Claims:

1. A biocompatible tissue graft comprising:

a first layer of a bioremodelable collagenous material;

a second layer of biocompatible synthetic or natural remodelable or substantially remodelable material attached to the first layer;

first and second fibers that are stitched in a reinforcing pattern in the first layer and/or second layer to mitigate tearing and/or improve fixation retention of the layers; and

a third fiber that is stitched in the first and/or second layer and traverses at least one of the first and second fibers, the third fiber having at least one free end extending beyond a peripheral surface of the tissue graft for securing the tissue graft to a host tissue;

wherein the ends of the first fiber are stitched together to form a continuous stitch construction and the ends of the second fiber are stitched together to form a continuous stitch construction, or the ends of the first and second fibers are stitched together to form a continuous stitch construction.

2. The tissue graft of claim 1, wherein the second fiber is disposed in an overlying fashion relative to the first fiber such that the first fiber is disposed between a top surface of the graft and the second fiber.

3. The tissue graft of claim 1, wherein the second fiber is disposed between a top surface of the graft and the first fiber.

4. The tissue graft of claim 1, wherein the ~~cross-hatched~~ reinforcing pattern comprises a first shape, formed from the first fiber, and a second shape that is formed from the second fiber and extends perpendicular to the first shape.

5. The tissue graft of claim 1, wherein the ~~cross-hatched~~ reinforcing pattern comprises a first shape, formed from the first fiber, and a second shape that is formed from the second fiber and extends at a non-perpendicular angle to the first shape.