Day 2: NCI Shady Grove Campus & Virtual Thursday Oct 17, 2024, 9:00am-4:30pm

We will be starting shortly...



Day 2 Welcome

Jill Barnholtz-Sloan Ph.D. Thursday Oct 17



Meeting Logistics

- Participant engagement via Slido (connection details next slide)
- Online participants will be muted, limited to in person audio

- Meeting chat is available to address technical issues
- Unable to connect, e-mail event staff @ <u>crdc_pmo@mail.nih.gov</u>
- Recordings and presentation material available following the meeting
- Food service available: Shady Grove Café and local restaurants



Participant Engagement

In Person & Online in Slido

- Live Q&A with keynote & featured speakers
- Ask questions / receive real-time responses
- Upvote and join in discussions
- Survey participation

'Tag' the presenter



Slido.com #2816093

- When submitting questions or comments, select the label with the presenter's name
- Enables connection to the presentation and interactive discussions throughout the day
- We are looking forward to the discussion

Agenda – Day 2

9:00am–10:30am: CRDC History, Current State & Lessons Learned 10:30am–10:50am: BREAK 20-minutes **10:50am–11:25am:** CRDC Success Stories **11:25am–12:25pm:** NCI Programs Leveraging CRDC 12:25pm-1:25pm: LUNCH 60-minutes **1:25pm–2:10pm:** Artificial Intelligence (AI) and the CRDC 2:10pm–2:50pm: Future Spotlight 2:50pm-3:10pm: BREAK 20-minutes **3:10pm–4:20pm:** Panel Discussion with NCI Partners 4:20pm-4:30pm: Close Out

CRDC History, Current State, & Lessons Learned

9:00am – 10:30am

- Welcome & CRDC In a Nutshell
 - Jill Barnholtz-Sloan, NCI CBIIT

Keynote Address

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Amanda J. Borens, Founder of Tesselate Data Consulting

- Impact of Data Science on Cancer Research
 - Warren Kibbe, NCI Deputy Director of Data Science & Strategy
- **CRDC History, Current State & Lessons Learned**
 - Tanja Davidsen, NCI CBIIT



Vision for Cancer Data Ecosystem

Partnerships

- Data Generators
- Data Submitters
- Researchers of all technical abilities using the data
- NCI/NIH/HHS Collaborators & Policies
- Standards Bodies

Lower Barriers

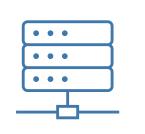
- Data submission
- FAIR data access, search, retrieval
- Data integration for cross-domain analysis
- Analysis tools, platforms, and workflows

Infrastructure

- Security and appropriate access for sensitive data
- Sustainable, reusable, and uniform architecture
- Plan for long term data storage and tool accessibility





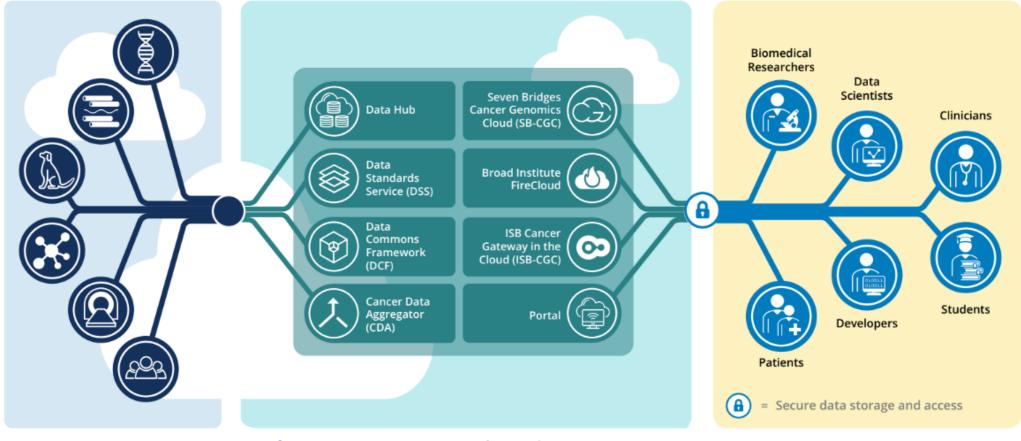








Cancer Research Data Commons (CRDC) *NCI's primary data science platform for cancer research*



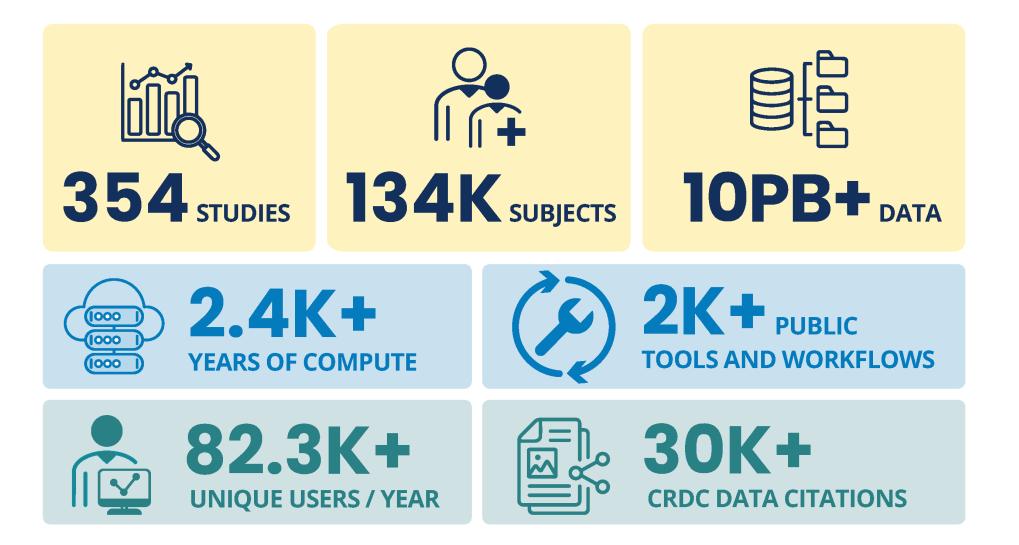
Data Commons Infrastructure & Cloud Resources

User Community

CRDC 10 Years in the Making



CRDC: Statistics & Impact



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AACR Cancer Research Series



A four-part invited series published online in March 2024 highlighting the CRDC's accomplishments from the past 10 years.

LESSONS LEARNED AND FUTURE STATE
RESOURCES TO SHARE KEY CANCER DATA
CLOUD-BASED ANALYTICAL RESOURCE

CORE STANDARDS AND SERVICES



Learn more about the series on the CRDC Website

CRDC History, Current State, & Lessons Learned

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10:30am–10:50am 20-minute Break



CRDC Success Stories

10:50am – 11:25am

Unlocking Research with CRDC and NCI Cloud Resources

• Esmeralda (Emi) Casas-Silva, NCI CBIIT

Bridging the Gap: Bioinformatics Pipelines for Non-Bioinformaticians

• Daoud Meerzaman, NCI CBIIT





NCI Programs Leveraging CRDC

11:25am – 12:25pm

CPTAC: Accelerating Cancer Research Through Multiomic Integration and Data Sharing

- Rajesh Thangudu, ICF
- **The cBioPortal for Cancer Genomics**
 - Nikolaus Schultz, MSKCC

Harnessing ICDC & PRECINCT Canine Immunotherapy Trials Network to Advance Discoveries in Cancer Genomics

• Deborah Knapp, Purdue University College of Veterinary Medicine 202

NIH NATIONAL CANCER INSTITUTE

12:25pm–1:25pm 60-minute Lunch Break



Artificial Intelligence (AI) and the CRDC

1:25pm – 2:10pm

Al and De-Identification for Medical Imaging within CRDC

• Granger Sutton, NCI CBIIT

Investigating CRDC AI Data Readiness

- Emily Greenspan, NCI CBIIT
- **AI Data Readiness Challenge**
 - Agnes McFarlin, Accenture



Future Spotlight

2:10pm – 2:50pm

NCI's Genomic Data Enclave: Lowering the Access Barrier with Chatbot

• Zhining Wang, NCI CBIIT

Data Fabrics for Public Health

 Alastair Thomson, APRA-H, Acting Director of Data Innovation



2:50pm–3:10pm 20-minute Break



Panel Discussion with NCI Partners

3:10pm – 4:20pm

Moderator

• **Dinah Singer**, NCI's Deputy Director for Scientific Strategy and Development

NCI Partners

- NCI CCG, Genomic DC Jean C. Zenklusen
- NCI DCCPS, Population Science DC Erin Siegel & Pothur Srinivas

qup

- NCI DCTD, CIP, The Cancer Imaging Archive Lalitha Shankar
- NCI DCTD, CTEP, NCTN Data Archive Meg Mooney
- NCI DCTD, DTP, Integrated Canine DC Connie Sommers
- NCI DCTD, OCCPR, Proteomic DC Xu Zhang

Close Out Tanja Davidsen, Ph.D.

