CLAIMS:

What is claimed is:

1. A method executed by at least one processor for navigating a path of hierarchical menu levels adapted for output to a graphical user interface (GUI), the method comprising:

providing, by at least one processor, a first command for a first menu of one or more user-selectable menu items to be displayed on a first portion of a user interface (UI) display; and

providing, by the at least one processor, a second command for a second menu of one or more user-selectable menu items to be displayed on the first portion of the UI display in response to a user's selection,

wherein at least one of user-selectable menu items of the first menu is adapted to be displayed on a second portion of the UI display and comprises one or more of a past-selected menu item and a past-unselected menu item of the hierarchical menu levels and is adapted to be concurrently viewed with the second menu in first portion; and

further wherein the one or more user-selectable menu items of the second menu comprises menu items provide for establishment of at least one criterion to be applied against one or more experiments.

2. The method of claim 1, wherein the one or more criterion provide for establishing, recalling, refining, modifying, and/or editing one or more criteria as applied to data related to the one or more experiments.

3. The method of claim 1 or 2, wherein the one or more experiments include an assay-based experiment.

4. The method of claim 3, wherein the assay-based experiment is an electrochemiluminescence (ECL)-based assay.

5. The method of any one of claims 1 to 4, wherein the one or more criterion provide for filtering, limiting, truncating, and/or customizing one or more data sets related to the one or more experiments.

6. The method of claim 5, wherein the one or more data sets can be limited and/or filtered by upper and/or lower data limits of data related to the one or more experiments.

7. The method of claim 5 or 6, wherein the one or more data sets can be limited and/or filtered by one or more customizable ranges of data related to the one or more experiments.

8. The method of any one of claims 1 to 7, wherein options of the first menu of one or more user-selectable menu items include designing one or more criterion, creating one or more new criterion, and/or recalling one or more previously created criterion.

9. The method of claim 8, wherein in response to a selection of the creating one or more new criterion, the first portion is adapted to display options to limit, exclude, and/or flag certain data from the data related to the one or more experiments.

10. The method of any one of claims 8 to 9, wherein the one or more new criterion comprises ECL-related parameters, including one or more of signal, adjusted signal, Signal %CV, calc. concentration, calc. concentration %CV, and/or % Recovery.

11. The method of any one of claims 9 to 10, wherein the options to limit, exclude, and/or flag certain data includes filtering the data by one or more of a less-than value, an equal-to value, a greater-than value, within a range of values, and/or within one or more reference values.

12. The method of any one of claims 8 to 11, wherein the first portion is adapted to display a confirmation screen for storing the one or more new criterion.

13. The method of claim 12, wherein the one or more newly created criterion can be later recalled, edited, and/or modified.

14. The method of any one of claims 8 to 13, wherein in response to a selection of recalling one or more previously created criterion, the first portion is adapted to display criterion from a previously created and saved set of criteria.

15. The method of claim 14, wherein the set of criteria includes one or more criterion related to the experiment.

16. The method of any one of claims 1 to 15, wherein options of the first menu of one or more user-selectable menu items includes displaying one or more of recent and/or available criteria.

17. The method of claim 16, wherein in response to a selection of the available criteria, the first portion is adapted to display one or more of an individual who created the criteria, a date the criteria was created, and/or name of the criteria.

18. The method of any one of claims 1 to 17, wherein the UI display further includes an advanced selector, wherein in response to a first selection of the advanced selector, the UI display is adapted to display an advanced context menu that includes advanced menu choices.

19. The method of claim 18, wherein the advanced menu choices include an option to display one or more of sets of criteria.

20. The method of claim 19, wherein the display of one or more sets of criteria include: displaying existing criteria, displaying only visible criteria, displaying all criteria, and/or displaying only hidden criteria.

21. The method of any one of claims 18 to 19, wherein the advanced menu choices includes an option to hide criteria which, when selected, excludes hidden criteria from being displayed by the UI display.

22. The method of claim 21, wherein the advanced menu choices includes an option to show visible criteria which, when selected, displays on the UI display all criteria except for the hidden criteria.

23. The method of any one of claims 18 to 22, wherein the advanced menu choices includes an option to show all criteria, which, when selected, allows all criteria to be displayed by the UI display.

24. A method executed by at least one processor for navigating a path of hierarchical menu levels adapted for output to a graphical user interface (GUI), the method comprising:

providing, by at least one processor, a first command for a first menu of one or more user-selectable menu items to be displayed on a first portion of a user interface (UI) display; and

providing, by the at least one processor, a second command for a second menu of one or more user-selectable menu items to be displayed on the first portion of the UI display in response to a user's selection,

wherein at least one of user-selectable menu items of the first menu is adapted to be displayed on a second portion of the UI display and comprises one or more of a past-selected menu item and a past-unselected menu item of the hierarchical menu levels and is adapted to be concurrently viewed with the second menu in first portion; and

further wherein the one or more user-selectable menu items of the second menu comprises menu items provide at least one option to create, organize, and/or aggregate data related to one or more experiments.

25. A method executed by at least one processor for navigating a path of hierarchical menu levels adapted for output to a graphical user interface (GUI), the method comprising:

providing, by at least one processor, a first command for a first menu of one or more user-selectable menu items to be displayed on a first portion of a user interface (UI) display; and

providing, by the at least one processor, a second command for a second menu of one or more user-selectable menu items to be displayed on the first portion of the UI display in response to a user's selection,

wherein at least one of user-selectable menu items of the first menu is adapted to be displayed on a second portion of the UI display and comprises one or more of a past-selected menu item and a past-unselected menu item of the hierarchical menu levels and is adapted to be concurrently viewed with the second menu in first portion; and further wherein the one or more

user-selectable menu items of the second menu comprises menu items provide at least one option to review and/or analyze data related to one or more experiments.

26. A method executed by at least one processor for navigating a path of hierarchical menu levels adapted for output to a graphical user interface (GUI), the method comprising:

providing, by at least one processor, a first command for a first menu of one or more user-selectable menu items to be displayed on a first portion of a user interface (UI) display; and

providing, by the at least one processor, a second command for a second menu of one or more user-selectable menu items to be displayed on the first portion of the UI display in response to a user's selection,

wherein at least one of user-selectable menu items of the first menu is adapted to be displayed on a second portion of the UI display and comprises one or more of a past-selected menu item and a past-unselected menu item of the hierarchical menu levels and is adapted to be concurrently viewed with the second menu in first portion; and

further wherein the one or more user-selectable menu items of the second menu comprises menu items provide at least one option to manipulate data related to one or more experiments.

27. A method executed by one or more processors for navigating a path of hierarchical menu levels adapted for output to a graphical user interface (GUI), the method comprising:

providing, by one or more processors, a first command for a first menu of one or more user-selectable menu items to be displayed on a first portion of a user interface (UI) display; and

providing, by the one or more processors, a second command for a second menu of one or more user-selectable menu items to be displayed on the first portion of the UI display in response to a user's selection,

wherein at least one of user-selectable menu items of the first menu is adapted to be displayed on a second portion of the UI display and comprises one or more of a past-selected menu item and a past-unselected menu item of the hierarchical menu levels and is adapted to be concurrently viewed with the second menu in first portion; and

further wherein the one or more user-selectable menu items of the second menu comprises data related to one or more experiments and at least one corresponding indicator.

28. A method, executed by one or more processors, for conducting one or more experiments, the method comprising:

displaying on a graphical user interface (GUI) aggregated data corresponding to one or more samples of one or more assays of the one or more experiments, wherein one or more assay are performed in one or more containers;

displaying on the GUI an indicator for indicating which of the one or more samples are to be repeated; and

providing a command, by one or more processors, to repeat the one or more indicated samples.