We claim,

1. Use of ~~A~~ an ~~bio-enhancing~~ agent selected from intact Boswellia oil (BOIL), Boswellia volatile oil (BVOIL) and Boswellia low polar gum resin extract (BLPRE) or mixtures thereof derived from the gum resin of Boswellia species as a bio-enhancing agent ~~for~~ in enhancing the bioavailability of biological agents.

2. Use of ~~A~~ a composition comprising one or more ingredients selected from intact Boswellia oil (BOIL), Boswellia volatile oil (BVOIL) and Boswellia low polar gum resin extract (BLPRE) or mixtures thereof obtained from Boswellia species in combination with biological agents as a bio-enhancing composition in ~~for~~ enhancing the bioavailability of said biological agents.

3. The use of the bio-enhancing agent or the composition according to claim 1 or 2, wherein the Boswellia gum resin originates from one or more of the Boswellia species selected from *Boswellia serrata, Boswellia carterii*and *Boswellia papyrifera.*

~~4. The bio-enhancing agent or composition according to claim 1 or 2, for bio-enhancing the activity of biological agents in warm blooded animal or mammal in need thereof.~~

~~5~~4. The use of the bio-enhancing agent or the composition according to claim ~~4~~3, wherein said biological agents are selected from biologically active ingredient(s), functional ingredient(s), herbal ingredient(s), dietary supplement(s), nutrient(s), antioxidants), vitamin(s), mineral(s), amino acid(s) and oil(s) or their mixtures.

~~6~~5. The use of the bio-enhancing agent or the composition according to claim ~~5~~4, wherein the said biologically active ingredients are selected from dietetically acceptable active ingredient(s), compound(s), extract(s), fraction(s), phytochemical(s), synthetic drug(s) or their salts or mixtures thereof.

~~7~~6. The use of the bio-enhancing agent or the composition according to claim ~~5~~4, wherein the said functional ingredient comprises one or more ingredients selected

from herbal ingredients, dietary supplements, antioxidants, vitamins, minerals, amino acids, fatty acids, essential oils, fish oils, enzymes, glucosamine, chondroitin and probiotics or their salts or mixtures.

87. The use of the bio-enhancing agent or the composition according to claim 6-5 or 76, wherein said biologically active ingredient(s) and functional ingredient(s) is/are obtained from plant(s), animal(s), microorganism(s), by synthesis or by semi-synthesis for enhancing the bioavailability.

98. The use of the bio-enhancing agent or the composition according to claims 5-4 or 76, wherein the herbal ingredient comprises one or more ingredients selected from extracts/fractions/phytochemicals and their salts derived from *Withania somnifera, Bacopa monniera, Boswellia species, Curcuma species, Centella asiatica, Sphaeranthus indicus, Garcinia mangostana, Annona squamosa, Holoptelia integrifolia, Piper betel, Dolichos biflorus, Moringa oleifera and Murraya koenigii* or mixtures thereof.

109. The use of the bio-enhancing agent or the composition according to claim 98, wherein the extracts/fractions phytochemicals derived from Boswellia species include extracts or fractions standardized to one or more boswellic acids selected from α-boswellic acid, β-boswellic acid, 3-acetyl-α-boswellic acid, 3-acetyl-β-boswellic acid, 3-acetyl-11-keto-α-boswellic acid and 3-acetyl-11-keto-β-boswellic acid or mixtures thereof.

1110. The use of the bio-enhancing agent or the composition according to claim 98, wherein the extracts/fractions/phytochemicals derived from Boswellia species include extracts or fractions standardized to 3-acetyl-11-keto-β-boswellic acid.

1211. The use of the bio-enhancing agent or the composition according to claim 98, wherein the phytochemicals derived from Boswellia species include boswellic acids selected from α-boswellic acid, β-boswellic acid, 3-acetyl-α-boswellic acid, 3-acetyl-

β-boswellic acid, 3-acetyl-11-keto-α-boswellic acid and 3-acetyl-11-keto-β-boswellic acid or mixtures thereof.

~~13~~12. The use of the bio-enhancing agent or the composition according to claim ~~9~~8, wherein the extracts/fractions/phytochemicals derived from Curcuma species include extracts or fractions standardized to one or more components selected from curcumin, demethoxycurcumin, bisdemethoxycurcumin, monodemethylcurcumin, bisdemethylcurcumin, tetrahydrocurcumin, tetrahydrodemethoxycurcumin, tetrahydrobisdemethoxycurcumin and ar-turmerone or mixtures thereof.

~~14~~13. The use of the bio-enhancing agent or the composition according to claim ~~9~~8, wherein the Curcuma species derived extracts/fractions are particularly standardized to curcumin.

~~15~~14. The use of the bio-enhancing agent or the composition according to claim ~~9~~8, wherein the phytochemicals derived from Curcuma species include curcumin, demethoxycurcumin, bisdemethoxycurcumin, monodemethylcurcumin, bisdemethylcurcumin, tetrahydrocurcumin, tetrahydrodemethoxycurcumin, tetrahydrobisdemethoxycurcumin and ar-turmerone or mixtures thereof.

~~16~~15. The use of the bio-enhancing agent or the composition according to claims ~~5~~ 4 and ~~7~~6, wherein the antioxidant comprises one or more ingredients selected from vitamin a, vitamin c, vitamin e, alpha-carotene, transbeta-carotene, betacryptoxanthin, lycopene, lutein/zeaxanthin, pine bark bioflavonals complex, germanium, selenium and zinc.

~~17~~16. The use of the bio-enhancing agent or the composition according to claims ~~5~~ 4 and ~~7~~6, wherein the vitamins comprise one or more water soluble vitamins selected from vitamin b1, vitamin b2, niacinamide, vitamin b6, vitamin b12, folic acid and vitamin c; fat-soluble vitamins selected from vitamin a, vitamin d, vitamin e and vitamin k.

~~18~~17. The use of the bio-enhancing agent or the composition according to claims ~~5~~ 4 and ~~7~~6, wherein the minerals comprise one or more selected from calcium, iron, zinc, vanadium, selenium, chromium, iodine, potassium, manganese, copper and magnesium.

~~19~~18. The use of the bio-enhancing agent or the composition according to claims ~~5~~ 4 and ~~7~~6, wherein the amino acids comprise one or more selected from lysine, isoleucine, leucine, threonine, valine, tryptophan, phenylalanine, methionine, l-selenomethionine or mixtures thereof.

~~20~~19. The use of the bio-enhancing agent or the composition according to claims ~~5~~ 4 and ~~7~~6, wherein the oil(s) comprise one or more selected from omega-3 fatty acid, flaxseed oil, fish oils, essential oils and volatile oils.

~~21~~20. The use of the bio-enhancing agent or the composition according to claim 3, wherein the boswellia species that can be used for producing the oil or volatile oil or low polar gum resin extract from the gum resin according to claim 3, are selected from Boswellia ameero, Boswellia bullata, Boswellia dalzielii, Boswellia dioscorides, Boswellia elongata, Boswellia frereana, Boswellia nana, Boswellia neglecta, Boswellia ogadensis, Boswellia pirottae, Boswellia popoviana, Boswellia rivae, Boswellia sacra and Boswellia socotrana.

21. The use of the bio-enhancing agent or the composition according to claim 1 or 2, wherein the biological agents are 3-O-acetyl-11-keto-β-boswellic acid and/or bisdemethylcurcumin.