

**Dr. Duke's Phytochemical and Ethnobotanical Databases**

**List of Plants for Juvabional**

Plants with Activity Synergy	Chemical Count	Total PPM
Abelmoschus moschatus	3	
Abelmoschus esculentus	1	
Abies balsamea	1	
Abutilon theophrasti	1	
Acacia senegal	1	
Acacia nilotica	3	
Acacia farnesiana	5	
Acacia decurrens	1	
Acacia catechu	2	
Achillea millefolium	4	
Achyranthes bidentata	2	
Achyranthes aspera	1	
Acinos suaveolens	1	
Aconitum napellus	1	
Acorus calamus	2	128384.0
Actinidia chinensis	1	
Adiantum capillus-veneris	1	
Adonis vernalis	1	
Aesculus hippocastanum	2	
Agastache rugosa	1	
Agathosma betulina	2	
Ageratum conyzoides	4	
Agrimonia eupatoria	4	
Ailanthus altissima	1	
Ajuga reptans	3	
Ajuga remota	4	
Ajuga iva	2	

Plants with Activity Synergy	Chemical Count	Total PPM
Ajuga chamaepitys	2	
Albizia lebbek	1	
Aleurites fordii	1	
Alisma plantago-aquatica	1	
Allium schoenoprasum	1	18.0
Allium sativum var. sativum	3	400.0
Allium cepa	3	96200.0
Allium ampeloprasum	1	
Alnus glutinosa	1	
Aloe vera	1	
Aloysia citrodora	2	14.0
Alpinia officinarum	2	800.0
Alpinia galanga	1	24000.0
Althaea officinalis	3	
Amaranthus spinosus	1	
Amaranthus sp.	1	
Ammi visnaga	3	
Ammi majus	1	
Anastatica hierochuntica	2	
Anemone pulsatilla	1	
Anethum graveolens	5	
Angelica archangelica	3	
Annona squamosa	2	
Anogeissus latifolia	2	
Apium graveolens	6	340.0
Arachis hypogaea	4	24.0
Araucaria bidwillii	2	

Plants with Activity Synergy	Chemical Count	Total PPM
Arbutus unedo	1	
Arctium lappa	1	
Arctostaphylos uva-ursi	2	
Ardisia japonica	1	
Armoracia rusticana	1	
Arnica montana	1	
Artemisia vulgaris	2	
Artemisia dracunculoides	6	1120.0
Artemisia capillaris	1	
Artemisia annua	2	
Artemisia absinthium	2	
Artemisia abrotanum	2	
Artocarpus altilis	1	
Asimina triloba	1	
Aspalathus linearis	2	
Asparagus officinalis	2	
Astragalus membranaceus	4	
Atractylodes lancea	1	
Avena sativa	1	620.0
Azadirachta indica	2	2000.0
Ballota nigra	1	
Barosma betulina	1	
Basella alba	1	
Berberis vulgaris	3	
Bertholletia excelsa	1	
Beta vulgaris	2	
Bixa orellana	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Boehmeria nivea	1	
Borago officinalis	1	
Boronia megastigma	1	
Brassica oleracea var. sabellica l.	1	100.0
Brassica oleracea var. italica	3	
Brassica oleracea var. gemmifera	2	90.0
Brassica oleracea var. capitata l.	2	200.0
Brassica oleracea var. botrytis l.	3	12.0
Brassica oleracea	2	40.76
Brassica nigra	1	
Brassica napus var. napobrassica	1	
Caesalpinia pulcherrima	3	
Calamintha nepeta	1	
Calendula officinalis	3	
Camellia sinensis	6	22780.0
Camptotheca acuminata	1	
Cananga odorata	2	
Canavalia ensiformis	1	
Capparis spinosa	3	
Capsella bursa-pastoris	1	
Capsicum frutescens	3	126.0
Capsicum annuum	3	
Carum carvi	1	
Castanea sativa	2	
Catharanthus roseus	1	
Cedrus deodora	1	
Ceiba pentandra	1	

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Centaurea cyanus</i>	2	
<i>Centaurea calcitrapa</i>	2	
<i>Centella asiatica</i>	2	
<i>Ceratonia siliqua</i>	1	
<i>Chamaemelum nobile</i>	2	
<i>Cichorium intybus</i>	4	
<i>Cichorium endivia</i>	1	
<i>Cinchona pubescens</i>	1	
<i>Cinnamomum verum</i>	3	20344.0
<i>Cinnamomum camphora</i>	2	
<i>Cinnamomum aromaticum</i>	3	
<i>Cistus ladaniferus</i>	1	2100.0
<i>Citrullus lanatus</i>	1	
<i>Citrullus colocynthis</i>	1	
<i>Citrus spp</i>	1	
<i>Citrus sinensis</i>	5	30200.0
<i>Citrus reticulata</i>	1	
<i>Citrus paradisi</i>	4	
<i>Citrus limon</i>	4	4.0
<i>Citrus aurantium</i>	2	
<i>Clematis vitalba</i>	1	
<i>Cnicus benedictus</i>	1	
<i>Coffea arabica</i>	2	180000.0
<i>Commiphora wightii</i>	2	
<i>Commiphora myrrha</i>	1	
<i>Conium maculatum</i>	1	
<i>Consolida ajacis</i>	1	

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Convallaria majalis</i>	2	
<i>Corchorus olitorius</i>	1	
<i>Coriandrum sativum</i>	3	640.0
<i>Coriaria thymifolia</i>	2	
<i>Coriaria myrtifolia</i>	2	
<i>Cornus mas</i>	3	
<i>Cornus florida</i>	1	
<i>Corylus avellana</i>	1	
<i>Crataegus rhipidophylla</i>	3	
<i>Crataegus pentagyna</i>	2	
<i>Crataegus monogyna</i>	3	
<i>Crataegus laevigata</i>	3	
<i>Crataegus cuneata</i>	2	
<i>Crocus sativus</i>	1	
<i>Croton lechleri</i>	1	
<i>Croton eluteria</i>	1	
<i>Cucumis sativus</i>	1	
<i>Cucumis melo</i>	1	
<i>Cucurbita pepo</i>	1	
<i>Cuminum cyminum</i>	2	1668.0
<i>Curcuma longa</i>	2	
<i>Cyamopsis tetragonoloba</i>	3	
<i>Cydonia oblonga</i>	1	
<i>Cymbopogon winterianus</i>	2	550.0
<i>Cymbopogon parkeri</i>	2	2498.0
<i>Cymbopogon nardus</i>	1	72.0
<i>Cymbopogon martinii</i>	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Cymbopogon flexuosus	1	
Cymbopogon citratus	4	
Cynara cardunculus	3	
Cytisus scoparius	1	
Daemonorops draco	1	
Datura stramonium	2	
Daucus carota	5	15220.0
Dianthus caryophyllus	1	
Dictamnus albus	1	
Digitalis purpurea	1	
Dionaea muscipula	1	
Diospyros virginiana	1	
Dipsacus fullonum	1	
Dipteryx odorata	1	70000.0
Dodonaea viscosa	2	
Drimys winteri	2	
Duchesnea indica	1	
Echinacea spp	4	
Echinacea purpurea	2	
Echinacea pallida	1	
Echinacea angustifolia	3	
Elaeagnus angustifolia	3	
Eleutherococcus senticosus	2	
Elsholtzia blanda	1	
Ephedra sinica	2	
Ephedra gerardiana	1	
Equisetum arvense	2	

Plants with Activity Synergy	Chemical Count	Total PPM
Eriobotrya japonica	2	
Eriodictyon californicum	1	12000.0
Erythroxyllum novogranatense	1	10000.0
Erythroxyllum coca	3	16200.0
Eschscholzia californica	1	55000.0
Eucalyptus macrorrhuncha	1	
Eucalyptus globulus	5	
Eucalyptus citriodora	3	
Eucalyptus brassiana	1	
Eucommia ulmoides	2	
Eupatorium triplinerve	1	
Eupatorium perfoliatum	2	
Euphorbia tirucalli	1	
Euphorbia pulcherrima	1	
Euphorbia lathyris	1	
Euphorbia hirta	2	
Euphrasia officinalis	2	
Fagopyrum esculentum	3	468900.0
Fallopia japonica	1	
Ferula alliacea	1	
Ficus carica	3	15300.0
Filipendula ulmaria	3	
Firmiana simplex	1	
Foeniculum vulgare	4	
Forsythia suspensa	2	2000.0
Fragaria spp	3	124760.0
Galega officinalis	2	



Plants with Activity Synergy	Chemical Count	Total PPM
Galium odoratum	1	26000.0
Geranium thunbergii	3	
Ginkgo biloba	2	
Glechoma hederacea	2	
Glycine max	4	
Glycyrrhiza uralensis	2	
Glycyrrhiza glabra	2	2.0
Gossypium sp	2	
Guazuma tomentosa	1	
Haematoxylum campechianum	1	
Hamamelis virginiana	1	
Harpagophytum procumbens	1	
Hedera helix	2	
Heimia salicifolia	1	
Helianthus annuus	7	57220.0
Helichrysum angustifolium	1	
Hemidesmus indicus	1	
Hibiscus sabdariffa	2	
Hibiscus rosa-sinensis	1	
Hierochloe odorata	1	
Hippophae rhamnoides	1	
Holarrhena pubescens	1	
Hordeum vulgare	2	
Houttuynia cordata	4	
Humulus lupulus	4	4034.0
Hyacinthus orientalis	1	9.2
Hydrangea paniculata	1	82000.0

Plants with Activity Synergy	Chemical Count	Total PPM
Hydrangea arborescens	2	
Hydrastis canadensis	1	
Hyoscyamus niger	3	
Hypericum perforatum	3	
Hyptis verticillata	1	
Hyssopus officinalis	1	2134.0
Ilex paraguariensis	2	
Illicium verum	1	
Inula helenium	1	
Ipomoea batatas	2	
Iris x germanica	1	
Isatis tinctoria	1	
Jasminum officinale	2	20.0
Juglans regia	5	
Juglans nigra	3	
Juniperus virginiana	1	
Juniperus sabina	1	
Juniperus communis	4	
Justicia pectoralis	1	
Kalanchoe spathulata	1	
Kalanchoe pinnata	1	
Lactuca sativa	1	
Lagerstroemia indica	1	
Lantana camara	2	
Laurus nobilis	3	2670.0
Lavandula x intermedia	2	
Lavandula latifolia	2	62.0

Plants with Activity Synergy	Chemical Count	Total PPM
Lavandula angustifolia	1	3000.0
Ledum palustre	1	
Leonurus cardiaca	2	
Leptospermum scoparium	1	
Levisticum officinale	2	
Ligustrum lucidum	2	
Ligustrum japonicum	2	
Linum usitatissimum	1	
Lippia dulcis	1	
Liquidambar styraciflua	1	
Lonicera japonica	2	
Ludwigia perennis	1	
Ludwigia adscendens	1	
Lycium chinense	2	
Lycopersicon esculentum	5	48036.0
Lycopus virginicus	2	
Lycopus europeus	3	2400.0
Lythrum salicaria	2	
Maclura pomifera	2	
Magnolia officinalis	1	
Magnolia kobus	3	1000.0
Magnolia denudata	2	
Mahonia repens	1	
Malus domestica	3	526.0
Mangifera indica	1	
Maranta arundinacea	2	
Marrubium vulgare	2	

Plants with Activity Synergy	Chemical Count	Total PPM
Matricaria recutita	4	
Medicago sativa	2	
Melaleuca viridiflora	1	
Melaleuca bracteata	1	
Melia azedarach	3	
Melilotus officinalis	2	4000.0
Melissa officinalis	2	
Mentha x piperita	3	0.4
Mentha spicata	2	
Mentha pulegium	1	640.0
Mentha longifolia	1	
Menyanthes trifoliata	3	
Mercurialis annua	1	
Micromeria myrtifolia	1	
Micromeria fruticosa	1	
Micromeria congesta	1	
Morinda citrifolia	2	
Moringa oleifera	1	
Morus alba	6	120020.0
Musa x paradisiaca	2	
Myrciaria dubia	1	
Myristica fragrans	2	640.0
Myroxylon balsamum	3	8000.0
Myrtus communis	2	
Narcissus tazetta	1	
Nasturtium officinale	1	
Nelumbo nucifera	2	

Plants with Activity Synergy	Chemical Count	Total PPM
Nerium oleander	2	
Nicotiana tabacum	5	20000.0
Nicotiana glauca	1	42000.0
Nigella sativa	1	
Ocimum tenuiflorum	1	
Ocimum suave	1	
Ocimum sp	1	
Ocimum sanctum	1	
Ocimum kilimandscharicum	1	
Ocimum gratissimum	1	
Ocimum canum	1	
Ocimum basilicum	5	17150.0
Oenanthe javanica	1	
Oenothera biennis	2	414000.0
Olea europaea	2	
Ononis spinosa	1	
Opuntia ficus-indica	1	
Origanum vulgare	5	
Origanum sipyleum	1	
Origanum onites	2	
Origanum minutiflorum	1	
Origanum majorana	3	3152.0
Pachira aquatica	1	
Paeonia suffruticosa	1	
Paeonia moutan	1	
Paeonia lactiflora	1	
Panax notoginseng	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Paris quadrifolia	2	
Passiflora incarnata	2	
Pastinaca sativa	2	
Perilla frutescens	1	
Persea americana	2	
Petasites hybridus	1	
Petiveria alliacea	1	
Petroselinum crispum	5	67950.0
Peucedanum ostruthium	3	30000.0
Peumus boldus	3	5325.0
Phaseolus vulgaris	1	
Phaseolus aborigineus	1	
Phoenix dactylifera	4	
Phyllanthus niruri	2	
Phyllanthus emblica	3	
Phyllanthus amarus	2	
Physalis peruviana	2	
Pimenta racemosa	1	40940.0
Pimenta dioica	1	92348.0
Pimpinella anisum	4	
Pinus sylvestris	2	
Pinus strobus	1	
Pinus palustris	1	
Pinus mugo	1	
Pinus elliotii	1	
Piper nigrum	3	
Piper betel	1	35700.0

Plants with Activity Synergy	Chemical Count	Total PPM
Piper auritum	1	
Pistacia lentiscus	1	
Plantago major	1	
Pluchea carolinensis	1	
Plumeria acutifolia	3	
Podophyllum pleianthum	2	
Podophyllum peltatum	2	124000.0
Podophyllum hexandrum	2	
Pogostemon cablin	1	
Polianthes tuberosa	2	
Polygonum hydropiperoides	1	
Polygonum hydropiper	3	60000.0
Polygonum aviculare	2	
Polypodium vulgare	1	
Polypodium aureum	2	
Populus tacamahacca	1	
Prosopis juliflora	1	
Prunella vulgaris	2	
Prunus spinosa	2	
Prunus serotina	1	
Prunus persica	2	
Prunus laurocerasus	1	
Prunus dulcis	2	
Prunus domestica	2	
Prunus cerasus	5	
Prunus armeniaca	3	35400.0
Psidium guajava	2	16000.0

Plants with Activity Synergy	Chemical Count	Total PPM
Psidium cattleianum	2	
Psoralea corylifolia	2	
Pteridium aquilinum	3	
Pterocarpus marsupium	1	
Ptychopetalum olacoides	2	
Pueraria montana	2	
Punica granatum	4	
Pycnanthemum setosum	1	186.0
Pyrus communis	2	56.0
Quercus velutina	1	
Quercus rubra	1	
Quercus robur	1	
Quercus infectoria	2	
Quercus alba	1	
Ravensara aromatica	1	
Rheum rhabarbarum	1	12000.0
Rheum officinale	1	
Rhododendron ponticum	1	
Rhododendron dauricum	1	
Rhus toxicodendron	1	
Rhus coriaria	2	
Ribes uva-crispa	1	
Ribes nigrum	3	
Ricinus communis	4	4000.0
Robinia pseudoacacia	2	
Rosa spp	1	
Rosa multiflora	1	



Plants with Activity Synergy	Chemical Count	Total PPM
Rosa gallica	2	8.0
Rosa damascena	2	30000.0
Rosmarinus officinalis	2	
Rubus phoenicolasius	2	
Rubus idaeus	4	
Rubus fruticosus	1	
Rumex crispus	2	
Rumex acetosella	1	10600.0
Rumex acetosa	2	25600.0
Ruscus aculeatus	1	800.0
Ruta graveolens	2	40000.0
Salix alba	2	
Salvia officinalis	3	
Sambucus simpsonii	1	
Sambucus nigra	3	18400.0
Sambucus canadensis	2	73000.0
Sanguisorba officinalis	1	
Sanguisorba minor	1	
Santalum album	1	
Sassafras albidum	1	
Satureja montana	1	
Schinus terebinthifolius	1	
Schinus molle	1	
Scopolia carniolica	2	
Selenicereus grandiflorus	1	
Senna occidentalis	1	
Senna obtusifolia	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Serenoa repens	2	
Sesamum indicum	2	
Sideritis scardica	1	
Sideritis mugronensis	1	
Silybum marianum	2	
Smilax china	1	
Solanum tuberosum	3	4021.0
Solanum torvum	1	
Solanum melongena	1	
Solidago virgaurea	3	
Solidago gigantea	2	
Sophora japonica	2	868000.0
Sorbus aucubaria	3	
Spartium junceum	1	
Spinacia oleracea	4	378.0
Spondias pinnata	1	
Stachys officinalis	1	
Stachytarpheta jamaicensis	1	
Stellaria media	2	
Stevia rebaudiana	2	
Strychnos nux-vomica	1	
Symphytum officinale	1	
Syringa vulgaris	2	
Syzygium aromaticum	3	461400.0
Tabebuia impetiginosa	1	
Tagetes patula	3	420.0
Tagetes minuta	2	6000.0

Plants with Activity Synergy	Chemical Count	Total PPM
Tagetes lucida	1	
Tagetes erecta	1	124.0
Tanacetum vulgare	2	
Taraxacum officinale	2	
Taxus baccata	1	
Tecoma stans	1	160.0
Tephrosia purpurea	1	
Terminalia pallida	1	
Terminalia ivorensis	2	
Terminalia chebula	3	
Terminalia catappa	3	
Terminalia bellirica	1	
Terminalia arjuna	1	
Tetraclinis articulata	1	126000.0
Teucrium scorodonia	1	
Teucrium scordium	3	
Teucrium montanum	1	
Teucrium chamaedrys	1	400.0
Teucrium botrys	1	
Theobroma cacao	4	
Thespesia populnea	1	
Thevetia peruviana	1	
Thymus vulgaris	3	
Thymus funkii	1	
Thymus cilicicus	1	
Thymus capitatus	2	
Tilia sp.	3	

Plants with Activity Synergy	Chemical Count	Total PPM
Tribulus terrestris	2	
Tridax procumbens	1	
Trifolium pratense	4	
Trigonella foenum-graecum	3	
Trilisa odoratissima	1	
Triticum aestivum	2	10.0
Tropaeolum majus	1	
Tussilago farfara	2	7200.0
Umbellularia californica	1	80.0
Uncaria tomentosa	2	
Uncaria guianensis	2	
Uncaria catechu	2	
Urginea maritima	1	
Urtica dioica	4	
Vaccinium vitis-idaea	1	
Vaccinium myrtillus	4	
Vaccinium macrocarpon	3	500.0
Vaccinium corymbosum	6	6000.12
Valeriana officinalis	2	
Vanilla planifolia	2	
Verbascum thapsus	1	
Viburnum prunifolium	1	
Viburnum opulus	2	
Vigna radiata	2	
Viola tricolor	2	460000.0
Viola odorata	3	40714.0
Vitis vinifera	6	

Plants with Activity Synergy	Chemical Count	Total PPM
Withania somnifera	3	
Xylopi aethiopica	1	
Zanthoxylum clava-herculis	1	
Zea mays	5	
Zingiber officinale	4	200.0
Zizyphus jujuba	2	36000.0