

WHAT IS CLAIMED IS:

1. A therapeutic device comprising:
a substantially tubular member including a lumen extending therethrough,
wherein a wall of the substantially tubular member includes:
a first composite layer;
a second composite layer; and
a reservoir between the first and second composite layers,
wherein the reservoir is configured to receive and contain
therein a biological moiety.
2. The therapeutic device of claim 1, wherein the first composite layer includes a first cell permeable layer and a first cell impermeable layer and the second composite layer includes a second cell permeable layer and a second cell impermeable layer.
3. The therapeutic device of claim 1 or claim 2, wherein the substantially tubular member has a first end and a second end,
wherein each of the first end and the second end is open to the lumen so that vascularization occurs from the first cell permeable layer of the first composite layer and the second cell permeable layer of the second composite layer.
4. The therapeutic device of any one of claims 1-3, wherein the reservoir has a thickness between 50 microns and 200 microns.
5. The therapeutic device of any one of claims 1-4, wherein the biological moiety is a plurality of cells.
6. The therapeutic device of claim 5, wherein the plurality of cells is selected from prokaryotic cells, eukaryotic cells, mammalian cells, non-mammalian cells, stem cells and combinations thereof.

7. The therapeutic device of any one of claims 1-6, further comprising a port in fluid communication with the reservoir.
8. A therapeutic device comprising:
a plurality of substantially tubular members connected by connection members, each tubular member including a lumen extending therethrough,
wherein each of the plurality of substantially tubular members has a first end and a second end,
wherein each of the first end and the second end is open to the lumen, and
wherein each of the plurality of substantially tubular members has a respective wall including:
a first composite layer;
a second composite layer; and
a reservoir between the first and second composite layers,
wherein the reservoir is configured to receive and contain a biological moiety.
9. The therapeutic device of claim 8, wherein the plurality of substantially tubular members is interconnected by the connection members at a first end or at a second end of the plurality of substantially tubular members.
10. The therapeutic device of claim 8 or claim 9, wherein the plurality of substantially tubular members is independently movable from each other.
11. The therapeutic device of any one of claims 8-10, wherein the plurality of substantially tubular members is fluidly interconnected by the connection members along a length of each of the plurality of substantially tubular members.

12. The therapeutic device of any one of claims 8-11, wherein the reservoir has a thickness of 50 microns to 200 microns.
13. A therapeutic device comprising:
a toroidal member having a first opening therein and a hollow interior;
wherein the toroidal member has a wall including:
a first permeable composite layer;
a second permeable composite layer; and
a reservoir between the first and second composite layers,
wherein the reservoir is configured to receive and contain a
biological moiety.
14. The therapeutic device of claim 13, wherein the toroidal member has a second opening on a side opposing the first opening and in substantial alignment therewith.
15. The therapeutic device of claim 13 or claim 14, further comprising a second toroidal member having a third opening therein positioned adjacent the second opening.
16. The therapeutic device of claim 15, wherein the first and second toroidal members are fluidly interconnected by the second and third openings.
17. The therapeutic device of any one of claims 13-16, wherein the biological moiety is a plurality of cells.
18. The therapeutic device of claim 17, wherein the plurality of cells is selected from prokaryotic cells, eukaryotic cells, mammalian cells, non-mammalian cells, stem cells and combinations thereof.
19. The therapeutic device of any one of claims 13-18, wherein the first and second composite layers each include a cell permeable layer and a cell impermeable layer.

20. The therapeutic device of any one of claims 13-19, comprising a port in fluid communication with the reservoir.