

Claims

1. A biocompatible tissue graft comprising:
an extracellular matrix patch having a peripheral surface; and
at least one fiber stitched into the patch in a reinforcing pattern to mitigate tearing of the graft and/or improve the fixation retention of the graft, the at least one fiber having at least one free end extending beyond the peripheral surface of the extracellular matrix patch for securing the patch to a host tissue.
2. The tissue graft of claim 1, wherein the at least one fiber extends at a non-perpendicular angle to the peripheral surface of the patch.
3. The tissue graft of claim 1, wherein the at least one fiber extends beyond opposing peripheral surfaces of the patch.
4. The tissue graft of claim 1, wherein the at least one fiber comprises a first fiber that extends beyond a first pair of adjacent peripheral surfaces and a second fiber that extends beyond a second pair of opposing peripheral surfaces different from the first pair.
5. The tissue graft of claim 1, wherein the fiber comprises a biocompatible material that is bioresorbable, biodegradable, or non-resorbable.
6. The tissue graft of claim 1, wherein at least one of the patch and the fiber is modified to improve adhesion between the patch and the fiber.
7. The tissue graft of claim 1, wherein the at least one fiber is stitched into the patch in one of a linear pattern, a concentric pattern, multiple concentric patterns, and/or a cross-hatched configuration.
8. The tissue graft of claim 1, wherein the patch is decellularized.