CLAIMS

What is claimed is:

1. A medical dressing comprising:
a)(i) Wharton's jelly stem cells (WJSCs), (ii) a cell culture medium that has been conditioned with WJSCs, (iii) filtered supernatant from a lysate of living WJSCs, (iv) a cell culture medium that has been conditioned with a co-culture of WJSCs and one or more of living skin cells, dying skin cells or keloid cells, for a period of time from about 1 hour to about 14 days to release biologically active components into the medium, wherein the cells are then removed from the medium, or (v) a combination thereof, and
b) a scaffold formed from a mixture comprising polycaprolactone (PCL) and aloe vera powder, wherein the scaffold is impregnated with the cells, culture medium and/or lysate of a).

2. The medical dressing of claim 1 wherein the scaffold formed from a mixture comprising PCL and aloe vera powder is a nanofibrous scaffold.

3. The medical dressing of claim 1 wherein the scaffold has a porosity of about 85% to 95%, a pore size of about 0.5 to about 10 μm, a fiber diameter of about 250 nm to about 650 nm, a fiber thickness of about 250 nm to about 650 nm, or combinations thereof.

4. The medical dressing of claim 1 wherein the lysate of WJSCs is obtained by contacting the WJSCs with a lysis buffer that lyses the WJSCs.

5. The medical dressing of claim 1 wherein for (iv) the co-culturing is under a normoxic or hypoxic environment.

6. The medical dressing of claim 1, wherein the period of time in (a)(iv) is from about 24 hours to about 72 hours.

7. A pharmaceutical composition comprising the medical dressing of claim 1.

8. A medical dressing comprising:
a) (i) a cell culture medium that has been conditioned with Wharton's jelly stem cells (WJSCs) for a period of time to release biologically active components into the medium, wherein the WJSCs are then removed from the medium, (ii) filtered supernatant from a lysate from WJSCs, (iii) a cell culture medium that has been conditioned with a co-culture of WJSCs and one or more of living skin cells, dying skin cells or keloid cells, for a period of time from about 1 hour to about 14 days to release biologically active components into the medium, wherein the cells are then removed from the medium, or (iv) a combination thereof, and
b) (i) a scaffold formed from a mixture comprising polycaprolactone (PCL) and aloe vera powder; or (ii) a scaffold consisting of PCL, wherein the scaffold is impregnated with the culture medium, lysate, and/or combination of a),
wherein the WJSCs are a homogeneous population of WJSCs from Wharton's jelly.

9. The medical dressing of claim 8, wherein the period of time in (a)(iii) is from about 24 hours to about 72 hours.

10. A sterile pharmaceutical composition comprising the medical dressing of claim 8 and a physiologically acceptable carrier or excipient.