clinical signs or diseases. Currently known intestinal barrier function abnormalities and intestinal flora imbalance related diseases include inflammatory bowel disease (IBD), celiac disease (coeliac disease), irritable bowel syndrome, acute pancreatitis, non-alcoholic fatty liver disease (NAFLD), alcoholic cirrhosis, type 1 and type 2 diabetes (diabetes mellitus), obesity, chronic kidney disease, cardiovascular disease, multiple organ failure syndrome (shock, burns and trauma), AIDS, asthma, eczema, psoriasis, autism, depression, anxiety, schizophrenia, bipolar disorder, Alzheimer's disease, Parkinson's disease, multiple sclerosis, amyotrophic lateral sclerosis (ALS), ankylosing spondylitis, fibromyalgia, chronic sleep fragmentation, insomnia, etc.

[0006] However, so far no Chinese herbal medicine has been verified to be used for the treatment of leaky gut related diseases, and thus there is still an urgent need for novel Chinese herbal medicines for the treatment of leaky gut related diseases.

SUMMARY

[0007] The present disclosure provides a composition for modulating intestinal permeability and/or treating and/or preventing leaky gut related diseases, comprising: a Chinese herbal compound material or a Chinese herbal compound extract. The Chinese herbal compound material comprises Ganoderma, red jujube, longan, and lotus seed, and in the Chinese herbal compound material, a weight ratio of Ganoderma, red jujube, longan and lotus seed is 0.1-15:0.6-2:0.6-2:0.6-5. Moreover, the Chinese herbal compound extract comprises Ganoderma extract, red jujube extract, longan extract and lotus seed extract, and a weight ratio of Ganoderma, red jujube, longan and lotus seed as preparation raw materials which are respectively needed to obtain the Ganoderma extract, the red jujube extract, the longan extract and the lotus seed extract contained in the Chinese herbal compound extract is 0.1-15:0.6-2:0.6-2:0.6-5. In one aspect, the present disclosure provides a composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases,

comprising a Chinese herbal compound material or a Chinese herbal compound extract, wherein the Chinese herbal compound material consists of Ganoderma; red jujube; longan, and lotus seed, wherein in the Chinese herbal compound material, a weight ratio of Ganoderma, red jujube, longan and lotus seed is 1:1:1:1 or 3:1:1:1, and wherein the Chinese herbal compound extract consists of Ganoderma extract, red jujube extract, longan extract and lotus seed extract, wherein a weight ratio of Ganoderma, red jujube, longan and lotus seed as preparation raw materials which are respectively needed to obtain the Ganoderma extract, the red jujube extract, the longan extract and the lotus seed extract contained in the Chinese herbal compound extract is 1:1:1:1 or 3:1:1:1, and wherein the leaky gut related diseases comprise inflammatory bowel disease, celiac disease, irritable bowel syndrome, acute pancreatitis, non-alcoholic steatohepatitis, alcoholic cirrhosis, type 1 diabetes, type 2 diabetes, obesity, chronic kidney disease, cardiovascular disease, multiple organ failure syndrome, AIDS, asthma, eczema, psoriasis, autism, depression, anxiety, schizophrenia, bipolar disorder, Alzheimer's disease, Parkinson's disease, multiple sclerosis, amyotrophic lateral sclerosis, ankylosing spondylitis, fibromyalgia, chronic sleep fragmentation or insomnia. In another aspect, the present disclosure provides a use of a composition in the manufacture of a medicament for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases, wherein the composition comprises a Chinese herbal compound material or a Chinese herbal compound extract, wherein the Chinese herbal compound material consists of Ganoderma; red jujube; longan, and lotus seed, and wherein in the Chinese herbal compound material, a weight ratio of Ganoderma, red jujube, longan and lotus seed is 1:1:1:1 or 3:1:1:1, and wherein the Chinese herbal compound extract consists of Ganoderma extract, the red jujube extract, the longan extract and the lotus seed extract, wherein a weight ratio of Ganoderma, red jujube, longan and lotus seed as preparation raw materials which are respectively needed to obtain the Ganoderma extract, the red jujube

extract, the longan extract and the lotus seed extract contained in the Chinese herbal compound extract is 1:1:1:1 or 3:1:1:1, and wherein the leaky gut related diseases comprise inflammatory bowel disease, celiac disease, irritable bowel syndrome, acute pancreatitis, non-alcoholic steatohepatitis, alcoholic cirrhosis, type 1 diabetes, type 2 diabetes, obesity, chronic kidney disease, cardiovascular disease, multiple organ failure syndrome, AIDS, asthma, eczema, psoriasis, autism, depression, anxiety, schizophrenia, bipolar disorder, Alzheimer's disease, Parkinson's disease, multiple sclerosis, amyotrophic lateral sclerosis, ankylosing spondylitis, fibromyalgia, chronic sleep fragmentation or insomnia.

[0008] The present disclosure also provides a method for modulating intestinal

What is claimed is:

1. A composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases, comprising:

a Chinese herbal compound material or a Chinese herbal compound extract,

wherein the Chinese herbal compound material consists of:

Ganoderma;

red jujube;

longan; and

lotus seed,

wherein in the Chinese herbal compound material, a weight ratio of Ganoderma, red jujube, longan and lotus seed is 1:1:1:1 or 3:1:1:1, and

wherein the Chinese herbal compound extract consists of:

Ganoderma extract;

red jujube extract;

longan extract; and

lotus seed extract,

wherein a weight ratio of Ganoderma, red jujube, longan and lotus seed as preparation raw materials which are respectively needed to obtain the Ganoderma extract, the red jujube extract, the longan extract and the lotus seed extract contained in the Chinese herbal compound extract is 1:1:1:1 or 3:1:1:1, and wherein the leaky gut related diseases comprise inflammatory bowel disease, celiac disease, irritable bowel syndrome, acute pancreatitis, non-alcoholic steatohepatitis, alcoholic cirrhosis, type 1 diabetes, type 2 diabetes, obesity, chronic kidney disease, cardiovascular disease, multiple organ failure syndrome, AIDS, asthma, eczema, psoriasis, autism, depression, anxiety, schizophrenia, bipolar disorder,

Alzheimer's disease, Parkinson's disease, multiple sclerosis, amyotrophic lateral sclerosis, ankylosing spondylitis, fibromyalgia, chronic sleep fragmentation or insomnia.

2. The composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases as claimed in claim 1, wherein the Ganoderma comprises *Ganoderma lingzhi*, *Ganoderma sinensis* or *Ganoderma lucidum* .

3. The composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases as claimed in claim 1, wherein the red jujube comprises grey jujube, jixin jujube, winter jujube, big jujube, small jujube or golden silk jujube.

4. The composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases as claimed in claim 1, wherein the longan comprises Fen Ke longan, Hong Ke longan or Qing Ke longan.

5. The composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases as claimed in claim 1, wherein the lotus seed comprises red lotus seed or white lotus seed.

6. The composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases as claimed in claim 1, wherein in the composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related disease, the composition per gram contains 0.2-20 mg of ganoderic acid A.

7. The composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases as claimed in claim 1, further comprising a pharmaceutically acceptable carrier or salt.

8. The composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases as claimed in claim 7, wherein in the composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases, a content of the Chinese herbal compound material or a Chinese herbal compound extract is 10-99.5 wt%.

9. The composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases as claimed in claim 1, wherein the composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases is a pharmaceutical composition or a health care composition.

10. The composition for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases as claimed in claim 9, wherein an oral form of the pharmaceutical composition or health care composition comprises tablets, granules, powders, pellet in capsules, capsules, coated tablets, solutions or instant powders.

11. Use of a composition in the manufacture of a medicament for inhibiting intestinal permeability and/or treating and/or preventing leaky gut related diseases, wherein the composition comprises:

a Chinese herbal compound material or a Chinese herbal compound extract,

wherein the Chinese herbal compound material consists of:

Ganoderma;

red jujube;

longan; and

lotus seed, and

wherein in the Chinese herbal compound material, a weight ratio of Ganoderma, red jujube, longan and lotus seed is 1:1:1:1 or 3:1:1:1, and

wherein the Chinese herbal compound extract consists of:

Ganoderma extract;

red jujube extract;

longan extract; and

lotus seed extract,

wherein a weight ratio of Ganoderma, red jujube, longan and lotus seed as preparation raw materials which are respectively needed to obtain the Ganoderma extract, the red jujube extract, the longan extract and the lotus seed extract contained in the Chinese herbal compound extract is 1:1:1:1 or 3:1:1:1, and

wherein the leaky gut related diseases comprise inflammatory bowel disease, celiac disease, irritable bowel syndrome, acute pancreatitis, non-alcoholic steatohepatitis, alcoholic cirrhosis, type 1 diabetes, type 2 diabetes, obesity, chronic kidney disease, cardiovascular disease, multiple organ failure syndrome, AIDS, asthma, eczema, psoriasis, autism, depression, anxiety, schizophrenia, bipolar disorder, Alzheimer's disease, Parkinson's disease, multiple sclerosis, amyotrophic lateral sclerosis, ankylosing spondylitis, fibromyalgia, chronic sleep fragmentation or insomnia.

12. The use as claimed in claim 11, wherein the composition per gram contains 0.2-20 mg of ganoderic acid A.

13. The use as claimed in claim 11, wherein the composition further comprises a pharmaceutically acceptable carrier or salt.

14. The use as claimed in claim 13, wherein in the composition, a content of the Chinese herbal compound material or a Chinese herbal compound extract is 10-99.5 wt%.

15. The use as claimed in claim 11, wherein the composition is a pharmaceutical composition or a health care composition.