

The abundance of alkaloids-containing species and its therapeutic investigation

Supplementary information

Supplementary Table 1: Top 25 species listed in GBIF based on biodiversity occurrences. Identified alkaloids are extracted from Dictionary of Natural Products (DNP) and medicinal/food uses are provided by PFAF Plants for a future database 2020 about specific species.

Species	Occurrences	Identified Alkaloids	Selected medicinal and food uses
<i>Triticum aestivum</i> L.	858198	5	Food uses; antipyretic, sedative, antihidrotic, improve female fertility
<i>Trifolium repens</i> L.	815131	2	Treatment of coughs, colds, fevers and leucorrhoea
<i>Achillea millefolium</i> L.	814224	8	Tonic, anti-inflammatory, anti-spasmodic, diaphoretic
<i>Hedera helix</i> L.	603279	1	Antibacterial, emetic, vasodilator
<i>Corylus avellana</i> L.	600108	3	Food use; astringent, diaphoretic, febrifuge, nutritive and odontalgic
<i>Fagus sylvatica</i> L.	586202	2	antacid, antipyretic, antiseptic, antitussive, expectorant, odontalgic
<i>Pinus sylvestris</i> L.	583687	1	antiseptic, diuretic and expectorant
<i>Calystegia sepium</i> (L.) R.Br.	581166	3	demulcent, diuretic, febrifuge, poultice and strongly purgative
<i>Galium aparine</i> L.	522214	3	Diuretic, antiphlogistic, aperient, diaphoretic, diuretic, febrifuge
<i>Daucus carota</i> L.	511657	3	Food; anthelmintic, carminative, deobstruent, diuretic, galactogogue, ophthalmic, stimulant
<i>Lolium perenne</i> L.	510788	7	Diarrhoea, haemorrhages and malaria
<i>Sambucus nigra</i> L.	495020	6	diaphoretic, diuretic, expectorant and haemostatic
<i>Picea abies</i> (L.)H.Karst.	466427	6	antibiotic, antiseptic, balsamic, expectorant, sedative
<i>Equisetum arvense</i> L.	444940	2	anodyne, antihemorrhagic, antiseptic, astringent, carminative, diaphoretic,

			diuretic, galactagogue, haemostatic and vulnerary
<i>Phalaris arundinacea</i> L.	426049	4	None
<i>Rosmarinus officinalis</i> L.	414732	1	Antiseptic, anti-inflammatory, antioxidant
<i>Hordeum vulgare</i> L.	404700	9	Food use; demulcent, expectorant, galactofuge, lenitive and stomachic
<i>Vaccinium myrtillus</i> L.	399725	2	astringent, diuretic, tonic and an antiseptic for the urinary tract
<i>Pteridium aquilinum</i> L.	397816	1	antiemetic, antiseptic, appetizer and tonic
<i>Rumex obtusifolius</i> L.	392169	1	treatment of jaundice, whooping cough, boils and bleeding
<i>Capsella bursa-pastoris</i> L.	371251	2	antiscorbutic, astringent, diuretic, emmenagogue, haemostatic, hypotensive, oxytocic, stimulant, vasoconstrictor, vasodilator and vulnerary
<i>Oryza sativa</i> L.	368796	17	diuretic, reduces lactation, improves digestion and controls sweating
<i>Vicia sativa</i> L.	362968	15	treat eczema and other skin irritations, and as an antiseptic
<i>Zea mays</i> L.	355260	32	cholagogue, demulcent, diuretic, lithontripic, mildly stimulant and vasodilator
<i>Rubus idaeus</i> L.	346607	1	Food use; anti-inflammatory, astringent, decongestant, ophthalmic, oxytocic and stimulant