

Flow Cytometry Questionnaire

1. Please characterize how often you use flow cytometry in your research or work?

- Frequent use – daily
- Regular Use – once or twice a week
- Occasional Use – once or twice a month
- Infrequent Use – less than once a month
- I do not use flow cytometry – exited from survey

2. Which best describes your current flow cytometry facility?

- My lab owns a flow cytometer
- My lab shares a flow cytometer with a few other labs
- My lab uses a flow cytometer core facility
- My lab contracts our flow cytometry work to an outside lab
- Other, please specify

3. What is the goal or primary focus of your research?

- Basic research
- Target validation
- Assay development
- High Throughput Screening Assays
- Clinical research
- Clinical routine testing
- Infectious Disease Testing
- Other (please specify)

4. Which of the following do you use in your flow cytometry experiments?

- Flow cytometer/analyzer system
- Cell sorter
- Multiplexed bead assays
- Flow cytometry kits
- Positive control cells
- Fluorochrome-labeled primary antibodies
- Fluorochrome-labeled secondary antibodies
- Fluorescent particles/microspheres for calibration
- Fluorescent dyes for labeling antibodies/conjugates
- Fluorescent dyes for cell metabolism
- Fluorescent dyes for ion channel studies
- Fluorescent dyes for nucleic acid staining
- Membrane Dyes
- Quantum dots
- Flow cytometry data analysis software
- None of the above

5. Do you require automated sampling (i.e. the ability to load samples in plate format)?

- Yes (Please specify which plate format, e.g. 96-well, 384-well, etc)
- No

6. How many flow cytometry experiments do you typically run per week?

- Less than 1
- 1 – 3
- 4 - 5
- 6 - 10
- 11 - 20
- 21 – 50
- 51 - 100
- More than 100

7. How many samples do you run in an average flow cytometry experiment?

- Up to 10
- 11 – 20
- 21 – 30
- 31 – 50
- 51 – 100
- More than 100

8. How do you expect the total number samples measured by flow cytometry to change over the next 12 months?

- | | |
|-------------------------|-------------------------|
| - Increase by > 50% | - Decrease by 1% - 10% |
| - Increase by 25% - 50% | - Decrease by 10% - 25% |
| - Increase by 10 – 25% | - Decrease by 25% - 50% |
| - Increase by 1% - 10% | - Decrease by > 50% |
| - No change | |

9. What type(s) of samples do you measure with flow cytometry?

- Whole blood
- Cell culture supernatant
- Serum
- Biological fluids
- Cultured cells
- Thawed clinical samples
- Other, please specify

10. What is the top company that comes to mind when you think of flow cytometry? (open-ended)

11. What brand of flow cytometer do you PRIMARILY use?

- Accuri
- Amnis Corporation
- BD Biosciences
- Beckman Coulter
- Bio-Rad BioPlex
- Cytopeia
- Cytex
- Dako
- Guava Technologies
- Luminex
- Partec
- Union Biometrica
- I don't know
- Other (please specify)
- Do not use

12. What are the top five reasons you chose the brand of flow cytometer you use? (Rank from 1 to 5, 1 = Primary, 2 = Secondary, etc.)

- Number of available colors and/or lasers
- Speed/Throughput
- Footprint (instrument size)
- Technical support and training
- Software performance
- Price
- Brand recognition
- Automation
- Cell sorting capability
- Service and Warranty
- Sensitivity
- Number of Lasers
- Number of Fluorochromes Detectable
- Aseptic or Sterile Capability
- Technical support
- Usefulness of website

13. What brand(s) of flow cytometry kits and/or reagents do you use? (check all that apply)

- AbD Serotec
- Alpco Diagnostics
- Assay Designs/Stressgen Bioreagents
- AMERICAN DIAGNOSTICA
- BACHEM
- BD Biosciences
- Beckman Coulter
- Bender MedSystems
- BioCytex
- BioLegend
- BioVision
- Cayman Chemical
- Calbiochem
- Cell Signaling Technology
- Dako
- eBioscience
- Guava Technologies
- Invitrogen/Molecular Probes
- Millipore (Chemicon/Upstate/Linco)
- Miltenyi Biotec
- Partec
- Promega
- R&D Systems
- Roche Applied Science
- Santa Cruz Biotechnology
- Sigma
- Stratagene
- Other, please specify

14. Which of the following flow cytometry applications do you perform? (check all that apply)

- Light Scatter
- Fluorescence
- Immunofluorescence
- DNA Content Analysis/DNA Staining
- Gene Expression and Transfection
- Metabolic Studies
- Cell sorting
- Other (please specify)

15. Which of the following molecule types do you analyze by flow cytometry?

- Cytokines
- Chemokines
- Cytokine receptors
- Chemokine receptors
- Apoptosis proteins
- Cell cycle proteins
- Glycoproteins
- CD markers / cell surface markers
- Modified proteins (phosphorylated, etc)
- Adhesion molecules
- Stem cell markers
- Toll Receptors
- Viral Receptors
- Nucleic Acids
- Microbial Infectious Agent Detection
- Cytoskeleton Proteins
- Other (please specify)

16. Which of the following cell types do you use in flow cytometry applications?

- Primary cells
- Lymphocytes
- Granulocytes
- Embryonic stem cells
- Hematopoietic stem cells
- Dendritic cells
- Cell lines
- Cancer or Neoplastic Cells
- Transfected Cells
- Other (please specify)

17. What fluorochromes or fluorescent dyes do you use? (check all that apply)

- Pacific Blue
- Cascade Yellow
- Fluorescein Isothiocyanate (FITC)
- Phycoerythrin (PE)
- Texas Red
- Cy5
- Cy5.5
- Cy7
- Alexa 405
- Alexa 647
- Alexa 488
- Alexa 610
- Alexa 700
- Alexa 750
- Indo-1
- Hoechst 33342
- Cascade Blue
- Monochlorobimane (MCB)
- Allophycocyanin (APC)
- Propidium Iodide
- Rhodamine
- GFP
- PE/Cy5
- PE/Cy5.5
- PE/Cy7
- APC/Cy7
- APC/Cy5
- PerCP
- PE/Texas Red
- Other (please specify)

18. How many colors do you typically use on your analytical flow cytometer?

- 1-2
- 3-4
- 5-6
- 7 or more

19. How many colors will you typically use in the next three years?

- 1-2
- 3-4
- 5-6
- 7 or more

20. How often does your research require cell sorting capabilities?

- Often, # of colors _____
- Sometimes, # of colors _____
- Rarely, # of colors _____
- Never

21. How often does your research require sterile conditions?

- Often
- Sometimes
- Rarely
- Never

22. Does your flow cytometer use commercial sheath fluid or deionized filtered water?

- Commercial sheath fluid
- Deionized filtered water
- Other, please specify

23. Which of the following flow cytometry software types do you primarily use to analyze data?

- Software package that came with the flow cytometer
- Third party flow cytometer software – purchased
- Third party flow cytometer software – freeware

24. What software do you use to analyze your flow cytometry data? (check all that apply)

- FCS Express from De Novo Software
- FlowJo from FlowJo LLC
- ModFit LT from Verity Software House
- QuantCALC from Verity Software House
- WinList from Verity Software House
- WinList 3D from Verity Software House
- CellQuest Pro from BD Biosciences
- Paint-A-Gate Pro from BD Biosciences
- BD Attractors from BD Biosciences
- BD FACSDiva from BD Biosciences
- Expo 32 from Beckman Coulter
- Summit from Dako
- Guava Cytosoft from Guava Technologies
- FloMax from Partec
- Other (please specify)

25. How many gates do you typically create when analyzing a single flow cytometry sample?

- 0
- 1 – 2
- 3 – 5
- 6 – 10
- 11 – 15
- 16 – 20
- More than 20

26. Please rate the importance of the following flow cytometry data analysis software features to your research? (1 = Not at all important, 5 = Very important)

- Online documentation
- Technical support
- Histogram plot
- Ability to create a variety of gate shapes
- Export data capability
- 2D Plots (dot, density, contour)
- Overlay capabilities

27. What would you identify as the biggest technical problem in your experience performing flow cytometry? (open-ended)

28. Do you have any suggestions you would like to provide to suppliers when designing next generation flow cytometry equipment, software, and kits and reagents? (open-ended)

- Flow Cytometers:
- Kits and reagents:
- Software:

29. When looking for flow cytometry reagents, where do you typically search to find the reagent you need? (check all that apply)

- Supplier website
- Biocompare
- Google
- Yahoo
- Purdue Flow Cytometry Board
- Colleagues
- Other (please specify)

Demographic Questions

30. In which type of institution do you work?

- Academic
- Pharmaceutical
- Private Research
- Other (Please specify)
- Biotechnology
- Government
- Clinical/Hospital

31. Which title best applies?

- Professor/Instructor
- Lab Manager/Supervisor
- Business Dev Director/Manager
- Department Head
- Account Manager
- Staff Scientist
- President/CEO/Owner/VP
- Postdoctoral Fellow
- Consultant
- Product Manager
- Process Engineer
- Research Associate
- Research Director/VP of Research
- Technician/Research Assistant
- Graduate Student
- Principal Investigator
- Lab Director/Chief Scientist
- Procurement Manager
- Other

32. What is your highest professional degree?

- PhD
- Masters Degree
- Undergraduate Degree
- MD
- MD/PhD
- Other, please specify

33. Which best describes your purchasing authority?

- Authorize
- Recommend
- Evaluate
- No Purchase Role

34. Which of the following are your key areas of research or work?

- Bioinformatics
- Drug Discovery
- Biomanufacturing /Process Development
- Proteomics
- Diagnostics/Pathology
- Microbiology/Virology
- Immunology
- Cell Signaling
- Genomics/Genetics
- Cell Biology
- Biochemistry
- Pharmacology/Toxicology
- Molecular Biology
- Neuroscience
- Bioengineering
- Purchasing
- Administration
- Marketing/Sales
- Other