CLAIMS:

The invention claimed is:

1. A supply transport device, comprising:

a main body having a bottom surface, a plurality of vertical support posts, and a plurality of horizontal cross members extending between each of the plurality of vertical support posts so as to form a front end, a rear end, and two opposing longitudinal sides; and

an interchangeable wheel base assembly configured to receive and mate with the bottom surface of the main body, the interchangeable wheel base assembly having guiderails extending upward at each of the longitudinal sides of the wheel base assembly that extend the entire length thereof, and continuous flat front and rear opposing ends,

wherein supplies placed on the bottom surface of the main body are held securely in place by the horizontal cross members, and

wherein each of the plurality of vertical support posts has a top end, a bottom end and an intermediate portion extended therebetween, such that each of the horizontal cross members extends between each of the plurality of vertical support posts at the intermediate portion.

2. The supply transport device of claim 1, further comprising a locking mechanism configured to releasably couple the main body with the interchangeable wheel base assembly.

3. The supply transport device of claim 2, wherein the main body is fixed to the wheel base assembly when the locking mechanism is engaged.

4. The supply transport device of claim 2, wherein the main body is uncoupled from the wheel base assembly when the locking mechanism is disengaged.

5. The supply transport device of claim 1, wherein the main body is fully autoclavable.

6. The supply transport device of claim 1, wherein the main body has at least four vertical support posts and at least four horizontal cross members extending between each of the vertical support posts so as to form at least one rectangular side rail.

7. The supply transport device of claim 1, wherein the main body is capable of being transported to and from a clean room environment via the interchangeable wheel base assembly.

8. A tray transport device, comprising:

a main body having at least one elongated tray-receiving structure and a bottom surface;

a plurality of trays;

a plurality of opposing pairs of lips extending perpendicularly from the at least one elongated tray-receiving structure, each pair of lips defining a channel that slidably receives one of the plurality of trays;

an interchangeable wheel base assembly configured to receive and mate with the bottom surface of the main body; and

a locking mechanism configured to releasably couple the main body with the interchangeable wheel base assembly,

wherein each of the tray-receiving structures extends vertically upwards relative to the wheel base assembly.

9. The tray transport device of claim 8, wherein the main body is fixed to the wheel base assembly when the locking mechanism is engaged.

10. The tray transport device of claim 8, wherein the main body is uncoupled from the wheel base assembly when the locking mechanism is disengaged.

11. The tray transport device of claim 8, wherein the main body is fully autoclavable.

12. The supply transport device of claim 1, wherein the main body has at least three tray-receiving structures.

13. The tray transport device of claim 8, wherein the main body is capable of being transported to and from a clean room environment via the interchangeable wheel base assembly.

14. A transport device, comprising:

a wheel base assembly having a top surface;

at least two wheels coupled to the wheel base assembly, each having a braking mechanism;

a rotatable actuation mechanism positioned adjacent the braking mechanism; and

a handle directly coupled to and extending upward from the actuation mechanism and above the top surface of the wheel base assembly, the handle configured to move the actuation mechanism between an open position at which no stopping force is applied, and a braking position at which the actuation mechanism causes the braking mechanism to apply,

wherein the rotatable actuation mechanism includes a horizontal bar that is coupled to the handle and extends horizontally between the at least two braking mechanisms.

15. The transport device of claim 14, further comprising a stop brake formed of an L-shaped body having a first end and a second opposing end, wherein the actuation mechanism moves the stop brake between the open position and the braking position.

16. The transport device of claim 15, wherein the horizontal bar is coupled to the first end of the stop brake.

17. The transport device of claim 14, wherein the transport device is a cart.

18. The supply transport device of claim 1, wherein the plurality of horizontal cross members define a receiving area for the supplies.

19. A transport device, comprising:

a wheel base assembly having a top surface;

at least two wheels coupled to the wheel base assembly, each having a braking mechanism;

a rotatable actuation mechanism positioned adjacent the braking mechanism;

a handle directly coupled to and extending upward from the actuation mechanism and above the top surface of the wheel base assembly, the handle configured to move the actuation mechanism between an open position at which no stopping force is applied, and a braking position at which the actuation mechanism causes the braking mechanism to apply; and

a stop brake formed of an L-shaped body having a first end and a second opposing end,

wherein the actuation mechanism moves the stop brake between the open position and the braking position, and

wherein the rotatable actuation mechanism extends horizontally between the at least two braking mechanisms.

20. The transport device of claim 19, wherein the rotatable actuation mechanism includes a horizontal bar that is coupled to the first end of the stop brake.

21. The transport device of claim 19, wherein the rotatable actuation mechanism includes a horizontal bar that is coupled to the handle.