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For Collaborative Research<sup>SM</sup>

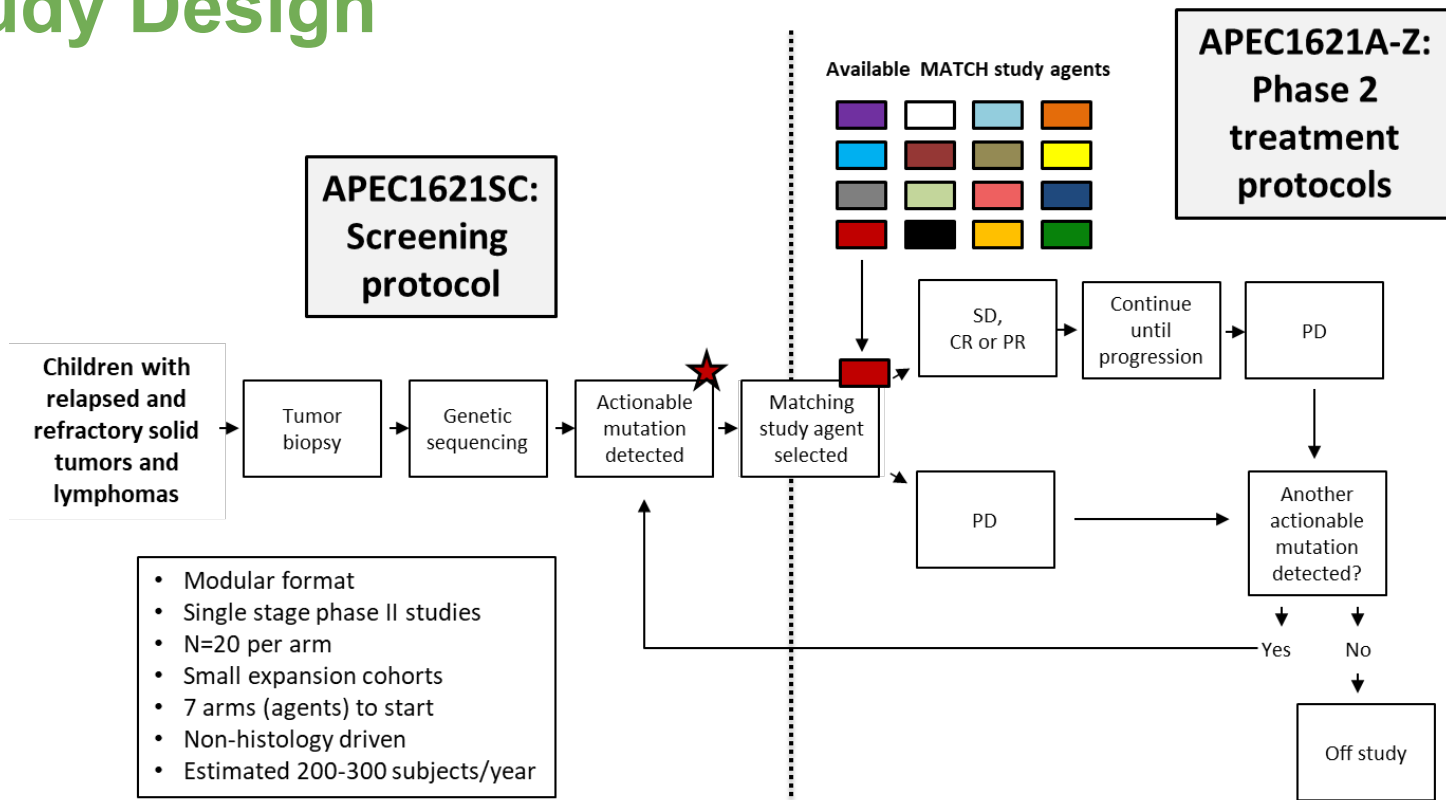
# Lessons from Oncology Master Protocols: Panel 1 - BeatAML

**Nita Seibel, NCI, NIH**

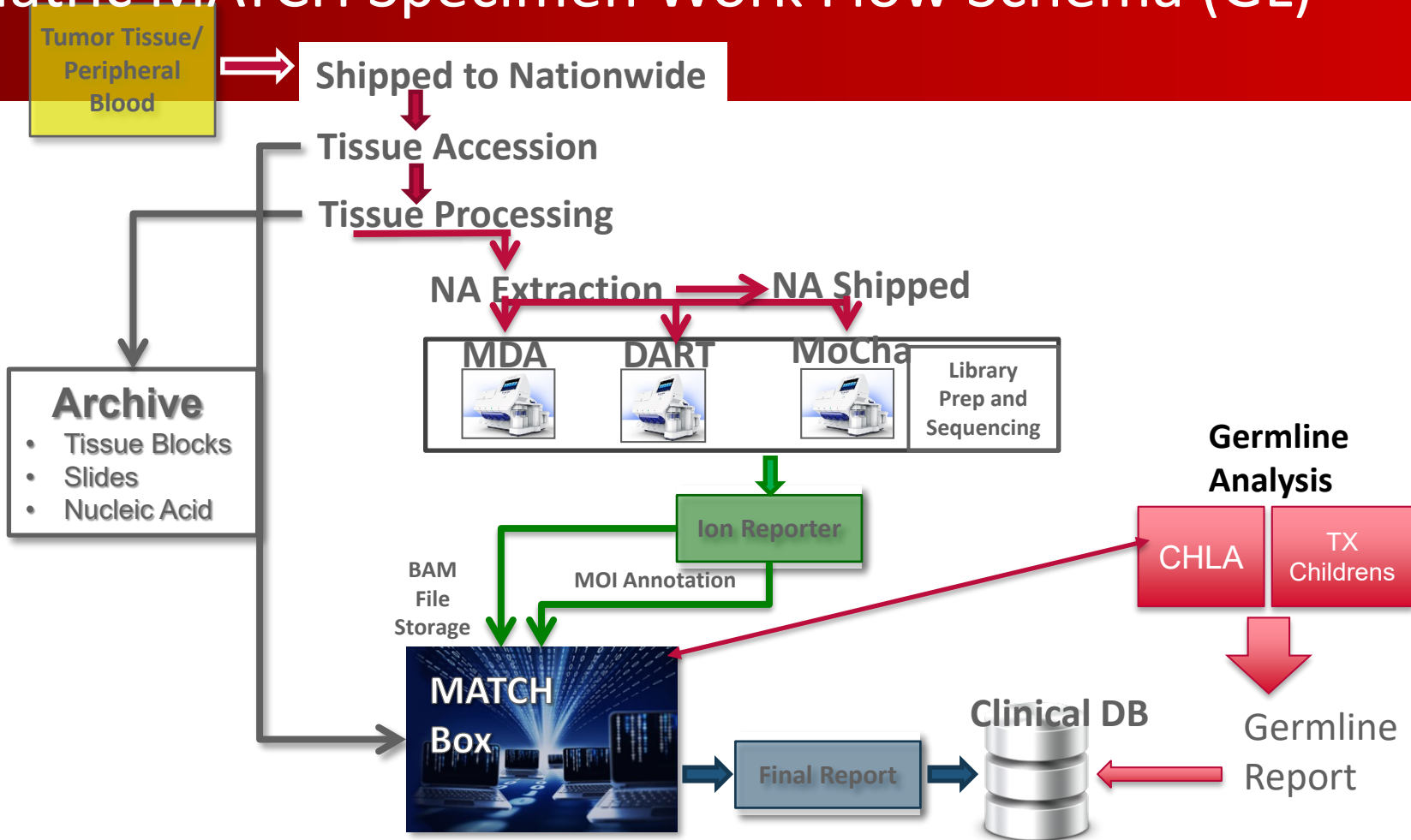
# NCI-COG Pediatric Molecular Analysis for Therapy Choice (MATCH) APEC1621 Study

A phase 2 precision medicine cancer trial  
Co-developed by the Children's Oncology Group and the National  
Cancer Institute

# Study Design



# Pediatric MATCH Specimen Work Flow Schema (GL)



# NCI Central Support for Pediatric MATCH Trial

- **Central Laboratories**- COG BioPath Center –QA and nucleotide extraction; 3 central laboratories (MoCha, Dartmouth, MD Anderson) for tissue analysis;
- **MATCHBox** - a data center that will provide data coordination, decision-making and communications
- All trials conducted under CTEP IND
- All agents brought in under CRADA
- CTEP provides scientific review of master protocol and substudies
- NCI-Pediatric CIRB is the IRB of record

# Challenges in Developing Pediatric MATCH

- Risk determination
- Analytical performance of assay on pediatric tissues
- Incorporation of germline testing and validation
- Process for interpreting germline results and sharing with families
- Specimen processing at NCH and incorporation within the lab system
- Agents available for treatment arms and formulations
- Developing Pediatric MATCHBox to support a new study design and workflow
- Approach to NY state regulations
- Standardizing procedures across labs
- Education and reassurance of advocates
- Managing expectations with families
- Timing with NCI-MATCH
- Efficient and timely PedCIRB protocol reviews
- Building a cohesive informatics team with multiple partners
- Protocol configuration

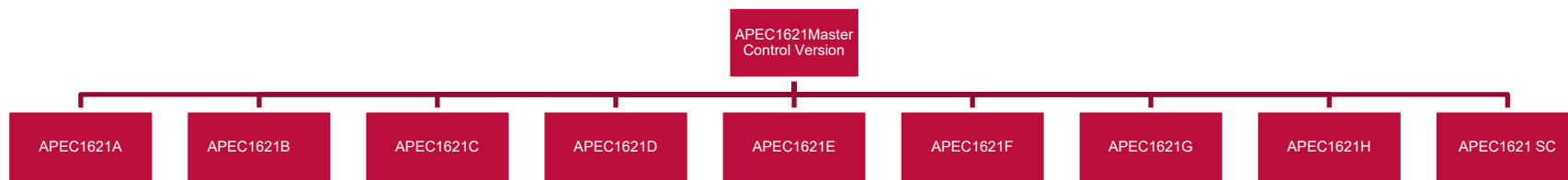


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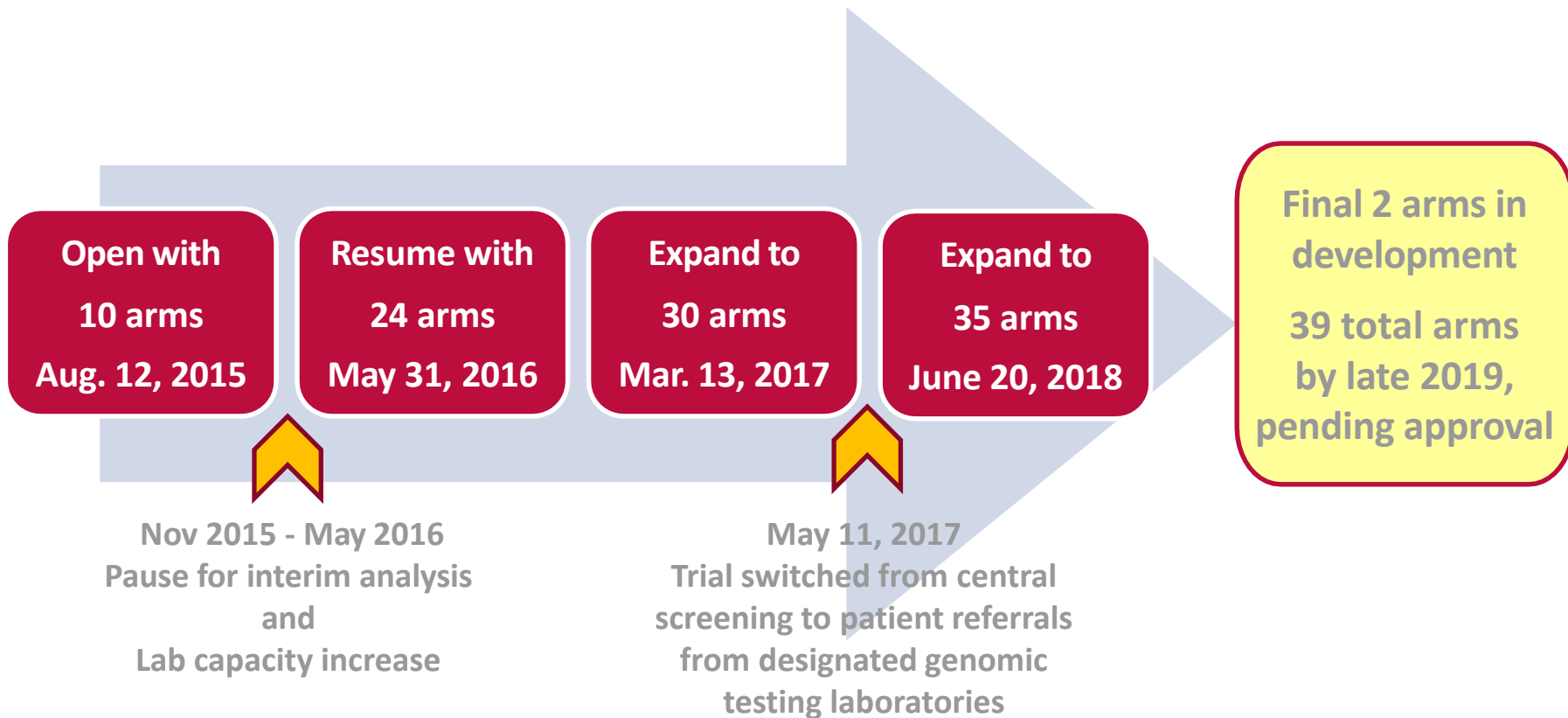
# Pediatric MATCH Protocol Configuration



- Non-histology driven
- Single IND held by CTEP
- Protocol review by Ped CIRB
- Single stage phase 2 studies
- N=20 per arm
- Small expansion cohorts
- Initially 7 arms, now up to 10



## Brief Timeline of NCI-MATCH Treatment Arms



# NCI Pediatric MATCH Subprotocols

Agent Class	aMOI Frequency	Agent	Subarm chair	Subprotocol ID
Pan-TRK inhibitor	2-3%	Larotrectinib	Katie Janeway	APEC 1621-A
FGFR inhibitor	2-3%	Erdafitinib	Alice Lee	APEC 1621-B
EZH2 inhibitor	2-3%	Tazemetostat	Susan Chi	APEC 1621-C
PI3K/mTOR	5-10%	LY 3023414	Ted Laetsch	APEC 1621-D
MEK inhibitor	10-20%	Selumetinib	Carl Allen	APEC 1621-E
ALK inhibitor	2-3%	Ensartinib	Meredith Irwin	APEC 1621-F
BRAF inhibitor	5%	Vemurafenib	Aerang Kim	APEC 1621-G
PARP inhibitor	2-3%	Olaparib	Julia Glade Bender	APEC1621-H

# NCI Pediatric MATCH Subprotocols In Development

Agent Class	aMOI Frequency	Agent	Subarm chair	Subprotocol ID	Status
CDK4/6	2-3%	Palbociclib	Rajen Mody	APEC 1621-I	Active
ERK 1/2 inhibitor	5-10%	Ulixertinib	Kieuhoa Vo	APEC 1621-J	Active
IDH1 inhibitor	1-2%	Ivosidenib	Elizabeth Alva	APEC 1621-K	Protocol in development
HRAS inhibitor	1-2%	Tipifarnib	Christine Pratilas	APEC1621M	Concept in development
RET inhibitor	1-3%	LOXO 292	Andrea Flynn	APEC1621N	Protocol in development