【CLAIMS】

【Claim 1】

A composition for use in alleviating, preventing or treating an inflammation disease, which comprises an extracellular vesicle derived from *Lactobacillus paracasei* as an active ingredient.

【Claim ~~1~~2】

~~A pharmaceutical composition for preventing or treating an inflammation disease or a cancer, which comprises an extracellular vesicle derived from *Lactobacillus paracasei* as an active ingredient.~~ A composition for use in alleviating, preventing or treating a cancer, which comprises an extracellular vesicle derived from *Lactobacillus paracasei* as an active ingredient.

【Claim ~~2~~3】

The ~~pharmaceutical~~ composition of 1, wherein the inflammation disease is any one selected from the group consisting of an inflammatory enteritis, gastritis, asthma, chronic obstructive pulmonary disease (COPD), rhinitis, atopic dermatitis, alopecia, psoriasis, degenerative arthritis, and rheumatoid arthritis.

【Claim ~~3~~4】

The ~~pharmaceutical~~ composition of ~~1~~2, wherein the cancer is any one selected from the group consisting of a colorectal cancer, gastric cancer, lung cancer, liver cancer, bile duct cancer, pancreatic cancer, breast cancer, ovarian cancer, renal cancer, bladder cancer, and prostate cancer.

~~【Claim 4】~~

~~The pharmaceutical composition of 1, wherein the inflammation disease is a disease mediated by TNF-α or IL-1β.~~

【Claim 5】

The ~~pharmaceutical~~ composition of 1 or 2, wherein the extracellular vesicle has an average diameter of 10 to 300 nm.

【Claim 6】

The ~~pharmaceutical~~ composition of 1 or 2, wherein the extracellular vesicle is secreted naturally or artificially from *Lactobacillus paracasei*.

【Claim 7】

The ~~pharmaceutical~~ composition of 1 or 2, wherein the extracellular vesicle is isolated from a culture solution of *Lactobacillus paracasei*, or a food product cultured by adding *Lactobacillus paracasei*.

~~【Claim 8】~~

~~A food composition for preventing or alleviating an inflammation disease or a cancer, which comprises an extracellular vesicle derived from *Lactobacillus paracasei* as an active ingredient.~~

~~【Claim 9】~~

~~The food composition of 8, wherein the inflammation disease is any one selected from the group consisting of an inflammatory enteritis, gastritis, asthma, chronic obstructive pulmonary disease (COPD), rhinitis, atopic dermatitis, alopecia, psoriasis, degenerative arthritis, and rheumatoid arthritis.~~

~~【Claim 10】~~

~~The food composition of 8, wherein the cancer is any one selected from the group consisting of a colorectal cancer, gastric cancer, lung cancer, liver cancer, bile duct cancer, pancreatic cancer, breast cancer, ovarian cancer, renal cancer, bladder cancer, and prostate cancer.~~

~~【Claim 11】~~

~~The food composition of 8, wherein the inflammation disease is a disease mediated by TNF-α or IL-1β.~~

~~【Claim 12】~~

~~The food composition of 8, wherein the extracellular vesicle is secreted naturally or artificially from *Lactobacillus paracasei*.~~

~~【Claim 13】~~

~~An inhalant composition for preventing or treating an inflammation disease or a cancer, which comprises an extracellular vesicle derived from *Lactobacillus paracasei* as an active ingredient.~~

~~【Claim 14】~~

~~The inhalant composition of 13, wherein the inflammation disease is any one selected from the group consisting of an inflammatory enteritis, gastritis, asthma, chronic obstructive pulmonary disease (COPD), rhinitis, atopic dermatitis, alopecia, psoriasis, degenerative arthritis, and rheumatoid arthritis.~~

~~【Claim 15】~~

~~The inhalant composition of 13, wherein the inflammation disease is a disease mediated by TNF-α or IL-1β.~~

~~【Claim 16】~~

~~The inhalant composition of 13, wherein the cancer is any one selected from the group consisting of a colorectal cancer, gastric cancer, lung cancer, liver cancer, bile duct cancer, pancreatic cancer, breast cancer, ovarian cancer, renal cancer, bladder cancer, and prostate cancer.~~

~~【Claim 17】~~

~~A cosmetic composition for preventing or alleviating an inflammation disease, which comprises an extracellular vesicle derived from *Lactobacillus paracasei* as an active ingredient.~~

~~【Claim 18】~~

~~The cosmetic composition of 17, wherein the inflammation disease is any one selected from the group consisting of atopic dermatitis, alopecia, and psoriasis.~~

~~【Claim 19】~~

~~A method of treating an inflammation disease, the method comprising a step of administering a composition comprising an extracellular vesicle derived from *Lactobacillus paracasei* as an active ingredient to a subject.~~

~~【Claim 20】~~

~~A use of a composition for preventing or treating an inflammation disease, which comprises an extracellular vesicle derived from *Lactobacillus paracasei* as an active ingredient.~~

~~【Claim 21】~~

~~A method of treating a cancer, the method comprising a step of administering a composition comprising an extracellular vesicle derived from *Lactobacillus paracasei* as an active ingredient to a subject.~~

~~【Claim 22】~~

~~A use of a composition for preventing or treating a cancer, which comprises an extracellular vesicle derived from *Lactobacillus paracasei* as an active ingredient.~~

【Claim 8】

The composition of 1 or 2, wherein the composition is a pharmaceutical composition, a food composition, an inhalant composition, or a cosmetic

composition.

【Claim 9】

Use of extracellular vesicle derived from *Lactobacillus paracasei* in the manufacture of a medicament for the alleviation, prevention or treatment of inflammation disease.

【Claim 10】

Use of extracellular vesicle derived from *Lactobacillus paracasei* in the manufacture of a medicament for the alleviation, prevention or treatment of cancer.