Welcome to OSCON 2022

Dave Mulvihill
Director of Informatics | Siteman Cancer Center
Washington University & Barnes Jewish Hospital
St. Louis, MO
dmulvihill@wustl.edu
Agenda

1. Team Introductions
2. A brief history of OpenSpecimen
3. OpenSpecimen usage at WashU
4. System overview
5. Community
6. Questions
Team Introductions

Anu Francis

**Technical support**
- BJC (hospital partner) database support and maintenance
- WashU IT virtual server and application maintenance, security and stability
- Troubleshooting and support engagement with Krishagni
- Application testing

Lee Myrick

**Domain Support**
- Interface with biobanks for
  - Onboarding/Training
  - Workflow assessment/enhancement
  - REDCap Integration
  - General support
- Application testing and enhancement documentation
- Regulatory (CAP) support
A brief history of OpenSpecimen at WashU

NCI Funded Development
1/06 - 9/13

Community Funded Development
1/12 - 3/15

WashU TPC goes live with Core 1.2
Users n=5

Internal Support
4/15 - 9/18

Krishagni Contract
9/18 -

OpenSpecimen 1.0
6/14

OpenSpecimen 2.0
12/14

OpenSpecimen 3.0
3/15

Pediatrics
Human Tumor Atlas Network
GynOnc
OBGYN
Users n~114

Alzheimer Disease
Renal Research
Hepatobiliary – Pancreas
Gut Microbiome
Pulmonary
Users n~80
Biorepositories Using OpenSpecimen

Biorepository Types
- SCC – shared resource (Siteman Cancer Center)
- Kidney
- Gynecology
- Autoimmune diseases
- Sepsis
- COVID-19
- Stroke
- Lupus

Total Biorepositories

<table>
<thead>
<tr>
<th>Year</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11</td>
<td>12</td>
<td>12</td>
<td>14</td>
<td>15</td>
</tr>
</tbody>
</table>
Plugins

• **Project tracker** (sponsored by WashU)
  – Designed to help biobanks and researchers to keep track of projects, requests, services, timelines, and their status. (more details coming later)

• **Coordinator Workflow** (sponsored by WashU)
  – Designed to streamline primary specimen collection (more details coming later)

• **REDCap**
  – Highly configurable unidirectional integration with clinical data
System Overview

Manual Data
Bulk Operations
Clinical Data
OpenSpecimen
Output
Saved/Schedule Queries
Extract, Transform, Load
Billing
QA
Workload
Administrative
Custom JAVA process for PI notification of coordinator CP access
CP/Participant/Shipment/Specimen data
Community

• **Krishagni tools**
  - Confluence for user documentation
  - JIRA for issue/request tracking
  - Discussion Forums

• **Community virtual meetings**
  - Hosted by WashU
  - 2-3 meetings per year
  - Community driven agenda and discussion
  - Learn from others to flatten curve
  - Establish collaboration touchpoints
  *Reach out to Lee for more information

**Goals**
- Increase global adoption
- Sustained funding model
- Build best product

---

**Input from Adopters**

- Adopter 1
- Adopter 2
- Adopter 3
- Adopter n
Any Questions