

Attendees:

Asare Adam (ITN), Boyce Keith (ITN), Brinkman Ryan (BCCRC), Dalphin Mark (Amgen), Dunne Jack (BDB), Ferrari Guido (CHAVI/Duke), Fourby Don (BDB), Gentleman Robert (FHCRC), Gosink John (Amgen), Gottardo Raphael (UBC), Greller Larry (Biosystemix/NIML), Haaland Perry (BDT), Le Meur Nolwenn (FHCRC), Masse Robert (NIML), Means Gary (Amgen), Moody Tony (Duke), Newhall Katie (Amgen), Novo Dave (De Novo Software), Parrish Dave (ITN), Rand Hugh (Amgen), Rees Bill (Amgen), Scheuermann Richard (BISC), Seyfert Vicki (ITN), Siebert Janet (Cytoanalytics), Somogyi Roland (Biosystemix/NIML), Spidlen Josef (BCCRC), Strauss Nathaniel (Amgen), Su Cheng (Amgen), Taylor Scott (Amgen), Treister Adam (Treestar, Inc.), Walkling Jim (BDB), Wilkinson Peter (NIML)

Short Term Milestones (due by 11/7/06)

1. Release R package “flowcore” V0.1 including a first draft at basic components of the core data/object model
 - a. R. Brinkman
 - b. R. Scheuerman
 - c. M. Dalphin
 - d. H. Rand
 - e. N. Le Meur
 - f. R. Gentleman
2. Release R package “plateflow” V0.1 with some basic functionality for plate-based flow data in a form compatible with “flowcore”
 - a. P. Haaland
 - b. A. Triestar
 - c. H. Rand
 - d. M. Dalphin
3. Create an informational web site with research topics vs researchers, a reading list, resources, techniques from other fields relevant to flow informatics, etc. The web site could also include the current milestones and their status.
 - a. R. Gottardo
 - b. P. Wilkinson
 - c. N. Le Meur
4. Use Case: ITN will release a blinded data set for QA workflow demonstration.
 - a. A. Asare
 - b. K. Boyle
5. Use Case: Amgen will release one or more use cases in cooperation with FHCC
 - a. B. Rees
 - b. R. Gentleman

- c. H. Rand
 - d. M. Dalphin
- 6. Use Case: BDT will release a use case for plate based flow
 - a. P. Haaland
- 7. Use Case: BDB will release a use case based on their normal donor study.
 - a. J. Dunne
- 8. Create a mailing list.
 - a. R. Brinkman
- 9. Draft and review a mission statement for the “Flow Informatics and Computational Cytometry Society” including a funding proposal and workscope.
 - a. B. Rees
 - b. R. Brinkman
 - c. R. Gentleman
 - d. D. Parrish

Focus Areas with Indications of Interest

- 1. Core Object Model
 - a. R. Scheuerman
 - b. A. Treistar
 - c. R. Brinkman
 - d. J. Spidlen
 - e. M. Dalphin
 - f. P. Wilkinson
 - g. N. Le Meur
 - h. R. Gentleman
 - i. P. Haaland
- 2. Deployment
 - a. P. Wilkinson
 - b. R. Brinkman
 - c. A. Triestar
 - d. R. Scheuerman
 - e. K. Boyce
 - f. J. Dunne
- 3. Funding/Organization
 - a. P. Haaland
 - b. R. Brinkman
 - c. J. Dunne
 - d. R. Gentleman
 - e. A. Asare
 - f. W. Rees
- 4. Application Packages
 - a. P. Haaland
 - b. R. Gottardo
 - c. N. Le Meur
- 5. New Methods Development

- a. R. Gottardo
- b. R. Scheuerman
- c. L. Geller
- d. P. Wilkinson
- e. H. Rand
- f. R. Brinkman
- g. N. Le Meur
- h. J. Siebert
- i. J. Gosink
- j. M. Dalphin
- k. R. Gentleman
- l. A. Asare

Potential Use Cases:

1. BCCR – time course
2. BCCR – drug effects
3. BD – FACS CAP™
4. BD – 40 Normal Donors
5. FlowJo – L&L
6. FlowJo – HIV/AIDS
7. Amgen – Phosflow
8. Amgen – Immunophenotyping with known outliers
9. CHAVI – Immune profiling

Research Themes:

1. Normalization
2. Density estimation
3. Clustering & mixture models
4. Relevant distributional parameter definitions
5. cell classification schemes
6. QA
7. Visualization