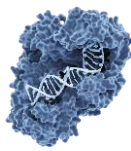
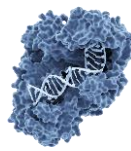


Table S1. Phytochemical Composition, Anticancer activity, Toxicological Properties, and Traditional use of study plants.

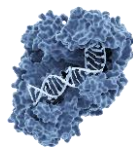
Plants	Geographical location	Toxicological Properties	Cytotoxic Activities	Phytochemical Composition	Traditional Use
<i>Aristolochia Longa</i>	<ul style="list-style-type: none"> • Asia • Africa • North and South America 	aqueous extract : <ul style="list-style-type: none"> • Atypical locomotion <ul style="list-style-type: none"> • Anorexia • Asthenia • Ataxia • Diarrhea • Urination • Hypoactivity • Micturition • Nephrotoxic and genotoxic effects • Weight loss • Diarrhea 	Significant cytotoxic activity against: <ul style="list-style-type: none"> • HBL100 cancer cell • MDA-MB-231 breast cancer cell Immunostimulatory action	<ul style="list-style-type: none"> • Essential oil - Oxygenated sesquiterpenes - Oxygenated monoterpenes - Sesquiterpene hydrocarbons - Monoterpene hydrocarbons <ul style="list-style-type: none"> • Polyphenols • Flavonoids • Tannins • Chterosides carbohydrates <ul style="list-style-type: none"> • Saponins • Alkaloids • Coumarins • Oheterosides 	<ul style="list-style-type: none"> • Constipation and intestinal affections • Skin diseases (mycosis interaigiratoires) <ul style="list-style-type: none"> • Palpitations of the aorta • abdominal pain • upper respiratory tract infections



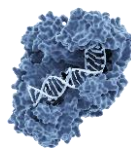
<p><i>Artemisia</i> <i>Herba-alba</i></p>	<ul style="list-style-type: none">• North Africa (from Morocco to Egypt)<ul style="list-style-type: none">• Central Asia• Mediterranean region and North-West America<ul style="list-style-type: none">• Europe	<ul style="list-style-type: none">• decrease in the relative weight of the ovary and embryo	<ul style="list-style-type: none">• Chemopreventive agents against cancer progression Significant cytotoxic activity against	<ul style="list-style-type: none">• Sesquiterpene lactones<ul style="list-style-type: none">• Flavonoids :<ul style="list-style-type: none">- Flavones- Flavonol glycosides• Phenolic compounds :<ul style="list-style-type: none">- Chlorogenic acid 4,5- O-dicaffeoylquinic acid- Isofraxidine 7-O-β-D-glucopyranoside<ul style="list-style-type: none">- 4-O-β-Dglucopyranosylcaffeic acid<ul style="list-style-type: none">- Rutin- Schaftoside- Isoschaftoside- Vicenin-2• Essential oil :- oxygenated monoterpenoids	<ul style="list-style-type: none">• Venom-repellent• Emmenagogic• Abdominal pain• Intestinal antiseptic<ul style="list-style-type: none">• Tonic• Depurative• Cholagogue• Antidiabetic
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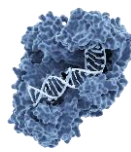
<i>Calotropis Procera</i>	<ul style="list-style-type: none"> • Tropical Africa • Western Asia • South Asia • Indochina • North Africa 	<ul style="list-style-type: none"> • Affect thrombopoiesis • Adverse effects on the spleen and liver function • Body weight changes <ul style="list-style-type: none"> • Morphological changes in some organs • Disturbance of biochemical and hematological markers 	<p>Growth inhibitory activity againsts three cancer cell lines (A549 NSCLC, U373 GBM and PC-3)</p>	<ul style="list-style-type: none"> - 3-O-rutinoside - Kaempferol - Isorhamnetine - 5-hydroxy-3,7-dimethoxyflavone-4-O-glucopyranoside - Calactin - Calotropain - Calotropagenin - Proceroside - Syriogenin - Calotoxin - Uscharin - Uzarigenin - Uscharidin, - Voruscharin - Benzoylisolineolon - Benzoyllineolone - Stigmasterol - Sitosterol 	<ul style="list-style-type: none"> • Vermifuge • Strong purgative action • Fight acute intoxications • Against veins • Against calluses • Against ringworm <ul style="list-style-type: none"> • Antileprosy • Antigaleous • Ringworm
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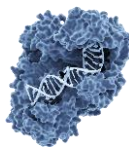
<p><i>Cannabis Sativa</i></p>	<ul style="list-style-type: none">• North America (Port Royal, Canada)• South America (Chile)<ul style="list-style-type: none">• Europe• Western Asia• Africa (Morocco, Egypt)	<p>Psychomotor disturbances :</p> <ul style="list-style-type: none">• Ataxia• Drowsiness• Lethargy• Tachycardia• Dilated pupils• Central nervous system depression (coma)	<p>Cannabis and cannabinoid medications, as modulators of CSE, may offer new treatment options for cancer pain caregivers.</p>	<ul style="list-style-type: none">• Cannabinoids<ul style="list-style-type: none">- Δ 9-THC- Cannabidiol (CBD)- Cannabichromene (CBC)- Cannabigerol (CBG)<ul style="list-style-type: none">• Delta-9- tetrahydrocannabinol (d-9-THC)	<ul style="list-style-type: none">• Sedative• Anaesthetic
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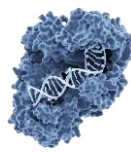
<p><i>Chenopodium ambrosioides</i></p>	<ul style="list-style-type: none">• Temperate and warm subtropical areas of Europe• United States (Missouri, New England, Eastern United States)• Africa• Central and South America and Mexico	<ul style="list-style-type: none">• Hepatic and/or renal toxicity• Lung congestion• Stomach metaplasia• Necrosis of the renal tubules• Irritant to kidneys, liver and the mucous membrane of the gastrointestinal tract	<p>Significant cytotoxic activity for Tumor cell lines :</p> <ul style="list-style-type: none">• K562 (myeloid leukemia),• RAJI (Burkitt's lymphoma)• NALM6 B15 (acute B lymphocytic leukemia)	<ul style="list-style-type: none">• Essential oil :<ul style="list-style-type: none">- α-Terpinene- P-cymène- Le limonène- γ-terpinène- L'ascaridole• Flavonoids:<ul style="list-style-type: none">- Quercétine- Kaempférol- Quercetin 3-O-rutinoside- Kaempferol dirhamnoside-O-pentoside	<ul style="list-style-type: none">• Vermifuge• Gastro-intestinal affections• Typhoid• Dysentery (child, adult)• Galactogen• Oral abscesses• Ulcerations• Purulent wounds
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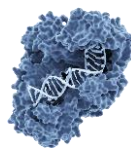
<p><i>Conium Maculatum</i></p>	<ul style="list-style-type: none">• Europe• Asia• North Africa (Morocco)• North America• Australia• New Zealand• South American countries	<ul style="list-style-type: none">• Muscle weakness<ul style="list-style-type: none">• Ataxia• Staggering• Tremors• Effects intensified• Total paralysis of legs and arms• Loss of ability to chew• Loss of sensation• Pupils became fixed• Pulse slow and weak• Rapid breathing• Abundant salivation• Frequent urination<ul style="list-style-type: none">• Nausea• Convulsions• Drop in body temperature death (paralysis of respiration and asphyxia) until death	<ul style="list-style-type: none">• Reduced cell viability and colony<ul style="list-style-type: none">• Formation of HeLa cell capacity• Reduced cell proliferation<ul style="list-style-type: none">• Caused ROS accumulation in HeLa cells• Depolarized potentials of the mitochondrial membrane• Induced morphological changes in HeLa cells<ul style="list-style-type: none">• Modulates the expression of different proteins	<ul style="list-style-type: none">• Alkaloids<ul style="list-style-type: none">- Coniine- Nmethylconiine- Conhydrin- Pseudoconhydrin- Gamma-coniceine• Flavonoids• Coumarins• Polyacetylenes• Essential oils<ul style="list-style-type: none">• Vitamins• Non-volatile oils	<ul style="list-style-type: none">• Neuralgias• Sciatica• Rheumatism• Against stings and venomous bites• Abortifacient
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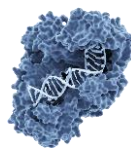
<i>Lawsonia inermis</i>	<ul style="list-style-type: none"> • South-West Asia (India) • North Africa (Morocco) 	<ul style="list-style-type: none"> • Weak sensitizing agent <ul style="list-style-type: none"> • Paralysis • Total body collapse <ul style="list-style-type: none"> • Weakness • Sluggishness • Loss of appetite • Haemotoxicity • Oxidative stress (rats) 	<p>Significant cytotoxic activity against :</p> <ul style="list-style-type: none"> • MCF-7 and HepG2 <ul style="list-style-type: none"> • Hela • HCT-116 • HT29 cell line • 5-FU • Increased the life span (mice) • Bearing Dalton's lymphoma ascites tumors. 	<ul style="list-style-type: none"> • 2-Hydroxy-1, 4-naphthoquinone • 1,4dihydroxynaphthalene <ul style="list-style-type: none"> • 1,4- naphthoquinone • 1,2 dihydroxyglucoyloxynaphthalene <ul style="list-style-type: none"> • 2-hydroxy1,4-diglucoxyloxynaphthalene • Flavonoids (luteolins, apigenin, and their glycosides) • Coumarins (esculetin, fraxetin, scopletin) <ul style="list-style-type: none"> • Steroids (βsitosterol) • Naphthoquinone • Isoplumbagin • TriterpenoidsHennadiol <ul style="list-style-type: none"> • Aliphatics (3-methylnonacosan-1-ol) • Essential oil : <ul style="list-style-type: none"> - Ionones (β-ionones) - Ethyl hexadecanoate - (E)-methyl cinnamate - Methyl linoleate - Isocarophyllene - (E)-β- ionone - Neryl acetone - α-terpineol 	<ul style="list-style-type: none"> • Ulcers • Diarrhea • Kidney stones <ul style="list-style-type: none"> • Eczema • Mycosis • Boils • Abscesses • Panic attacks • Chapped skin • An astringent • Antiseptic and healer : (bruises, wounds and umbilical) • Sprains , dislocations, stretched ligaments and fractures
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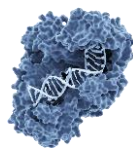
<p><i>Nerium oleander</i></p>	<ul style="list-style-type: none">• Africa (Morocco Mauritania)• Arabian Peninsula<ul style="list-style-type: none">• Asia (China)• United States• Europe (Portugal)• Mediterranean region and the Sahara	<ul style="list-style-type: none">• Cardiotoxic• Poisoning	<p>Significant cytotoxic activity :</p> <ul style="list-style-type: none">• Inhibition of Na⁺ / K⁺<ul style="list-style-type: none">- ATPase bound to the plasma membrane• Antitumor activity<ul style="list-style-type: none">• Cell viability	<ul style="list-style-type: none">• Essential oil :<ul style="list-style-type: none">- Nerin- Digitoxigenin- Amorphane- 1,8-cineole- α-pinene- Calarene- Limonene- β-Phellandrene- Terpinene-4-ol<ul style="list-style-type: none">- Sabinene- Isoledene- 3-Carene- Humulene- β-Pinene- Cymen-8-ol glycosides : (neriine, oleandrin alkaloid...est)	<ul style="list-style-type: none">• Headaches• Head colds• Uterus diseases• Rheumatism• Articular and joint pains
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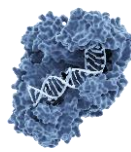
<i>Nigella sativa</i>	<ul style="list-style-type: none"> • Asia : <ul style="list-style-type: none"> - Syria - Turkey - Saudi Arabia - Pakistan - India • Mediterranean region • Morocco 	<ul style="list-style-type: none"> • Hypoactivity • Respiratory difficulties • Liver, kidney and heart damages • Alteration of some blood parameters (animals) • Inhibits certain pro-coagulant prostaglandins <ul style="list-style-type: none"> • Allergies • Abortifacient 	<ul style="list-style-type: none"> • Significant cytotoxic activity against p53, NF-κB, PPARγ, STAT3, MAPK and PI3K / AKT transduction signals <ul style="list-style-type: none"> • Antiproliferative • Pro apoptotic • Antioxidant • Anti-mutagenic • Anti-angiogenic • Anti-metastatic effects 	<ul style="list-style-type: none"> • Lipids • Terpene derivatives <ul style="list-style-type: none"> • Flavonoids • Alkaloids • Saponins • Fixed oil (eicosadienoic acid) <ul style="list-style-type: none"> • Essential oil : <ul style="list-style-type: none"> - P-cymene - Carvacrol - T-anethole - 4-terpineol - Longifolin 	<p>uses the powder of freshly ground seeds in inhalations for :</p> <ul style="list-style-type: none"> • Colds • Flu • Migraines • Sinusitis • Pulmonary affections • Asthma also prescribed as an ointment against : <ul style="list-style-type: none"> • Veins • Corns • Vitiligo • Scabs • Hemiplegia • facial paralysis • Limb paralysis • Dental pain • Galactogenic • Warming, antinausea <ul style="list-style-type: none"> • Vermifuge • Emmenagogue, • Antipyretic • Antidote of poisons and venoms
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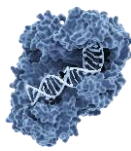
<p><i>Marrubium Vulgare</i></p>	<ul style="list-style-type: none"> •North Africa (Morocco) • Europe • Asia (Japan) • Southern Africa • America • Australia • New Zealand • 	<ul style="list-style-type: none"> • Dermal lesions • Reduction in ovarian follicular function and ovulation (rats) 	<p>Significant cytotoxic activity against :</p> <ul style="list-style-type: none"> • U87 cell • T98G GBM cell • LN229 cell • HeLa cell line • mMelanoma (B16) cell • glioma (U251) cell cervical cancer line 	<p>Essential oil :</p> <ul style="list-style-type: none"> - γ-Eudesmol • germacrene - D Citronelly formate - β -Citronellol - Geranyl tiglate - Geranyl formate - Lendene - Cyclononasiloxane- Octadecamethyl - 1, 8-Cineole - Geraniol - Neryl acetate - γ- Cadinene - BCubebene • Alkaloids • Triterpene (ursolic acid) • Steroids • alkanes 	<ul style="list-style-type: none"> • Antidiabetic • Antityphoic • aAntidiarrheal • Febrifuge • Diuretic • Emmenagogue • Anti-icteric • Expectorant • Tonic and stimulant • Against abscesses • Cicatrization
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<p><i>Myristica fragrans</i></p>	<ul style="list-style-type: none">• China (Guangdong, Yunnan)• Taiwan• Indonesia• Malaysia• Caribbean (Grenada)• India (Kerala)• Sri Lanka• South America	<ul style="list-style-type: none">• Weak pulse• Hypothermia• Delirium• Dizziness• Nausea• Teratogenic effects• DNA adducts in the livers (adult and fetal mice)	<ul style="list-style-type: none">• Suppression the growth of human lymphoid leukemia cells, also colon cancer and lung cancer cells in vitro.• Potential cancer chemopreventive agent.• Protection of bone marrow genotoxicity and induced carcinogenesis.• Chemopreventive effects in mouse skin	<ul style="list-style-type: none">• Essential oil :<ul style="list-style-type: none">- Sabinene- Terpinen-4-ol- Safrole- αpinene- β-phellandrene- g-terpinene- Limonene- Dihydrodiisoeugenol seed core• Five phenyl propanoids nutmeg mass• Dihydroguaiaretic acid	<ul style="list-style-type: none">• Bad digestion• Sexual impotence<ul style="list-style-type: none">• Asthenia• Cold• Gynecological affections of the woman
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<i>Peganum Harmala</i>	<ul style="list-style-type: none"> • Middle East • North Africa • Southern Europe 	<p>Toxic effects :</p> <ul style="list-style-type: none"> • Increased respiration <ul style="list-style-type: none"> • Pulse rate • Clonic muscle spasms (cattle) <ul style="list-style-type: none"> • Digestive and nervous syndromes (animals) • Reduced the number of live pups • Increased the number of resorptions <ul style="list-style-type: none"> • Hallucinations • Neurosensory syndromes • Bradycardia • Gastrointestinal disturbances (nausea and vomiting) 	<ul style="list-style-type: none"> • Significant decrease in cancer cell viability • Inhibit the viability of breast cancer cell line (MCF7) • Significant reduce the cell viability 	<ul style="list-style-type: none"> • Flavonoids • Anthraquinones • β-carboline alkaloids : <ul style="list-style-type: none"> - Harmalin - Harmine - Harmalol - Harmol - Tetrahydroharmine <ul style="list-style-type: none"> - Peganin - Isopreganine - Dipeganin - Deoxypeganin <ul style="list-style-type: none"> - Pegamine - Harmalidine - Vasicine - Vasicinone • Anthraquinones (peganone1 and peganone2) 	<ul style="list-style-type: none"> • Against icterus • Colds hemorrhoids <ul style="list-style-type: none"> • Heart disease • Female sterility • Uterine diseases • Treat infant toxicosis and childhood diarrhea. <ul style="list-style-type: none"> • Abortifacient
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<p><i>Taxus baccata</i></p>	<ul style="list-style-type: none">• Central and southern Europe<ul style="list-style-type: none">• Asia (Anatolia, Caucasus and Elburz)• Northwestern Africa (Morocco)• Mediterranean region	<ul style="list-style-type: none">• Liver disorders• Myocardial infarction• Hepatocellular necrosis	<ul style="list-style-type: none">• Inhibition of cell proliferation• Treatment of :<ul style="list-style-type: none">- Metastatic ovarian carcinoma- Metastatic breast cancer- Non-small cell lung.	<ul style="list-style-type: none">• Essential oil :<ul style="list-style-type: none">- Aliphatic alcohols (oct-1-en-3-ol and (3 Z) -hex-3-en-1-ol)- Terpenes (monoterpenes and sesquiterpenes)- Aliphatic hydrocarbons and aliphatic aldehydes<ul style="list-style-type: none">- Myrtenol- 4'-Odemethylsuchilactone<ul style="list-style-type: none">• Flavonoid :<ul style="list-style-type: none">- Sciadopytisin- Ginkgetin- Kayaflavone- Taxoids- Lignans	<ul style="list-style-type: none">• Rheumatism• Diabetes treatment• Used as abortifacient.
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