

## Species Summaries

The following summary tables describe the species and patent activity involving the species. This data falls into three categories:

- a) Of South African origin - Patents where a named species has been identified as having been obtained from South Africa.
- b) With South African distribution - Patents where there is no reference to South Africa but distribution data suggests that the species may have originated from South Africa (Distribution 1).
- c) For the sake of completeness we include a final section on 'Other Species' that appear in patent documents and are of potential interest. Patents in this group either target the organism (i.e. with a pesticide) or make a reference to the organism in the course of the application.

In reading these tables, note that the number of documents refers to the number of documents retained during research on the origin of species of relevance to South Africa. It does not refer to the wider patent landscape for the species consisting of the total number of documents making reference to the species, or its components, in the global patent system. This point is particularly important in the case of species such as *Hoodia gordonii*.


Species may appear in patent documents in this list for a variety of reasons:

- 1. Because they are a focus of the invention;
- 2. Because they are incorporated into the claims of the invention;
- 3. Because they are a target of the invention (i.e. pathogens or pests)
- 4. Because a reference to a species, including in very limited cases a literature reference, indicates that the species is of potential interest for economic development and merits further investigation.


Species that fall into the first two categories will be included in the summary section. Species that are in the last two categories will be found in the Other Species section.

This report focuses on identifying species that are of potential interest for economic development and conservation based on their appearance in patent data. The data in this summary section should not be used to draw conclusions about misappropriation or biopiracy.


### Of South African origin

Species name: <i>Acacia mearnsii</i>	Kingdom: Plantae	
Brief description of species: Originates from Australia. A tree which has become one of the most invasive species across the globe.		
Distribution: Cosmopolitan	No of documents: 1	
WO2009126976A		
Detail: An extract of the bark of <i>Acacia mearnsii</i> (blackwattle) is prepared. The extract may be used as an anti-oxidant in animal feeds and in the raw materials of feeds, as well as in the prevention of the oxidation and depletion of vitamins therein and in vivo.		

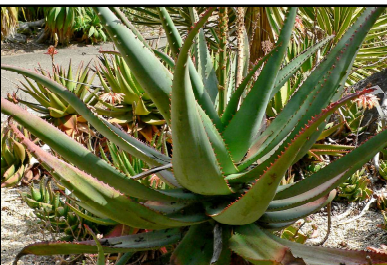
### Of South African origin

Species name: <i>Agapanthus orientalis</i>		Kingdom: Plantae	
Brief description of species: Lily of the Nile. Species boundaries are not clear in the genus, and in spite of having been intensively studied, the number of species recognized by different authorities varies from 6 to 10.			
Distribution: Uncertain		No of documents: 1	
US2010050307P1 (US Plant Patent)			
Detail: New variant 'PMN06' is a distinctive variety of <i>Agapanthus orientalis</i> , which is characterized by its distinctive violet-blue and white bicolored flowers.			


### Of South African origin

Species name: <i>Agathosma betulina</i>	Kingdom: Plantae	
Brief description of species: Agathosma betulina is a flowering plant in the family Rutaceae, native to the lower elevation mountains of western South Africa, where it occurs near streams in fynbos habitats.		
Distribution: Endemic	No of documents: 1	
WO2006090239A1		
Detail: A treatment pad for soothing skin around the eye. The pad contains extracts of plants including A. betulina		


### Of South African origin

Species name: <i>Aloe africana</i>	Kingdom: Plantae	
Brief description of species: Known as the African aloe, it is a large species of succulent plant. Restricted to the southeastern part of South Africa, in the Eastern Cape		
Distribution: Endemic		
EP0328775A1 EP0619117A2 EP0857485A2 EP0965345A2 EP1731158A1 EP1731527A1 EP1795200A1 EP1808175A1 EP1882472A1 EP1882477A1 EP1927360A1 EP1927361A1 EP1930014A1 EP1930341A1 US2002031481A1 US2003170325A1 US2004115138A1 US2006134238A1 US2007032463A1 US2007141341A1 US2007196435A1 US2008044500A1 US2008125379A1 US2008255077A1 US2009054354A1 US2009069254A1 US2009075913A1 US2009093450A1 US2009131388A1 US2009312275A1 US2010035851A1 US2010240632A1 US2010286104A1 US4598069A US4735935A US4801582A US4917890A US4959214A US4966892A US5650157A US5756141A US6375992B1 US6893648B2 US7329421B2 US7531520B2 US7534770B2 US7674784B2 US7754704B2 US7812012B2 US7846905B2 WO1987000052A1 WO1991016914A1 WO1997034504A1 WO2001062265A1 WO2002085236A2 WO2007075449A2		
Detail: EP0328775A1 provides processes for extracting active chemical substances of aloe. US2009054354A1 provides a food additive to improve pancreatic function using plant extracts from aloe. WO1991016914A1 provides a deodorizing preparation for oils and pharmaceuticals.		


### Of South African origin

Species name: <i>Aloe barbadensis</i>	Kingdom: Plantae	
Brief description of species: Synonym of Aloe vera, a succulent plant species that probably originated in northern Africa. The species does not have any naturally occurring populations.		
Distribution: Cosmopolitan	No of documents: 1	
US2005019384A1		
Detail: Aspects of the invention concern transdermal delivery systems comprised of an ethoxylated lipid. Some formulations are used to deliver pharmaceuticals, therapeutic compounds, and cosmetic agents of various molecular weights.		


### Of South African origin

Species name: <i>Aloe petricola</i>	Kingdom: Plantae	
Brief description of species: Aloe petricola belongs to the Aloe genus in the Xanthorrhoeaceae family, and is commonly known as a stone aloe. Like other aloes, this species is used medicinally.		
Distribution: Endemic	No of documents: 8	
EP1888021B1 WO2006125619A1 WO2010029005A2 WO2010029007A2 WO2010066723A1 WO2010072576A2 WO2010072577A2 WO2010076122A2		
Detail: EP1888021B1, WO2010029007A2, WO2010072577A2:The inventions relates to hair care products containing agents using aloe extracts for dyeing and/or permanently changing the shape of keratin fibers (hair).		

### With South African distribution

Species name: <i>Aloe vanbalenii</i>	Kingdom: Plantae	
Brief description of species: Aloe with trailing leaves that only leave the ground once enough stem has formed. Like other aloes, this species is used medicinally.		
Distribution: Cosmopolitan	No of documents: 2	
US5824659A WO1998009635A1		
Detail: US5824659A, WO1998009635A1:The inventions relates generally to protection of the immune system. More particularly, it concerns preventing or correcting immunological damage to skin exposed to ultraviolet irradiation, using aloe extracts.		

### With South African distribution


Species name: <i>Anisodonteia elegans</i>		Kingdom: Plantae	
Brief description of species: Anisodonteia is a genus in the tribe Malveae in the family Malvaceae. It comprises twenty-one species native to South Africa.			
Distribution: Endemic		No of documents: 3	
USPP16301P2 USPP18820P2 USPP21393P2 (US Plant Patents)			
Detail: These documents refer to new cultivars of the species grown in South Africa and Australia.			

### With South African distribution


Species name: <i>Arxiozyma telluris</i>	Kingdom: Fungi	No Image Available
Brief description of species: Thermophillic yeast.		
Distribution: Cosmopolitan	No of documents: 2	
EP0790302A1 US5948665A		
Detail: EP0790302A1, US5948665A: A hexokinase of excellent stability in solution whether in the presence or the absence of glucose, and the present enzyme is a novel substance derived from the cultured of thermophilic yeast.		



### With South African distribution

Species name: <i>Asclepias hastata</i>	Kingdom: Plantae	
Brief description of species: Synonym for Cynanchum bungei, aka milkweed.		
Distribution: Cosmopolitan	No of documents: 2	
EP1915997A1 US2009104295A1		
Detail: These documents are by the same applicant for a herbal hair growth tonic using processed Cynanchum bungei.		

### Of South African origin

Species name: <i>Aspalathus linearis</i>	Kingdom: Plantae	
Brief description of species: Rooibos is a broom-like member of the legume family of plants growing in South Africa's fynbos. Used as a bevarage and for cosmetics and medical uses.		
Distribution: Cosmopolitan	No of documents: 14	
WO2010000580A WO2010000579A WO2010000564A WO2008110551A WO2007057310A WO2005041854A US2010222423A1 US2009104298A1 US2009004331A1 US2008247974A1 US2004156798A1 US7094432B2 EP2133088A2 EP1680067B1		
Detail: WO2010000580A: The use of rooibos or rooibos extract in combination with at least one prebiotic for improving skin or hair health. US2009104298A1: The use of an extract of fermented and/or unfermented rooibos leaves and/or stems for reducing or slowing the loss of the natural or artificial colour of hair. US7094432B2: A cosmetic composition comprising Rooibus tea extract in combination with at least one protective agent which is a skin protective agent.		

**Of South African origin**

Species name: <i>Aspergillus carneus</i>	Kingdom: Plantae	No Image Available
Brief description of species: An aerobic mold.		
Distribution: Cosmopolitan	No of documents: 1	
WO2009122362A		
Detail: The invention describes a new <i>Aspergillus carneus</i> fungus strain, designated <i>Aspergillus carneus</i> (van Tiegham) Blockwitz (CBS 116150). The fungus strain produces a number of exogenous fibrolytic enzymes which are capable of increasing cell wall degradation, and thereby digestibility, of an animal feed.		


**Of South African origin**

Species name: <i>Bacillus halodurans</i>	Kingdom: Bacteria	No Image Available
Brief description of species: Alkiphillic bacteria, rod shaped gram-positive and motile, genetically adapted to alkaline environments		
Distribution: Uncertain	No of documents: 1	
US2008003237A1		
Detail: The invention provides flagellin-based fusion proteins (FBFP) useful for a variety of purposes, in bioremediation to remove metal ions from a liquid.		


**With South African distribution**

Species name: <i>Bacterium xylinum</i>	Kingdom: Bacteria	No Image Available
Brief description of species: Some acetic acid bacteria, a notable one being Acetobacter xylinum, are known to synthesize cellulose, something normally done only by plants.		
Distribution: Cosmopolitan	No of documents: 5	
EP1647540A1 EP1647540B1 US2006096588A1 US7674381B2 WO1998043489A1		
Detail: WO1998043489A1: A kombucha based health product. Kombucha is a composition which may contain bacterium xylinum.		

### With South African distribution

Name: <i>Belonogaster petiolata</i>			
Species name: <i>Belonogaster petiolata</i>	Kingdom: Animalia		
Brief description of species: Wasp species, listed in rDNA encoding list. Wide distribution.			
Distribution: Cosmopolitan		No of documents: 2	
EP1130094A2 EP1396543A2			
Detail: Wasp DNA sequence in long list of homologues for primers for synthesizing rDNA.			

### With South African distribution

Indian Ocean-African distribution:		
Species name: <i>Bifurcaria brassicaeformis</i>	Kingdom: Plantae	
Brief description of species: Accepted name: <i>Brassicophycus brassicaeformis</i> (WORMS). Extraction of pharma and cosmetic products		
Distribution: Uncertain	No of documents: 2	
WO2006077433A1 US2008260662A1		
Detail: WO2006077433A1 US2008260662A1: A sunscreen product using algae derived compounds. <i>B. brassicaeformis</i> listed as a source of fucoxanthin.		

### With South African distribution


Species name: <i>Blepharis acuminata</i>	Kingdom: Plantae	
Brief description of species: Metal accumulating plant. Metal recovery from soils.		
Distribution: Cosmopolitan	No of documents: 5	
EP1133576B1 US7268273B2 US2002174451A1 US2008134364A1 WO2000028093A1		
Detail: EP1133576B1:Relates to recovering metals, such as nickel and cobalt, by phytomining or phytoextracting soils rich in metals wherein the desired metal is selectively accumulated in hyperaccumulator plants by adjusting the soil pH.		




### With South African distribution

Species name: <i>Botryoaescus synnaedendrus</i>	Kingdom: Fungi	No Image Available
Brief description of species: Airborne microbial fungus.		
Distribution: Uncertain		No of documents: 12
EP0197474A2 EP0779366A1 EP0939134A1 EP1288213A1 US5629200A1 US5726047A US5811293A US7094594B2 US2003143701A1 US2005080277A1 US2006246557A1 US4898822A		
Detail: In all patents this is listed in claims for the preparation of various chemicals and derivatives.		


### Of South African origin

Species name: <i>Bulbine frutescens</i>	Kingdom: Plantae	
Brief description of species: A flowering plant used for treatment of skin problems such as burns. Also used as an infusion. Cultivated ornamental plant.		
Distribution: Cosmopolitan	No of documents: 1	
US2010062085A1		
Detail: A skin treatment for scars and as a cosmetic for aging skin using extracts from this species.		

### With South African distribution

Species name: <i>Bulbine natalensis</i>	Kingdom: Plantae	
Brief description of species: Bulbine natalensis is a herb found originally in South Africa that has become very popular with bodybuilders looking to gain muscle mass and as a testosterone booster.		
Distribution: Uncertain	No of documents: 1	
US6159494		
Detail: Treatment for healing post operative scar tissue.		


**With South African distribution**

Species name: <i>Callitris arborea</i>	Kingdom: Plantae	
Brief description of species: Synonym for Widdringtonia wallichii, listed as species producing taxol.		
Distribution: Uncertain	No of documents: 5	
EP1364005B1 US2005158860A1 US2005164162A1 WO2002059290A2 WO2003062419A1		
Detail: Patents for evolving cells which produce taxol.		


**With South African distribution**

North-Central African distribution		
Species name: <i>Candida xylopsoci</i>	Kingdom: Fungi	No Image Available
Brief description of species: Yeast strain in long list for genetic modification to use in a process.		
Distribution: Uncertain	No of documents: 2	
US2010291653A1 US2010285545A1		
Detail: The biotransformation of Candida to generate oligomers and polymers.		


**Of South African origin**

Species name: <i>Carpobrotus edulis</i>	Kingdom: Plantae	
Brief description of species: Carpobrotus edulis is native to South Africa. It is also known as Hottentot Fig. Naturalised in many places across the globe.		
Distribution: Cosmopolitan	No of documents: 1	
WO2007144723A2		
Detail: The manufacture of an anti-itch cream from C. edulis.		


**With South African distribution**

Species name: <i>Cephalodiscus gilchristi</i>	Kingdom: Animalia	
Brief description of species: Marine worm, extracts from which are used in treatment of leukemia.		
Distribution: Uncertain	No of documents: 4	
WO2010068877A2 US5583224A US5047532A US4873245A		
Detail: Cephalostatin , derived from the marine worms, is used as tumor inhibitor.		

**Of South African origin**


Species name: <i>Coleonema album</i>	Kingdom: Plantae	
Brief description of species: AKA White Confetti Bush. Grown as ornamental plant.		
Distribution: Endemic	No of documents: 1	
WO2005105124A		
Detail:A pharmaceutical composition for use as an immune stimulant, an antibacterial agent, an antifungal agent or an antiviral agent.		

## With South African distribution


Species name: <i>Combretum cafrum</i>	Kingdom: Plantae	
Brief description of species: Eastern Cape South African Bushwillow tree. Discovered in 1970s. Bark has proved to have anti-cancer properties.		
Distribution: Endemic	No of documents: 138	
EP0276051A2 EP0397336A2 EP1045853B1 EP1263763B1 EP1351911B1 EP1506960A1 EP1559718A1 EP1751128B1 EP2025661A1 EP2042195A1 EP2065358A1 US4940726A US4996237A US5409953A US5569786A US5886025A US5886025A US6593374B2 US6624197B1 US6670344B2 US6773702B2 US6777578B2 US6849656B1 US6855702B2 US6919324B2 US6933316B2 US6943194B1 US7001926B2 US7018987B1 US7037906B1 US7078552B2 US7091240B2 US7105695B2 US7220784B2 US7223747B2 US7279466B2 US7358236B1 US7384925B2 US7429681B2 US7456214B2 US7456289B2 US7507851B2 US7524832B2 US7528165B2 US7547686B2 US7557096B2 US7572778B2 US7659262B2 US7705188B2 US7759527B2 US7786098B2 US7838706B2 US2002055643A1 US2002072507A1 US2002160973A1 US2003149003A1 US2003195244A1 US2003220298A1 US2003220304A1 US2004029838A1 US2004043969A1 US2004044059A1 US2004052761A1 US2004054212A1 US2004067255A1 US2004122083A1 US2004143023A1 US2004152629A1 US2004242696A1 US2005065213A1 US2005065217A1 US2005075516A1 US2005153939A1 US2005176688A1 US2005209310A1 US2005215764A1 US2005240062A1 US2005245489A1 US2005245490A1 US2005249667A1 US2005267108A1 US2005267194A1 US2005272824A1 US2006035868A1 US2006135625A1 US2006142252A1 US2006148801A1 US2006160778A1 US2006165772A1 US2006166942A1 US2006172980A1 US2006194770A1 US2006276440A1 US2006293394A1 US2007073077A1 US2007082872A1 US2007167412A1 US2007185184A1 US2007203217A1 US2007276172A1 US2008045752A1 US2008119649A1 US2008146528A1 US2008214509A1 US2008306027A1 US2009075943A1 US2009170956A1 US2009186857A1 US2009192098A1 US2009258937A1 US2010004403A1 US2010016261A1 US2010129471A1 WO1994005682A1 WO1999034788A1 WO2001019794A2 WO2001068654A2 WO2001081355A1 WO2002022626A1 WO2002049994A2 WO2002050007A2 WO2002056692A1 WO2002102766A2 WO2003024911A1 WO2003035008A2 WO2003040077A1 WO2003059855A1 WO2003086414A1 WO2004009127A1 WO2004052875A1 WO2004099139A1 WO2005007603A2 WO2005113532A1 WO2006074041A2 WO2006138427A2 WO2007035620A2 WO2007086882A2 WO2007110881A1		
Detail: US5569786A: Isolation and study of combretastatin, an anteneoplastic substance with potential lymphocytic leukemia inhibiting properties. US4996237A: Combretastatin A-4, found to have significant anti tumor properties.		




### With South African distribution

Species name: <i>Crassula argyrophylla</i>	Kingdom: Plantae	
Brief description of species: Alternative name: <i>Crassula globularioides</i> subsp. <i>argyrophylla</i> . Succulent perennial herb, often forming clumps or mats. Listed in patent for extraction of metals from metal-rich soils. Metal accumulator.		
Distribution: Endemic	No of documents: 1	
EP1133576B1		
Detail: Method for extracting metals from soils using metal accumulating plants.		


### With South African distribution

Species name: <i>Crassula fascicularis</i>	Kingdom: Plantae	
Brief description of species: Crassula fascicularis is a small branched shrublet that grows several erect stems, topped with clusters of white, cream or light yellow flowers in spring.		
Distribution: Endemic	No of documents: 3	
US2004133941A1 US2003175678A1 WO2002059374A1		
Detail: a method for identifying genes and producing catechin from C.fascicularis.		


### With South African distribution

Species name: <i>Crocasmia fucata</i>	Kingdom: Plantae	
Brief description of species: Crocasmia is a genus in the Iridaceae family from tropical and eastern South Africa. Plants have erect sword shaped leaves and spikes of tubular or funnel shaped orange to red flowers. Extracts from genus can be used as mammalian a-amylase inhibitors.		
Distribution: Cosmopolitan	No of documents: 1	
WO2009049428A1		
Detail: Cited as a natural source of montbretins for use as an alpha amylase inhibitor.		

### With South African distribution

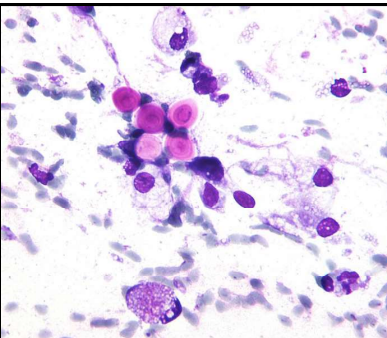
Species name: <i>Crocasmia masonorum</i>	Kingdom: Plantae	
Brief description of species: Crocasmia is a genus in the Iridaceae family from tropical and eastern South Africa. Plants have erect sword shaped leaves and spikes of tubular or funnel shaped orange to red flowers. Extracts from genus can be used as mammalian $\alpha$ -amylase inhibitors.		
Distribution: Cosmopolitan	No of documents: 4	
WO2009049428A1 USPP17165P2 USPP15587P2 USPP14885P2. Note that USPP documents are US Plant Patents.		
Detail: WO2009049428A1: Cited as a natural source of montbretins for use as an $\alpha$ amylase inhibitor. USPP17165P2 USPP15587P2 USPP14885P2: Patents for new cultivars outside of South Africa.		

### With South African distribution

Species name: <i>Cryptocarya latifolia</i>	Kingdom: Plantae	
Brief description of species: Common Name, Broad-Leaved Quince. An evergreen tree with a dense crown. Extracts for control of tuberculosis.		
Distribution: Endemic	No of documents: 3	
US6835755B1 WO2001000554A2 WO2001023342A1		
Detail: Extracts from C. latifolia tested against M. tuberculosis and found to be an inhibitor.		




### With South African distribution

Species name: <i>Cryptococcus amyloletus</i>	Kingdom: Fungi		
Brief description of species: Cryptococcus is a genus of fungus. These fungi grow in culture as yeasts. The sexual forms or teleomorphs of Cryptococcus species are filamentous fungi in the genus Filobasidiella. Polypeptide encoded by yeast cell gene used in process for obtaining an optically active epoxide.			
Distribution: Uncertain			No of documents: 12
US2007275448A1 US2007281339A1 US2008171359A1 US2008199912A1 US2008213833A1 US2008286832A1 US2009275077A1 WO2005100578A2 WO2005100587A2 WO2006109198A2 WO2007010403A2 WO2007069079A2			
Detail: US2007275448A1, WO2005100578A2:Yeast strains, and polypeptides encoded by genes of such yeast strains, that have enantiospecific meso-epoxide hydrolase activity. US2008171359A1 WO2007010403A2: Recombinant yeasts for synthesizing epoxide hydrolases			


### Of South African origin

Species name: <i>Cryptosporidium parvum</i>	Kingdom: Protista	No Image Available
Brief description of species: Cryptosporidium parvum is one of several protozoal species that cause cryptosporidiosis.		
Distribution: Cosmopolitan	No of documents: 1	
WO2001077293A2		
Detail: A method for inhibiting the attachment of C. parvum to a host cell.		


### With South African distribution

Species name: <i>Cyclopia species</i>	Kingdom: Plantae	
Brief description of species: Cyclopia genistoides, Cyclopia intermedia, Cyclopia sessiliflora, Cyclopia subternata. The honeybush, a plant similar to Rooibos.		
Distribution: Endemic	No of documents: 28	
EP1702675A1 EP1893293B1 EP2253226A1 US7576213B2 US2005255179A1 US2006134265A1 US2006275241A1 US2007031462A1 US2007077308A1 US2008014305A1 US2008102132A2 US2010119463A1 US2011021397A1 WO2003092413A1 WO2004000422A1 WO2005058476A1 WO2006131159A1 WO2008110552A2 WO2009077850A1 WO2010000577A2 WO2009125017A2 WO2010000578A2 WO2010056232A1 WO2010056233A1 WO2010056675A2 WO2010146142A2 WO2008110552A US2005196511A1		
Detail: WO2010000578A; WO2010000577A: For use with prebiotics for skin and hair treatment. WO2008110552A: An anti-diabetic extract of honeybush.		


### With South African distribution

Species name: <i>Delosperma basuticum</i>	Kingdom: Plantae	
Brief description of species: Delosperma is a genus of around 100 species of succulent plants. Ice plant. patent for new cultivar for horticulture.		
Distribution: Endemic		No of documents: 1
USPP15793P3 (US Plant Patent)		
Detail: A new cultivar of the species grown in the USA.		


### With South African distribution

Species name: <i>Dodonaea thunbergiana</i>	Kingdom: Plantae	
Brief description of species: Synonym for Dodonaea viscosa (hop bush) cosmopolitan tropical plant.		
Distribution: Cosmopolitan	No of documents: 1	
WO2005076748A2		
Detail: Patent for anti inflammatory pharmaceutical from plant extract.		


### Of South African origin

Species name: <i>Ecklonia maxima</i>	Kingdom: Chromista		
Brief description of species: Sea bamboo, is a species of kelp native to the southern oceans. It is most typically found along the southern Atlantic coast of Africa, from the very south of South Africa north to Namibia. It is harvested for both an agricultural supplement and as food for abalone raised on farms.			
Distribution: Cosmopolitan	No of documents: 1		
US3971848A			
Detail: A composition having lubricating property, which is produced from the phaeophyceae such as sea tangle and ecklonia.			

### With South African distribution

Species name: <i>Ehrharta microlaena</i>	Kingdom: Plantae		
Brief description of species: Ehrharta is a genus of about 25 to 35 species of grass mostly native to Africa, with a few species native to the Mascarene Islands and Indonesia. An isolated nucleic acid molecule which encodes a polypeptide. Various agricultural uses.			
Distribution: Uncertain	No of documents: 1		
WO1998007836A1			
Detail:Purified leucoanthocyanidin reductase polypeptides and methods for obtaining same. Nucleic acid molecule from E. microlaena in process.			


### Of South African origin

Species name: <i>Elephantorrhiza elephantina</i>	Kingdom: Plantae	
Brief description of species: Low growing suffrutex, arising from a massive underground tuberous root.		
Distribution: Cosmopolitan	No of documents: 2	
US2010316748A1 WO2009053857A2		
Detail: Extract of E.elephantina used to treat BPH.		


### With South African distribution

Species name: <i>Enterococcus phoeniculicola</i>	Kingdom: Bacteria	No Image Available
Brief description of species: Novel bacteria identified in 2003. Patents concerning identification of named bacteria and additionally research into pharmaceuticals.		
Distribution: Uncertain	No of documents: 1	
WO2005103294A1		
Detail: WO2005103294A1 A microarray for detecting lactic acid bacteria which includes DNA from named species.		

### Of South African origin


Species name: <i>Eriocephalus africanus</i>	Kingdom: Plantae	
Brief description of species: Eriocephalus africanus is a bushy shrublet indigenous to South Africa. It has a wide distribution in the Western and Eastern Cape, and in Namaqualand.		
Distribution: Endemic	No of documents: 1	
WO2006090239A1		
Detail: A treatment pad for soothing skin around the eye. The pad contains extracts of plants including A. betulina.		

### Of South African origin


Species name: <i>Eriocephalus punctatus</i>	Kingdom: Plantae	
Brief description of species: Eriocephalus africanus is a bushy shrublet also known as Cape Chamomile, it has traditional medical applications. Indigenous to South Africa.		
Distribution: Endemic	No of documents: 1	
WO2006090239A1		
Detail: A treatment pad for soothing skin around the eye. The pad contains extracts of plants including A. betulina.		




### Of South African origin

Species name: <i>Erythrina latissima</i>	Kingdom: Plantae	
Brief description of species: A deciduous tree from southern Africa growing 5 to 8 m tall. It is a member of the Fabaceae and occurs naturally in the Afrotemperate mist-belt.		
Distribution: Cosmopolitan	No of documents: 1	
WO1990009438A1		
Detail: Trypsin Inhibitor DE-3 from the Seeds of <i>Erythrina latissima</i> for a thrombolytic, isolation and pharmaceutical usage.		

### With South African distribution

Species name: <i>Euclea natalensis</i>		Kingdom: Plantae	
Brief description of species: The <i>Euclea natalensis</i> , or Natal Guarri is a small to medium shrub/tree. It occurs predominantly within riverine forest however it can be found in a variety of habitats.			
Distribution: Cosmopolitan		No of documents: 1	
WO2001023342A1 US6835755B1 WO2001000554A2			
Detail: Extracts used medicinally. Research into tuberculosis treatments.			


### With South African distribution

Species name: <i>Eucomis vandermerwei</i>	Kingdom: Plantae	
Brief description of species: Eucomis vandermerwei is a South African plant and a member of the Asparagus family. Grown horticulturally around the world. Patent for new cultivars.		
Distribution: Endemic	No of documents: 2	
USPP17749P3 US2007050872P1 (US Plant Patents)		
Detail: New cultivar of pineapple lily from E. vandermerwei.		

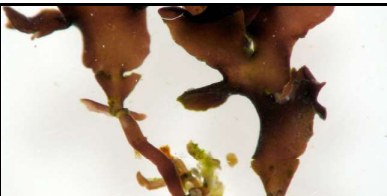
### With South African distribution

Species name: <i>Eupenicillium alutaceum</i>	Kingdom: Fungi	No Image Available
Brief description of species: Penicillium is a genus of ascomycetous fungi of major importance in the natural environment as well as food and drug production.		
Distribution: Uncertain	No of documents: 3	
EP0682116A1 US5036004A US5612208A		
Detail: US5612208A: A source of L-serine. EP0682116A1, US5036004A: A source of L-ascorbate oxidase and gene encoding.		

### With South African distribution

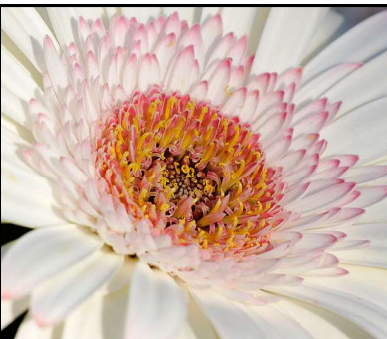
Species name: <i>Gazania rigens leucolaena</i>	Kingdom: Plantae	
Brief description of species: Gazania rigens is a clumping or spreading plant grown for colorful yellow flowers contrasting with the silver foliage.		
Distribution: Uncertain	No of documents: 1	
USPP68250A		
Detail: Patent for a new cultivar of G. rigens.		

### With South African distribution


Species name: <i>Gelidium foliaceum</i>	Kingdom: Plantae	
Brief description of species: A species of marine algae.		
Distribution: Uncertain	No of documents: 1	
US2008226740A1		
Detail:Marine algal extracts comprising marine algal polysaccharides of low degree polymerizatn, and the preparation processes and uses thereof.		




### With South African distribution

Species name: <i>Gerbera lagascae</i>	Kingdom: Plantae		
Brief description of species: Synonym for Gerbera linnaei.. Gerbera is very popular and widely used as a decorative garden plant or as cut flowers. The domesticated cultivars are mostly a result of a cross between Gerbera jamesonii and another South African species Gerbera viridifolia.			
Distribution: Uncertain	No of documents: 2		
EP2011388A1 US2009083875A1			
Detail: No clarity of which species is used in the actual invention.			


### With South African distribution

Species name: <i>Gleditsia africana</i>		Kingdom: Plantae	
Brief description of species: Synonym for Erythrophleum africanum, the African blackwood, it is a legume species in the genus Erythrophleum found in Savannas of tropical Africa. It produces a gum similar to gum arabic. Used in cosmetics and dermatology.			
Distribution: Cosmopolitan		No of documents: 2	
EP2046356B1 WO2008009813A2			
Detail: The invention relates to a novel use of an extract of Gleditsia and/or of triacanthine for the preparation of a cosmetic and/or dermatological composition			

### Of South African origin

Species name: <i>Haliclona tulearensis</i>	Kingdom: Animalia	
Brief description of species: Haliclona sp., common names Blue sponges or blue finger sponges, is a species of sponge found throughout the Indian ocean and is a source of unique alkaloids.		
Distribution: Cosmopolitan	No of documents: 2	
WO2000020411A US6635656B1		
Detail:A new N-containing metabolite named halitulon with cytotoxic activity, which in turn has led us to a new class of active compounds.		

### Of South African origin

Species name: <i>Haliotis midae</i>	Kingdom: Animalia	
Brief description of species: South African abalone, one of several sea snails endemic to South Africa.		
Distribution: Endemic	No of documents: 1	
WO2009109359A		
Detail: Relates to a protein or glycoprotein extractable from <i>Haliotis midae</i> and its use as an agent able to prevent the symptoms of allergic disorders.		


### With South African distribution

North South African distribution:		
Species name: <i>Hansenula lynferdii</i>	Kingdom: Fungi	No Image Available
Brief description of species: A yeast referred to as means of de-sulphurising oil and coal.		
Distribution: Uncertain	No of documents: 1	
US4851350A		
Detail: A means of desulphurising coal and oil in an aqueous state.		


### With South African distribution

Kingdom: Fungi			No Image Available
Species name: <i>Hansenula philodendra</i>			
Brief description of species: A microbial yeast.			
Distribution: Uncertain		No of documents: 7	
EP0017853A2 EP0041650A2 EP0071990A2 US4414334A US7462731B2 US2005272940A1 US4261420A			
Detail: A yeast used in a method of producing a single cell protein material. Also treating an aqueous liquid containing dissolved oxygen to substantially eliminate said dissolved oxygen.			


### Of South African origin

Species name: <i>Harpagophytum procumbens</i>	Kingdom: Plantae	
Brief description of species: Devil's Claw. Has many medical uses particularly anti-inflammatory and analgesic uses.		
Distribution: Cosmopolitan	No of documents: 3	
US2010261663A1 US2008279931A1 US2008138406A1		
Detail: US2010261663A1: Anti-inflammatory composition. US2008279931A1, US2008138406A1 relief composition.		

### Of South African origin

Species name: <i>Helichrysum caespititium</i>	Kingdom: Plantae	
Brief description of species: Extracts used medicinally. Research into tuberculosis treatments.		
Distribution: Cosmopolitan	No of documents: 1	
WO2001023342A		
Detail: Isolation of caespitate from H. caespititium and other species in this genus, for use in tuberculosis treatment.		


### Of South African origin

Species name: <i>Hemachatus haemachatus</i>	Kingdom: Animalae	
Brief description of species: Venomous snake aka rinkhals, similar to cobras.		
Distribution: Endemic	No of documents: 1	
US2009180995A1		
Detail: Venom being used to develop an anti-coagulant.		


### Of South African origin

Species name: <i>HIV Subtype C South African strain</i>	Kingdom: Virales	No Image Available
Brief description of species: Subtype C is the dominant form in Southern Africa, India, and Nepal.		
Distribution: Cosmopolitan	No of documents: 3	
US2007166784A1 EP2266602A2 WO2006050394A2		

### With South African distribution


Species name: <i>Hoodia species</i>		Kingdom: Plantae		
Brief description of species: Hoodia flava and Hoodia dregei are succulents native to the Cape Province in South Africa. They are stem succulents traditionally used by the san people of the Namib desert as an appetite suppressant. Note that this data does not refer to the complete patent portfolio for this species.				
Distribution: Endemic		No of documents: 9		
US2007116840A1    US2008261309A1    US2008261310A1    US2010124578A1 WO2007061873A1    WO2008128842A1    WO2008128847A1    WO2010054469A1 WO2010054469A9				

### Of South African origin


Species name: <i>Hoodia currorii</i>	Kingdom: Plantae	
Brief description of species: Hoodias are succulents native to southern Africa. They are stem succulents traditionally used by the san people of the Namib desert as an appetite suppressant.		
Distribution: Cosmopolitan	No of documents: 1	
WO2006051334A1		
Detail: Use of Hoodia as an appetite suppressant.		




### Of South African origin

Species name: <i>Hoodia gordonii</i>	Kingdom: Plantae	
Brief description of species: Hoodias are succulents native to southern Africa. They are stem succulents traditionally used by the san people of the Namib desert as an appetite suppressant. Note that patent numbers do not refer to the complete portfolio of patents referencing Hoodia gordonii but those referencing South Africa only.		
Distribution: Cosmopolitan	No of documents: 5	
US2009186103A1 US2010009063A1; US2006159773A1; US2006105068A1		
Detail: US2009186103A1: Process for extracting dry plant material. US2010009063A1: List in claim of active substances. US2006159773A1: Herbal health composition. US2006105068A1: Dietary supplement.		


### Of South African origin

Species name: <i>Hoodia species</i>	Kingdom: Plantae	
Brief description of species: Hoodias are succulents native to southern Africa. They are stem succulents traditionally used by the San people of the Namib desert and promoted as an appetite suppressant.		
Distribution: Uncertain	No of documents: 5	
US2010247581A1 US2010098783A1 WO2009071425A1 WO2008022875A1 WO2006079056A1		

### With South African distribution

Plant South American distribution		
Species name: <i>Hypoxis latifolia</i>	Kingdom: Plantae	
Brief description of species: Hypoxis is a genus of plant belonging to the Hypoxidaceae family. The seeds are needed to identify many species. Extract used for treatment of cancer and viral infections.		
Distribution: Uncertain	No of documents: 4	
EP0092226A2 EP0130829A2 EP0587396A1 US5609874A		
Detail: Source of hypoxoside in treatments for cancer and viral infection.		

**With South African distribution**

Species name: <i>Hypoxis rooperii</i>	Kingdom: Plantae	
Brief description of species: Hypoxis is a genus of plant belonging to the Hypoxidaceae family.		
Distribution: Uncertain	No of documents: 2	
US5569649A WO1995034296A1		
Detail: Source of hypoxoside for use in anti inflammatory treatments.		

**Of South African origin**

Species name: <i>Jaspis digonoxea</i>	Kingdom: Animalia	No Image Available
Brief description of species: A marine sponge.		
Distribution: Cosmopolitan	No of documents: 1	
EP0687673A1		
Detail: Extraction from sponge, used as an anti tumor treatment.		

**Of South African origin**


Species name: <i>JSRV retrovirus</i>	Kingdom: Virales	No Image Available
Brief description of species: Jaagsiekte sheep retrovirus (JSRV) is a betaretrovirus which is the causative agent of a contagious lung cancer in sheep called Jaagsiekte.		
Distribution: Cosmopolitan	No of documents: 1	
WO2001004266A1		
Detail: Use of JSVR in gene therapy.		




**With South African distribution**

Species name: <i>Kluyveromyces delphensis</i>	Kingdom: Fungi	No Image Available
Brief description of species: Kluyveromyces is a genus of ascomycetous yeasts in the family Saccharomycetaceae.		
Distribution: Cosmopolitan	No of documents: 3	
US6770470B2 US2003008377A1 WO2002008385A1		
Detail: Use in treatment of waste water to remove TMAH.		


**Of South African origin**

of South African origin		
Species name: <i>Lippia javanica</i>	Kingdom: Plantae	
Brief description of species: Lippia is a type of verbena which grows on open velt and on forest margins		
Distribution: Cosmopolitan	No of documents: 2	
US2008193387A1 WO2006090239A1		
Detail: Use in an insecticide containing 30% Lippia oil.		


**With South African distribution**

Species name: <i>Lithops salicola</i>	Kingdom: Plantae	
Brief description of species: Lithops salicola is a species of plant in the Aizoaceae family. Patent for methods of mixing large numbers of heterologous genes.		
Distribution: Cosmopolitan	No of documents: 2	
US2006252156A1 WO2004016791A1		
Detail: Used in a process for mixing genetic material.		

### With South African distribution

Species name: <i>Lobostemon trigonus</i>	Kingdom: Plantae	
Brief description of species: Patent is for a phytoceutical formulation used to treat HIV/ AIDS and/or immune related diseases using extracts from this South African plant. Endemic to Eastern and Western Capes.		
Distribution: Endemic	No of documents: 3	
US2007104728A1 US2008089946A1 WO2007059441A2		
Detail: Used as an ingredient for phytoceutical compositions.		

### Of South African origin

Species name: <i>Monsonia angustifolia</i>	Kingdom: Plantae	
Brief description of species: A widespread annual herb which grows in woodland and grassland.		
Distribution: Cosmopolitan	No of documents: 2	
WO2007138531A US2009202662A		
Detail: Used in a composition for the treatment of erectile dysfunction and libido.		

### With South African distribution

Species name: <i>Myxozyma vanderwaltii</i>	Kingdom: Fungi	No Image Available
Brief description of species: A non-fermenting yeast microorganism.		
Distribution: Uncertain		No of documents: 3
US2009226991A1 WO2009086423A2 WO2010075504A2		
Detail: A method for producing isobutanol using a variety of yeast species during the process. M vanderwaltii listed in claims as usable species.		