CLAIMS

What is claimed is:

1. A cartilage product comprising a disrupted collagen matrix.
2. The cartilage product of Claim 1, wherein the collagen matrix comprises enzymatic disruptions.
3. The cartilage product of Claim 2, wherein the collagen matrix is collagenase-digested, optionally wherein the collagen matrix is collagenase II-digested.
4. The cartilage product of any of Claims 1-3, wherein the collagen matrix comprises mechanical disruptions.
5. The cartilage product of Claim 4, wherein the mechanical disruptions are partial mechanical disruptions, wherein the collagen matrix is substantially intact.
6. The cartilage product of Claim 5, wherein the mechanical disruptions are selected from: spiral cut, grooves, scores, fenestrations, and pores.
7. The cartilage product of Claim 4, wherein the mechanical disruptions are full mechanical disruptions, optionally wherein the collagen matrix minced.
8. The cartilage product of Claim 4, wherein the mechanical disruptions are of the tissue-removal type.
9. The cartilage product of Claim 4, wherein the mechanical disruptions are of the tissue-non-removal type.
10. The cartilage product of Claim 8 or Claim 9, wherein the mechanical disruptions extend through the entire thickness of the collagen matrix.
11. The cartilage product of Claim 10, wherein the mechanical disruptions are selected from: spiral cut, scores, intersecting scores, radial scores, hoop-cut, and pores.
12. The cartilage product of Claim 8 or Claim 9, wherein the mechanical disruptions extend through less than the entire thickness of the collagen matrix.
13. The cartilage product of Claim 12, wherein the mechanical disruptions are selected from: spiral cut, scores, intersecting-scores, and radial scores.
14. The cartilage product of any of Claims 1-13, wherein the collagen matrix has a thickness of about 0.2 mm to about 2.0 mm.

15. The cartilage product of Claim 14, wherein the collagen matrix has a thickness of about 1 mm to about 1.5 mm.
16. The cartilage product of any of Claims 1-15, wherein the collagen matrix contains viable cells, optionally wherein the viable cells are native to the collagen matrix.
17. The cartilage product of any of Claims 1-15, wherein the collagen matrix is decellularized.
18. The cartilage product of Claim 15, further comprising a layer of bone, optionally wherein the layer of bone is native to the collagen matrix.
19. The cartilage product of Claim 18, wherein the layer of bone has a surface area substantially less than that of the collagen matrix.
20. The cartilage product of Claim 19, wherein the layer of bone is a plug, a shelled plug, or a shelled layer or bone.
21. The cartilage product of any of Claims 1-20, wherein the collagen matrix is a natural human collagen matrix,
22. The cartilage product of Claim 21, wherein the collagen matrix comprises hyaline cartilage.
23. The cartilage product of any of Claims 1-20, wherein the collagen matrix comprises hyaline cartilage.
24. The cartilage product of Claim 23, wherein the hyaline cartilage comprises articular cartilage.
25. The cartilage product of any of Claims 1-16, wherein the collagen matrix comprises viable chondrocytes in an amount of at least any of: about500 cells/mm^2, about 600 cells/mm^2, about 700 cells/mm^2, about 800 cells/mm^2, about 1200 cells/mm^2, about 1500 cells/mm^2, and about 5000 cells/mm^2, optionally wherein the viable chondrocytes are native to the collagen matrix.
26. The cartilage product of any of Claims 1-16, wherein the collagen matrix comprises one or more layers selected from: a tangential layer, a transitional layer, and a radial layer.
27. The cartilage product of Claim 26, wherein the collagen matrix comprises a tangential layer comprising at least any of: about 100 cells/mm^2, about 200 cells/mm^2, and about 1000 cells/mm^2, optionally wherein the viable chondrocytes are native to the collagen matrix.

28. The cartilage product of Claim 26, wherein the collagen matrix comprises a transitional layer comprising at least any of: about 100 cells/mm^2, about 200 cells/mm^2, and about 400 cells/mm^2, optionally wherein the viable chondrocytes are native to the collagen matrix.
29. The cartilage product of Claim 26, wherein the collagen matrix comprises a radial layer comprising at least any of: about 100 cells/mm^2 and about 200 cells/mm^2, optionally wherein the viable chondrocytes are native to the collagen matrix.
30. The cartilage product of any of the preceding claims wherein the collagen matrix is flexible, optionally wherein the collagen matrix has a flexibility such that it can be bend or folded without breaking.
31. The cartilage product of Claim 30, wherein the collagen matrix has a Young's modulus of at least about any of: 0.1 MPa, 0.2 MPa, 0.3 MPa, and 0.4 MPa.
32. A method of treatment comprising administering to a subject in need thereof, a cartilage product of any of Claims 1-31.
33. The method of Claim 32, wherein the cartilage product is administered arthroscopically.
34. The method of Claim 32, wherein administering comprises folding or rolling the cartilage product.
35. The method of Claim 32, wherein the step of administering is performed in conjunction with a microfracture procedure.
36. The cartilage product of any of Claims 25-29, wherein the collagen matrix comprises type II collagen.
37. The cartilage product of Claim 36, wherein the collagen matrix comprises hyaline cartilage.
38. The cartilage product of Claim 37, wherein the collagen matrix is a natural collagen matrix, optionally, wherein the collagen matrix is a human collagen matrix.
39. The cartilage product of any of Claims 25-29, wherein the collagen matrix is a natural collagen matrix, optionally, wherein the collagen matrix is a human collagen matrix.

40. The cartilage product of any of Claims 1-31 or 36-39 further comprising an additive.

CLAIMS

1. A cartilage product comprising a collagen matrix, wherein the collagen matrix comprises a plurality of channels and wherein the collagen matrix contains viable cells native to the collagen matrix.

2. The cartilage product of Claim 1, wherein the plurality of channels are of the tissue-removal type or the tissue-non-removal type.

3. The cartilage product of Claim 2, wherein the plurality of channels extend through the entire thickness of the collagen matrix.

4. The cartilage product of Claim 2, wherein the plurality of channels extend through less than the entire thickness of the collagen matrix.

5. The cartilage product of claim 1, wherein the collagen matrix has a thickness of about 0.2 mm to about 3.0mm, preferably about 1 mm to about 1.5 mm.

6. The cartilage product of claim 1, further comprising a layer of bone, preferably wherein the layer of bone is native to the collagen matrix.

7. The cartilage product of Claim 6, wherein the layer of bone has a surface area substantially less than that of the collagen matrix.

8. The cartilage product of claim 1, wherein the collagen matrix is a human collagen matrix.

9. The cartilage product of Claim 8, wherein the collagen matrix comprises hyaline cartilage.

10. The cartilage product of claim 9, wherein the hyaline cartilage comprises articular cartilage.

11. The cartilage product of any of Claims 1-10, wherein the collagen matrix comprises viable chondrocytes in an amount of at least any of: about500 cells/mm^2, about 600 cells/mm^2, about 700 cells/mm^2, about 800 cells/mm^2, about 1200 cells/mm^2, about 1500 cells/mm^2, and about 5000 cells/mm^2, optionally wherein the viable chondrocytes are native to the collagen matrix.

12. The cartilage product of any of the proceeding claims, wherein the collagen matrix comprises one or more layers selected from: a tangential layer, a transitional layer, and a radial layer.

13. The cartilage product of Claim 12, wherein the collagen matrix comprises a tangential layer comprising at least any of: about 100 cells/mm^2, about 200 cells/mm^2, and about 1000 cells/mm^2.

14. The cartilage product of Claim 12, wherein the collagen matrix comprises a transitional layer comprising at least any of: about 100 cells/mm^2, about 200 cells/mm^2, and about 400 cells/mm^2.

15. The cartilage product of Claim 12, wherein the collagen matrix comprises a radial layer comprising at least any of: about 100 cells/mm^2 and about 200 cells/mm^2.

16. The cartilage product of any of Claims 11-15, wherein the collagen matrix comprises type II collagen.

17. The cartilage product of Claims 1-16, wherein the collagen matrix is a natural collagen matrix.

18. The cartilage product of claim 1, wherein the cartilage product is cryopreserved.

19. The cartilage product of Claim 1, wherein the cartilage product is devoid of subchondral bone or calcified cartilage.

20. The cartilage product of Claim 1, further comprising a cryopreservation medium.

21. The cartilage product of Claim 1, wherein the cartilage product is depleted of immunogenic cells.

22. The cartilage product of Claim 12, wherein the plurality of channels extend substantially perpendicularly to the radial, transitional or tangential layer.