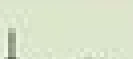


CANNABINOID BENEFITS

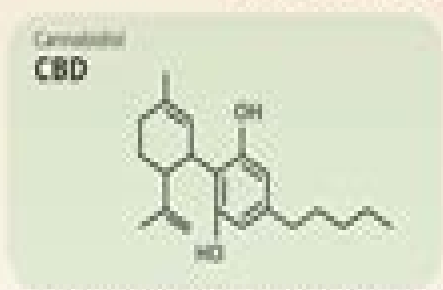
CANNABINOIDS ARE THE NATURALLY OCCURRING CHEMICAL COMPOUNDS FOUND IN THE CANNABIS PLANT. CANNABINOIDS ARE PARTLY RESPONSIBLE FOR THE WIDE ARRAY OF MEDICINAL AND PSYCHOACTIVE EFFECTS.

NON - PSYCHOACTIVE

Cannabidiol
CBD



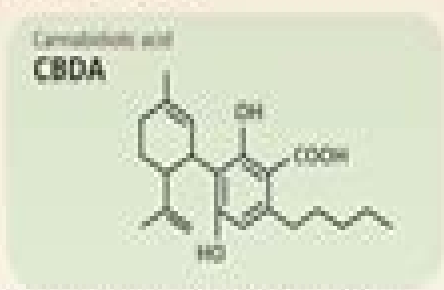
The chemical structure of Cannabidiol (CBD) is shown. It consists of a central pyrene ring system. One ring is substituted with a methyl group and a hydroxyl group. Another ring is substituted with a hydroxyl group and a long alkyl chain. The third ring is substituted with a methyl group and a hydroxyl group. The fourth ring is substituted with a methyl group and a hydroxyl group.



Relieves anxiety, convulsions, depression, inflammation and raises sedative, sleep aid and muscle relaxant

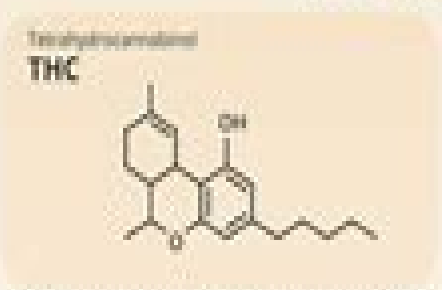
Cannabidiol acid
CBDa

The chemical structure of Cannabidiol acid (CBDa) is shown. It features a central pyran ring substituted with a methyl group, a hydroxyl group, and a carboxylic acid group. This central ring is connected to a phenyl ring and a pentyl chain.



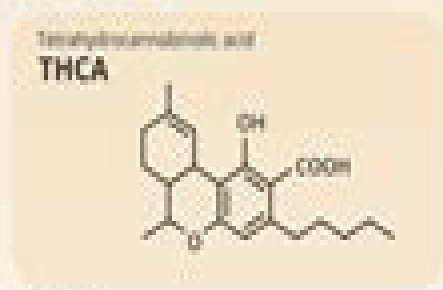
PSYCHOACTIVE

Tetrahydrocannabinol
THC

The chemical structure of Tetrahydrocannabinol (THC) is shown. It consists of a tricyclic core: a benzene ring fused to a pyran ring, which is further fused to another benzene ring. The pyran ring has a methyl group at position 2 and a hydroxyl group at position 3. The second benzene ring has a pentyl group at position 1 and a methyl group at position 4. The SMILES notation for this structure is CC1=C(C(=CC=C1C2=CC=CC=C2O)C3=CC=CC=C3C)C.

Psychotropic, parasite, anti-inflammatory, and microbial

Tetrahydrocannabinolic acid
THCA

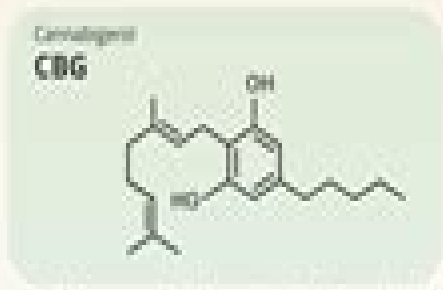
CC1=C(C)C=CC2=C1C(=C(C=C2)C(=C3C=CC(=C(C=C3)C)C(=O)O)O)C

Chemical structure

Cannabigerol
CBG

CC(C)=C/C=C/C1=CC(=C(C=C1)C=C2C=CC(=C2)C(C)C)C3C(C)C(C)C3

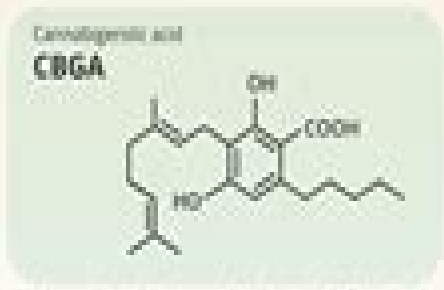
The chemical structure of Cannabigerol (CBG) is shown. It features a central biphenyl ring system. The left ring is substituted with a propyl group at the 1-position and a propenyl group at the 2-position. The right ring is substituted with a hydroxyl group at the 1-position and a propyl group at the 2-position.



Paralyses, muscle relaxant, anti-emetic, analgesic, digestive aid, stomachic (stomach function)

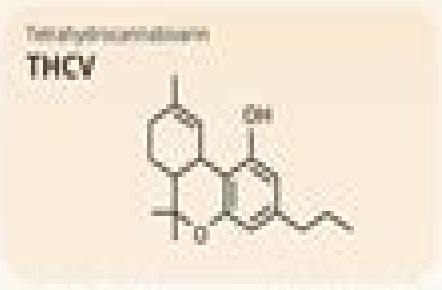
Cannabigeronic acid
CBGA

The chemical structure of Cannabigeronic acid (CBGA) is shown. It features a central benzene ring with a hydroxyl group (-OH) at the top position. To the left of the ring is a side chain containing a double bond and a methyl group. To the right of the ring is a side chain containing a carboxylic acid group (-COOH) and a long alkyl chain.



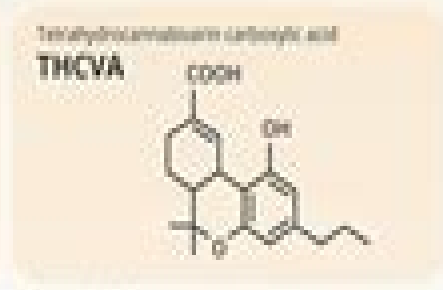
Tetrahydrocannabinol
THCV

The chemical structure of Tetrahydrocannabinol (THCV) is shown. It features a tricyclic core consisting of a benzene ring fused to a pyran ring, which is further fused to a cyclohexene ring. A hydroxyl group (-OH) is attached to the benzene ring. A propyl chain is attached to the cyclohexene ring. The pyran ring has a double bond and a methyl group.

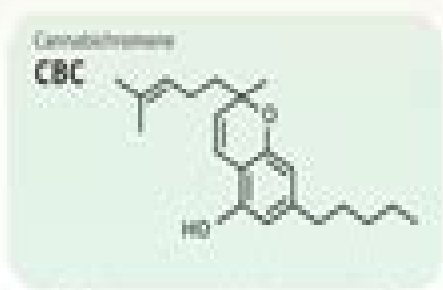


Antibody, cell memory, clonal selection, humoral, immune system

Tetrahydrocannabinolic carboxylic acid
THCVA

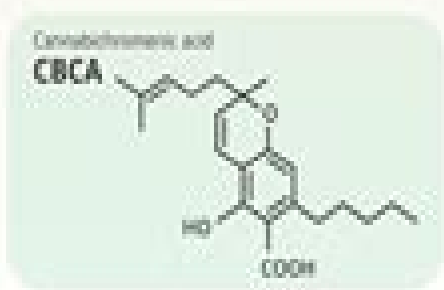
CCCC1=CC=C2C(=C1)OC3=C(C(=O)O)C=CC=C3C2

Cannabichromene
CBC

CC(C)=CC(C)(C)C1=CC=C2C(=C1)OC(=C(C=C2)C(=C(C=C3)C=CC(=C3)C)C)O

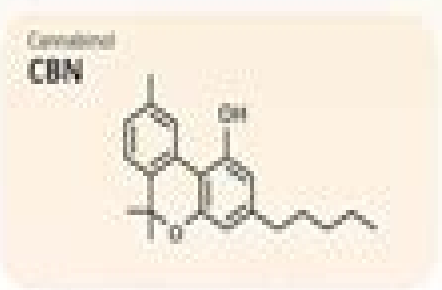
Anti-inflammatory, painkiller, treats acid reflux, anti-anxiety, antidepressant

Cannabichromene acid
CBCA

CC(C)=CC(C)(C)C1=CC=C2C(=C1)C(=C(C=C2)C(=O)O)C(O)=C3C=C(C)C(C4=CC=CC=C4O3)C5=CC=CC=C5C

Conventional
CBN

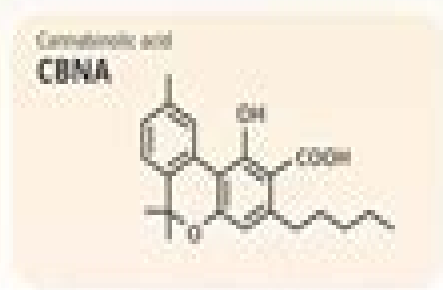
The chemical structure of Conventional CBN is shown. It features a tricyclic core consisting of a benzene ring fused to a pyran ring, which is further fused to another benzene ring. A hydroxyl group (-OH) is attached to the second carbon of the pyran ring. A long, wavy line representing a long alkyl chain is attached to the first carbon of the second benzene ring. The structure is enclosed in a rounded rectangle.



Mild psychotropics may stimulate bone growth, anesthetic, anti-emetic, analgesic, and anxiety

Carminic acid
CBNA

The chemical structure of Carminic acid (CBNA) is shown. It features a complex polycyclic core with a phenyl ring, a hydroxyl group (OH), and a carboxylic acid group (COOH). A long, wavy line indicates a long alkyl chain.



Medicinal Uses Of Cannabis And Cannabinoids

Rahim Valani



Medicinal Uses Of Cannabis And Cannabinoids:

Cannabis and Cannabinoids Ethan B Russo, 2013-09-05 Study the latest research findings by international experts This comprehensive volume presents state of the art scientific research on the therapeutic uses of cannabis and its derivatives All too often discussions of the potential medical uses of this substance are distorted by political considerations that have no place in a medical debate Cannabis and Cannabinoids Pharmacology Toxicology and Therapeutic Potential features fair equitable discussion of this emerging and controversial medical topic by the world s foremost researchers Cannabis and Cannabinoids examines the benefits drawbacks and side effects of medical marijuana as a treatment for various conditions and diseases This book discusses the scientific basis for marijuana s use in cases of pain nausea anorexia and cachexia It also explores its possible benefits in glaucoma ischemia spastic disorders and migraine Cannabis and Cannabinoids examines all facets of the medical use of marijuana including botany history biochemistry pharmacology clinical use toxicology side effects Cannabis and Cannabinoids is a reference work that will become indispensable to physicians psychologists researchers biochemists graduate students and interested members of the public No other book available offers this comprehensive even handed look at a deeply divisive subject *The Medicinal Uses of Cannabis and Cannabinoids* Geoffrey William Guy, Brian Anthony Whittle, Philip Robson, 2004 Describing all the current research findings relating to the medicinal use of cannabis and cannabinoids this title reports the latest information on the pharmacology formulation safety and efficacy of cannabis as a therapeutic agent **Medicinal Usage of Cannabis and Cannabinoids** Victor R Preedy, Vinood B. Patel, Colin R. Martin, 2023-06-02 Medicinal Usage of Cannabis and Cannabinoids offers readers a comprehensive reference on the medical usage and symptom relief provided by these compounds in a variety of disorders With coverage of neurological diseases like Alzheimer s and Parkinson s and a wide range of other afflictions including depression anxiety nausea and cancer this broad coverage allows readers to learn about symptom control along with the physiological psychological and pharmacological effects of these compounds Unique case reports are provided as well This volume provides a platform for research on the use of these compounds in improving patient care brain function and neurological dysfunction Summarizes the medicinal usage of cannabis and cannabinoids in a variety of conditions Contains chapter abstracts key facts a dictionary and a summary Examines symptom control of conditions such as depression anxiety and sleep Discusses cannabis usage in Alzheimer s Parkinson s Multiple Sclerosis and cancer Features case reports and chapters on the physiological psychological and pharmacological effects **Medicinal Cannabis: Evolution of Therapeutic Use, Future Approaches and Other Implications, Volume II** Paola Brusa, Francesca Baratta, Shimon Ben-Shabat, Massimo Collino, 2023-12-04 This Research Topic is the second volume of its kind Please see the publications of the first collection here Cannabis has been used in even the oldest traditional medicines available In the last century somewhat negative attention has prevailed when it comes to the psychotropic and addictive effects and abuse potential for this reason Cannabis

has been banned and is illegal in many countries. In recent years, however, there has been a more in-depth evaluation of the legalization of cannabinoids for medical use in several countries following heightened media attention and reports of effectiveness, although not always thoroughly backed up by scientific evidence. In fact, up to now, the results from studies discussing the efficacy of the medical use of Cannabis are sometimes contradictory and not always conclusive. Some factors fueling this inconclusiveness include the heterogeneous nature of the studied populations, different Cannabis preparations and dosages, studies with uncontrolled settings and different routes of administration. Moreover, these uncertainties are partly derived from legislative restrictions which over time have severely limited the conduction of rigorous controlled and comparable studies. The official introduction of pharmaceutical grade Cannabis inflorescences for medicinal purposes has allowed physicians and pharmacists respectively to legally prescribe and prepare several Cannabis preparations. Such products are currently being administered to patients without their efficacy being evaluated in controlled studies; for each patient, the composition and route of administration may be different. In addition, many advanced administration systems have been developed or are still under development, but few clinical trials have been completed. This second volume welcomes submissions of Original Research and Review articles building on and focusing on the in-depth analysis of the legal, technological and pharmacological aspects related to the medical use of chemically characterized Cannabis-based formulations. Studies carried out in the past or still in progress will also be considered to assess what evolution there has been in using Cannabis to treat diseases or conditions. We invite submissions dealing with the following themes, including but not limited to Cannabis-based formulations, current and future applications in therapy, legal, technological and pharmacological aspects related to the medical use of Cannabis. Non-clinical evidence supporting therapeutic applications of Cannabis, including in vivo, in vitro and in silico studies. Important note for Authors: Only studies dealing with highly purified chemically characterized Cannabis containing formulations where the chemical structure and purity must be precisely described by appropriate analytical methods will be considered for review in Experimental Pharmacology and Drug Discovery. The following studies can be accepted for review in Ethnopharmacology if the extract is characterised in sufficient detail as is needed for a licensed medicine: see here. I. Clinical Trial articles will be accepted for review only in the case that they are randomized, double-blinded and placebo-controlled. II. Any studies relating to advanced formulations or galenic preparations to better evaluate the potential effects of their application in future therapies.

Therapeutic Uses of Cannabis British Medical Association, 2020-08-17. At the last Annual Representative Meeting of the British Medical Association, a motion was passed that certain additional cannabinoids should be legalized for wider medicinal use. This report supports this landmark statement by reviewing the scientific evidence for the therapeutic use of cannabinoids and sets the agenda for change. It will be welcomed by those who believe that cannabinoids can be used in medical treatment. The report discusses in a clear and readable form the use and adverse effects of the drug for nausea, multiple sclerosis, pain, epilepsy, glaucoma and asthma.

Cannabis Use in Medicine Rahim Valani, 2022-10-18 This book examines the effectiveness of a unique area of patient care cannabis use in medicine While many American states have legalized medical marijuana the FDA still has not approved it as a treatment due to a lack of studies to prove its validity Countries such as Canada and Uruguay on the other hand have legalized cannabis This book aids in accelerating the medical legitimacy of cannabis through comprehensive coverage of its uses legality pharmacology and potential issues Organized into three parts the book begins with topics that function as an introduction to cannabis for medical use such as patient assessments the role of genetics evidence based therapy reviews legal aspects and pharmacology Subsequent chapters then delve into the practical applications of medical cannabis use including treatment for gastrointestinal disorders neurological diseases rheumatic diseases and pain management The book's final section features crucial discussions on the potential complications and adverse events in cannabis use as well as occupation and pediatric considerations Nuanced and timely Cannabis Use in Medicine is a vital resource for medical practitioners of all specialties looking to add cannabis to their repertoire of therapies

Medicinal Cannabis Deborah Malka, 2021-12-05 This book provides instruction for health professionals wanting to gain knowledge about the clinical aspects of cannabis medicine How to use cannabis with real patients not just theoretically its pitfalls and challenges as well as rewards is a vastly under covered topic Now that some form of medical cannabis is approved in almost all US states health care providers and patients Need to Know how to achieve maximum benefits by best use of this versatile herbal medicine Medicinal Cannabis Pearls for Clinical Practice introduces the scientific background of how cannabis acts medicinally its components and how cannabis affects a specific condition Key Features Provides instruction for health professionals wanting to understand the clinical practice of cannabis medicine Reviews the chemistry physiology and mechanisms of action of cannabinoids endocannabinoids and cannabis with a focus on clinical relevance Presents information on practice management of specific patient populations including pediatric youth adult elderly and pets Features over 150 case reports with learning Pearls from the author's clinical practice for 35 medical conditions Discusses specifics of dosing and delivery of cannabis in detail with strategies to promote the benefit risk ratio About the Author Deborah Malka MD PhD is a holistic physician with certification in Integrative Holistic Medicine Prior to clinical practice Dr Malka completed her PhD in Human Genetics from Columbia University and studied both natural and traditional medicine with degrees from the University of New Mexico School of Medicine and the Santa Fe College of Natural Medicine She has specialized in cannabis medicine for the past 15 years treating over 30 000 patients

Cannabinoids and Neuropsychiatric Disorders Eric Murillo-Rodriguez, S. R. Pandi-Perumal, Jaime M. Monti, 2020-12-17 This volume highlights the recent advances in the understanding of the endocannabinoid system and the likely benefit from the therapeutic effects of cannabinoid treatment in a variety of health issues Archeological evidence has shown that Cannabis has a long history of use for multiple purposes including the treatment of medical conditions The primary active constituent of the hemp plant Cannabis sativa delta 9

tetrahydrocannabinol 9 THC causes euphoria enhancement of sensory perception tachycardia antinociception difficulties in concentration and impairment of memory among other effects Despite these undesirable effects signaling is mostly inhibitory and suggests a putative role for cannabinoids as therapeutic agents by managing several diseases where inhibition of neurotransmitter release would be beneficial The themes of this book have been edited and written by world leaders in the field The contents of the volume aims at readers from a range of academic and professional disciplines such as biomedicine several areas of biology neurology clinical medicine and pharmacy

Medicinal Cannabis and CBD in Mental Healthcare
Kylie O'Brien, Philip Blair, 2021-10-27 This book functions as a clinician's guide to the use of cannabidiol CBD in the treatment of mental health conditions It conveys the scientific evidence of efficacy of CBD as well as THC and addresses the social stigma attached to its medical use The book describes the endocannabinoid system how stress and the endocannabinoid system interact and key constituents pharmacokinetics and safety aspects of medicinal cannabis focusing on CBD and THC Chapters on specific mental health conditions describe the underpinning pathomechanisms including how the endocannabinoid system is involved and summarises the scientific evidence including animal and human research for the use of CBD and THC in treatment of such conditions Topics covered include anxiety depression post traumatic stress disorder insomnia Alzheimer's Disease and autism spectrum disorder Chapters also discuss treatment guidelines and case studies Unique and focused Medicinal Cannabis and CBD in Mental Healthcare is an invaluable reference for medical practitioners seeking to adopt CBD use in their treatment plans

Cannabis/Marijuana for Healthcare Dinesh Chandra Agrawal, Rajiv Kumar, Muralikrishnan Dhanasekaran, 2022-05-07 The book contains review articles providing a comprehensive overview of cannabis marijuana's diverse healing aspects in human healthcare medicinal nutraceutical skincare etc The research articles include the role of cannabis in cancer treatment drug discovery cosmeceutical potential prophylactic and therapeutic use for treating neuropathic pain and migraine pharmacokinetics safety profile and issues related to the consumption of cannabis marijuana Another salient feature of the book is a complete mapping and region and sector wise critical analysis of cannabis marijuana patents on healthcare and future directions for the benefit of researchers and businesses entrepreneurs interested in the rapidly advancing area of cannabis The text describes cannabis marijuana's detailed legal aspects production prospects and applications for healthcare and recreational purposes in the USA It traces the traditional roots of cannabis use in Turkey Israel the Middle East Africa and India This unique compendium of articles will be useful as a reference book for students researchers academics business houses and all individuals interested in medicinal nutraceutical cosmeceutical traditional legal and commercial aspects of cannabis usage

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