What is claimed is:

1. A high-throughput method for analyzing, developing, and/or optimizing, a culture medium for extracellular vesicle production, said method comprising:

(a) culturing cells in a first culture medium, wherein cell division occurs during the culturing, and wherein said culturing is performed in multiplicate;

(b) after step (a) removing said first culture medium from the multiplicate cell cultures, adding different candidate vesiculation culture media to different cell cultures amongst said multiplicate cell cultures, and further culturing the multiplicate cell cultures to produce conditioned media containing extracellular vesicles;

(c) recovering, from the multiplicate cell cultures, either the conditioned media, the cells after the culturing of step (b), or both; and

(d) analyzing at least one property of either the extracellular vesicles in the recovered conditioned media, the recovered cells, or both,

wherein each of steps (a)-(c) is semi-automated or fully automated using an automated liquid handler.

2. The method of any one of claims 1, wherein said cells are iPSC-derived cells and/or primary cells.

3. The method of any of claim 1-2 wherein the culturing is two-dimensional cell culture, wherein the multiplicate cell cultures are cultured in one or more multi-well plates or micro-well plates, wherein the wells are coated with a substance to promote cell adhesion.

4. The method of any one of claims 1-3, wherein the different candidate vesiculation culture media in step (b) are obtained by blending or combining two or more culture media, and/or adding one or more additives or supplements to one or more culture media, to produce a panel of different candidate vesiculation culture media.

5. The method of claim 4, wherein the panel of different candidate vesiculation culture media is produced using an automated liquid handler.

6. The method of claim 5, wherein the panel of candidate vesiculation culture media is produced by blending or combining two or more different culture media from an initial selection of at least five different culture media.

7. The method of claim 5, wherein the panel of candidate vesiculation culture media is produced by blending or combining two or more culture media from an initial selection of at least ten different culture media.

8. The method of any one of claims 5-7, wherein the panel of candidate vesiculation culture media comprises at least two candidate vesiculation culture media.

9. The method of any one of claims 1-8, wherein said cells comprise progenitor cells.

10. The method of any one of claims 1-9, wherein the at least one property of the recovered cells from step (c) analyzed is selected from the group consisting of the cell number, cell viability, cell density, morphologies of the cells, identity of the cells, karyotype of the cells, transcriptome of the cells, hypertrophy, cell health, cell adhesion, cell physiology, and/or ATP content.

11. The method of claim 10, wherein the at least one property is selected from the group consisting of cell number and cell viability.

12. The method of any one of claims 1-9, wherein the at least one property of the extracellular vesicles analyzed is total extracellular vesicle number, extracellular vesicle number per cell, extracellular vesicle concentration, extracellular vesicle size, extracellular vesicle size distribution, protein concentration, protein profile concentration, RNA profile, potency, or marker expression.

13. The method of claim 12, wherein at least one property of the extracellular vesicles analyzed is selected from total extracellular vesicle number, extracellular vesicle number per cell, extracellular vesicle size, and marker expression.

14. The method of claim 13, wherein the marker is a tetraspanin, wherein the tetraspanin is selected from the group consisting of CD9, CD63 and CD81.

15. The method of any one of claims 13-14, wherein the marker is detected using an immunoassay.

16. The method of any one of claims 10-15, wherein the measurement of at least one property is at least partially automated.

17. The method of claim 1, wherein in said method,

the culturing comprises culturing said cells on a surface of a culture vessel, said culture vessel being a multi-well plate or a micro-well plate,

the different candidate vesiculation culture media in step (b) are obtained by blending or combining two or more culture media together, from an initial selection of at least two different culture media, to produce a panel of different candidate vesiculation culture media,

said method comprises, in step (d), analyzing cell number and cell viability using an automated cell counter,

said method further comprises, in step (d), measuring the total extracellular vesicle number and/or the extracellular vesicle number per cell, by measuring the expression of at least one marker present on extracellular vesicles by a high-throughput immunoassay.

18. The method of claim 17, wherein the immunoassay is a Tim4-capture ELISA.

19. The method of any one of claims 1-18, further comprising selecting a vesiculation media from among the candidate vesiculation media based on the results of the analysis of step (d).

20. The method of claim 19, wherein the selected media provides an improvement in one or more of cell growth, cell viability, total extracellular vesicle number, extracellular vesicle number per cell, marker expression on extracellular vesicles, and extracellular vesicle size, as compared to a control benchmark medium, or an unblended medium.

21. A vesiculation media selected by the method of claim 19 or 20.

22. A system for performing the method of any one of claims 1-21, wherein said system comprises one or more of an automated liquid handler, an automated cell counter, or an immunoassay kit.

23. The method of any one of claims 17-22, wherein the panel of candidate vesiculation culture media is produced by blending or combining three or more different culture media.

24. The method of any one of claims 17-23, wherein the blending or combining of the two or more culture media together is from an initial selection of at least five different culture media.