

Claim 1

A repair agent for use in repairing damaged tissue, comprising mesenchymal stem cells cultured in a serum-free medium, wherein the damaged tissue is tissue damage that
5 accompanies chronic renal failure, a chronic kidney disease, cirrhosis, viral hepatitis, alcoholic hepatitis, or non-alcoholic steatohepatitis.

Claim 2

10 The repair agent for use in repairing damaged tissue as set forth in claim 1, wherein the repair agent ~~is intended to suppress~~ suppresses fibrosis of a living tissue.

Claim 3

15 The repair agent for use in repairing damaged tissue as set forth in claim 1, wherein the repair agent ~~is intended to suppress~~ suppresses infiltration of an inflammatory cell.

Claim 4

20 The repair agent for use in repairing damaged tissue as set forth in claim 1, wherein the repair agent ~~is intended to control~~ controls activity of a macrophage.

Claim 5

The repair agent for use in repairing damaged tissue as set forth in any one of claims 1 through 4, wherein the serum-free medium contains an FGF, a PDGF, an EGF, at least one phospholipid, and at least one fatty acid.

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~~Claim 6~~

~~—— The repair agent as set forth in any one of claims 1 through 5, wherein the damaged tissue is tissue damage that accompanies chronic renal failure, a chronic kidney disease, cirrhosis, pulmonary fibrosis, a burn, interstitial pneumonia, drug-induced pneumonia, irradiation pneumonitis, chronic obstructive pulmonary disease, an acute respiratory distress syndrome, cartilage damage, a bone defect, spinal cord damage, periodontal disease, multiple sclerosis, rheumatoid arthritis, systemic lupus erythematosus, Crohn's syndrome, diabetes, arteriosclerosis, myocardial infarction, stroke, Alzheimer's disease, macular degeneration, viral hepatitis, alcoholic hepatitis, non alcoholic steatohepatitis, jawbone reconstruction, cleft palate, a bone replacement material, a bone defect, a bone system disease, a dry eye, a corneal disorder, pharyngitis, arthritis, a cancer, or fibrosis.~~

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~~Claim 7~~ 6

The repair agent for use in repairing damaged tissue
as set forth in any one of claims 1 through ~~6~~5, wherein the
mesenchymal stem cells are mesenchymal stem cells which
have been selected by screening and are non-tumorigenic.

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~~Claim-8~~7

The repair agent for use in repairing damaged tissue
as set forth in any one of claims 1 through ~~7~~6, wherein the
mesenchymal stem cells have been subcultured at least once.

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~~Claim-9~~8

The repair agent for use in repairing damaged tissue
as set forth in claim ~~8~~7, wherein the mesenchymal stem cells
which are being subcultured are detached with use of a cell
detaching agent containing neither a mammal-derived
component nor a microorganism-derived component.

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~~Claim-10~~9

The repair agent for use in repairing damaged tissue
as set forth in any one of claims 1 through ~~9~~8, wherein the
mesenchymal stem cells are cultured with use of a culture
vessel suitable for culture of the mesenchymal stem cells.

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————~~Claim 11~~

~~—— A method for producing a repair agent for damaged tissue,~~

~~—— said method comprising the step of: (a) culturing mesenchymal stem cells in a serum-free medium.~~

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~~—— Claim 12~~

~~—— The method as set forth in claim 11, wherein the serum-free medium contains an FGF, a PDGF, an EGF, at least one phospholipid, and at least one fatty acid.~~

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~~—— Claim 13~~

~~—— The method as set forth in claim 11 or 12, further comprising, after the step (a), the step of: (b) selecting, by screening, mesenchymal stem cells which are non-tumorigenic.~~

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~~—— Claim 14~~

~~—— The method as set forth in any one of claims 11 through 13, wherein the mesenchymal stem cells are subcultured at least once in the step (a).~~

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~~—— Claim 15~~

~~—— The method as set forth in claim 14, wherein the mesenchymal stem cells which are being subcultured are detached with use of a cell detaching agent containing~~

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~~neither a mammal-derived component nor a microorganism-derived component.~~

~~———— Claim 16~~

5 ~~———— The method as set forth in any one of claims 11 through 15, wherein the mesenchymal stem cells are cultured with use of a culture vessel suitable for culture of the mesenchymal stem cells in the step (a).~~

10 ~~Claim 17_10~~

A repair agent for use in repairing damaged tissue, comprising TSG-6,

the damaged tissue being tissue damage that accompanies chronic renal failure,—or a chronic kidney
15 ~~disease, cirrhosis, pulmonary fibrosis, a burn, interstitial pneumonia, drug-induced pneumonia, irradiation pneumonitis, chronic obstructive pulmonary disease, an acute respiratory distress syndrome, cartilage damage, a bone defect, spinal cord damage, periodontal disease,~~
20 ~~multiple sclerosis, rheumatoid arthritis, systemic lupus erythematosus, Crohn's syndrome, diabetes, arteriosclerosis, myocardial infarction, stroke, Alzheimer's disease, macular degeneration, viral hepatitis, alcoholic hepatitis, non-alcoholic steatohepatitis, jawbone reconstruction, cleft palate, a bone replacement material, a~~

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~~bone defect, a bone system disease, a dry eye, a corneal disorder, pharyngitis, arthritis, a cancer, or fibrosis.~~

Claim-~~18~~ 11

5 The repair agent for use in repairing damaged tissue
as set forth in claim-~~17~~ 10, wherein the repair agent is
~~intended to suppress~~ suppresses fibrosis of a living tissue.

Claim-~~19~~ 12

10 The repair agent for use in repairing damaged tissue
as set forth in claim-~~17~~ 10, wherein the repair agent is
~~intended to suppress~~ suppresses infiltration of an
inflammatory cell.