

***Future of Flow Informatics and
FlowCAP***

Feedback on FlowCAP-3 → FlowCAP-4

- **Challenges:**
 - Low participation, Difficulty, Timing, Too many?
 - Publications?
- **Data analysis & remaining bottlenecks**
 - Statistical methodology
 - Computation infrastructure
- **Do we have what we need? Where can we improve things?**

FLowCAP IV structure

- **Annual competition – Organization of challenges?**
 - Should be challenging to resolve performance of algorithms
 - Should have external outcomes
 - The tyranny of the manual gating standard - avoid or embrace?
 - Pre-processing and result formats
 - Time required for analysis

- **Which use cases?**
 - Classification
 - Specified population enumeration
 - *Matching manual gating is OK in the short term*
 - Population discovery
 - *Matching manual is not the right comparison*
 - Support Lyoplate initiative
 - Pre-processing, normalization, combining multiple panels.....

Evolution of FlowCAP

- **Should FlowCAP be an ongoing service?**
 - User interface for testing algorithms – already done for FlowCAP I and II?
 - User interface for analyzing datasets
 - Match-making between algorithm developers and data generators?
 - Funding
 - Data preprocessing for compatibility with algorithms

- **Different types of data for analysis**
 - Cytof – yes.
 - Imagestream
 - 2D scanning cytometry