Benefits of a Core Career Track

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# Flow Cytometry Shared Resource

- **Operators:**
  - Pamela Canaday
  - Kyle Taylor
  - Reshma Purohit
  - Christina Metea

- **Director:**
  - Mike Munks

- **2 Locations:**
  - RJH 5380
  - KCRB 4161

## Instruments

- **Analytical Instruments**
  - 1-43 colors/markers

- **Cell Sorters**
  - Single cell
  - 1-18 colors/markers

- **Automacs**

- **Luminex**

- **Site License and training**
  - FCS Express
  - FlowJo

- **Training**
- **Seminars**
- **Consultation**
  - Experimental Design
  - Assay Requirements
  - Optimization
  - Standardization

- **Letters of Support**
- **Grant Support**
Conventional Cytometers
- BD Symphony 5 laser, 21 parameters
- BD Fortessa 4 laser, 18 parameters
- Beckman Coulter CytoFlex S 4 laser, 13 parameters

Spectral Cytometers
- CyTEK Aurora 5 laser, 43 parameters
- Fluidigm CyTOF Helios 40 parameters

Cell Sorters
- BD ARIA Fusion 5 laser, 18 parameters
- BD ARIAIIIu 4 laser, 16 parameters
- BD InFlux 4 laser, 11 parameters
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<th>Common Uses for Flow Cytometry</th>
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<tr>
<td>Sorting cells for pure populations</td>
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<td>Gene Expression and Transfection</td>
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<td>Immunophenotyping</td>
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<td>Cell Cycle</td>
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<td>Cell Proliferation</td>
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<td>Single cell sorts (Index sorting) into plates or onto slides</td>
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<td>Small particle detection</td>
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<td>Drug efficacy</td>
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<td>CyTOF-use of metals in place of Fluorescence</td>
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<td>Cytometric Bead Array (CBA)</td>
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<td>Cytokine detection</td>
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<td>Ploidy analysis</td>
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<td>Bacteria sorts</td>
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<td>Fluorescence Resonance Energy Transfer (FRET)</td>
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<td>Calcium Flux</td>
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<td>Luminex-analyte analysis and measurement</td>
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Core Skills Are In Demand
My Background

• Associates – Dishwasher

• 2004 Fred Hutchinson Customer service

• 2006 OHSU Flow Core
2018 Was Recruited to work in the Bay Area

- Salary + bonus was over double what I made in the core at OHSU.
- Came back in April 2021 for family reasons.
- Promised Phil 2 years
Six Months Later – People started to Leave

- Remote Flow Support Person – 2X salary
- Other Flow Core in Portland – 2X salary
- 2 Locations 2 people
- Booked 3-5 weeks in advance
Situation was messed up like a bent probe.
How is a core scientist position different from a lab job?

- More defined hours
- Customer service
- Very specific set of skills
- On call
- Different career track
Is A Core Job A Forever Job?

- Living wage – bought myself a little condo
- Recognition of our value
- Easier to recruit people
- It’s a perfect fit
Core Scientist Track

• Assistant Core Scientist 1
• Assistant Core Scientist 2
• Associate Core Scientist
• Core Scientist
• Senior Core Scientist