes and terpenoids are a class of volatile hydrocarbon compounds produced by many species of plants. Terpenes often responsible for the smell that humans associate with various plants, and are responsible for the unique smell of each strain of cannabis. Terpenes are present in the trichomes of the plant and are chemically bound to cannabinoids forming crystalline structures.

Terpenes also have many medical benefits, even when not associated with cannabinoids. Using databasing technology, it is possible to bridge the gap of knowledge between the medical benefits of terpenes found in cannabis and the chemical knowledge of each cannabis strain's terpene profile. To accomplish this, we built two custom databases: one to organize medical research papers on cannabis, and one to organize chemical data on cannabis samples. Jsing both of these data sets, it is possible to give doctors and patients the tools to understand the relationship between their cannabis' terpene profile and its medical benefits.

CHEMICAL ANALYSIS

Terpene data was taken from two analytical laboratories in distant parts of the United States: Massachusetts and Nevada. These labs were participating in their state's medical marijuana program and generated data over a span of over 12 months. The cannabis samples were analyzed by headspace-gas chromatography-mass spectrometry (HS-GC-MS). Laboratories were screened based on proper quality control, certifications, and GLP and ISO standards. All data is reported in mg/g, which is equivalent to per mille (‰) or part per thousand.

DATABASING

Chemical data entries were collected as samples and organized by strain and terpene values. These values were analyzed for statistical mean, standard deviation, and global maximum and this data was used to find 10 prevalent terpenes in cannabis samples for further statistical analysis (Figure 1). The data set was analyzed for the 14 most common strain names, and the 10 selected terpenes were graphed as normalized values (**Figure 3**). Values were normalized to the total mass of the 10 selected terpenes.

Medical data entries were collected as medical research publications and organized by publication data (author, date, etc), cannabinoids studied, terpenes studied, and associated medical disorders. This data set was restricted to papers focusing specifically on terpenes with an associated medical disorder, and organized by terpene (**Tables 1-9**). Totals of the numbers of paper referencing each terpene, and the subtotals for the following medical disorders were generated: cancer, anxiety, depression, pain, insomnia, and infection.

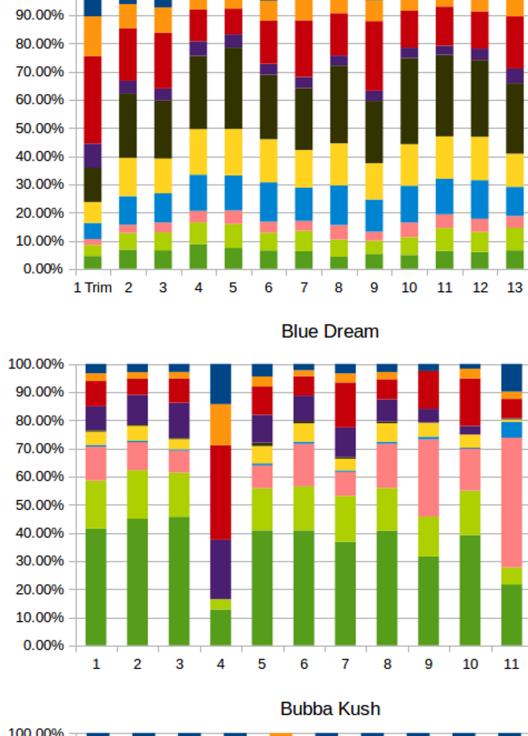
RESULTS

The chemical database contained 958 cannabis flower samples with data for 20 terpenes. Of these, ten were identified to be more prevalent in cannabis: nerolidol, humulene, caryophyllene, linalool, dterpinene, limonene, ocimene, myrcene, and alpha and beta pinene. These terpenes were selected form the set of 20 based on global maximum, standard deviation and mean, which have been illustrated in Figure 1. The remaining 10 terpenes can be said to consistently be present in trace quantities in cannabis over the data set examined.

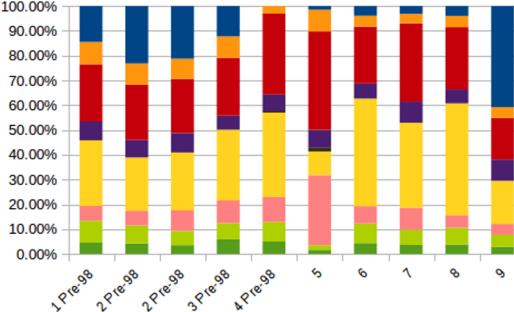
Figure 2 displays the 10 terpenes selected for further examination. Each is displayed with a color label, a non-cannabis plant er, fungal source, and a qualitative term for each terpene's smell and aroma.

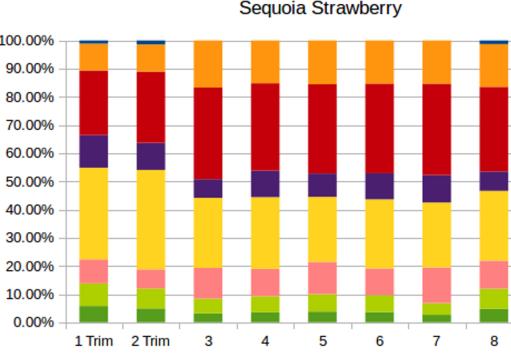
Figure 3 displays the results of the 14 most popular cannabis strains illustrated by terpene profile. Each bar in each bar graph represents a unique sample of cannabis submitted to the cannabis laboratory, with many bars indicated a higher data set. The data is normalized, showing the percentage of each terpene out of the combined mass of the ten terpenes being examined. Visually, the data shows patterns in the terpene profile that are consistent with each strain, though natural variation is readily apparent. These patterns allow medical professionals to quickly see which terpenes are major components of each cannabis strain. Continued terpene testing on each batch of medicine would ensure that strains are both labeled accurately and contain necessary amounts of certain terpenes. Larger integrated data systems would allow for real-time information about cannabis strains available at local dispensaries and pharmacies, and to search and organize those available strains by desired terpene content.

The medical database contained 259 publications from 177 Journals. After restricting the data set to entries which address both at least one specific terpene and at least one specific medical disorder, 68 publications remained. Tables 1-9 display the data from the restricted dataset organized by terpene. The totals at the bottom allow a quick review of the total number of publications for each terpene, with a subtotals by disorder. These tables allow the relative effectiveness of each terpene at treating different disorders to be reviewed at a glance. This data is designed to help inform medical professionals of which terpenes may be beneficial to their patient based on their disorder and general condition. Combined with Table 3, this allows for a medical professional to recommend strains based on a patient's condition.

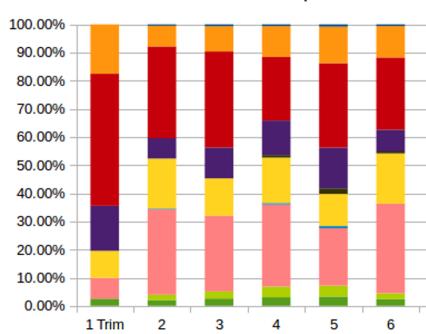


Juicy Fruit

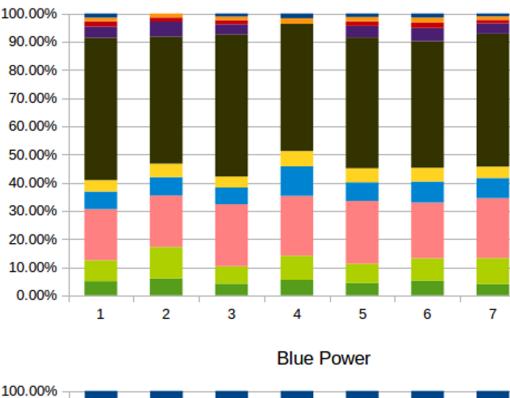


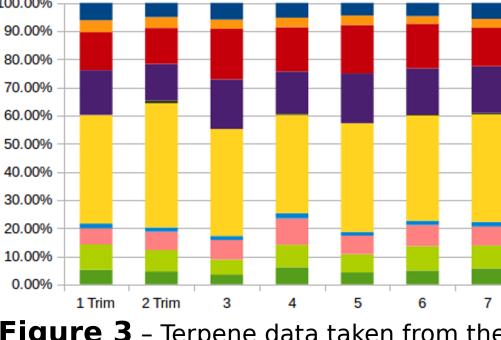


Acapulco Gold



Tangerine Power





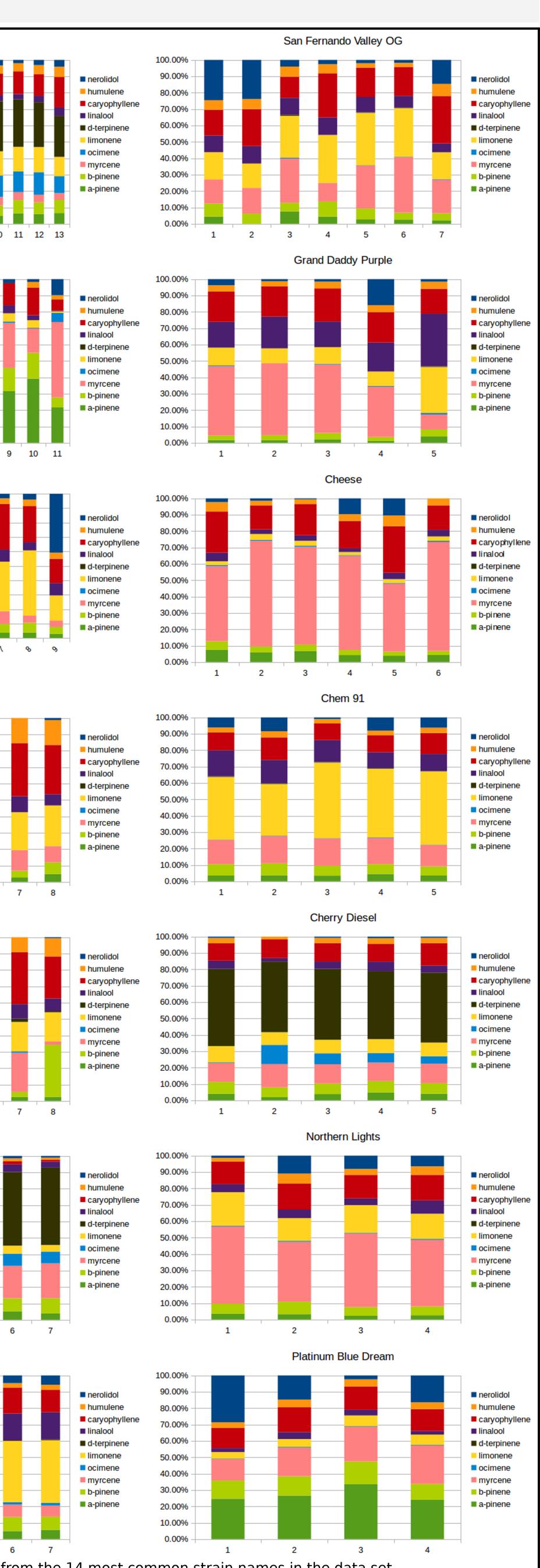


Figure 3 - Terpene data taken from the 14 most common strain names in the data set.