

Board of Scientific Advisors

NCI Experimental Therapeutics Clinical Trials Network (ETCTN) Project Period 3

Presenter, Percy Ivy, MD

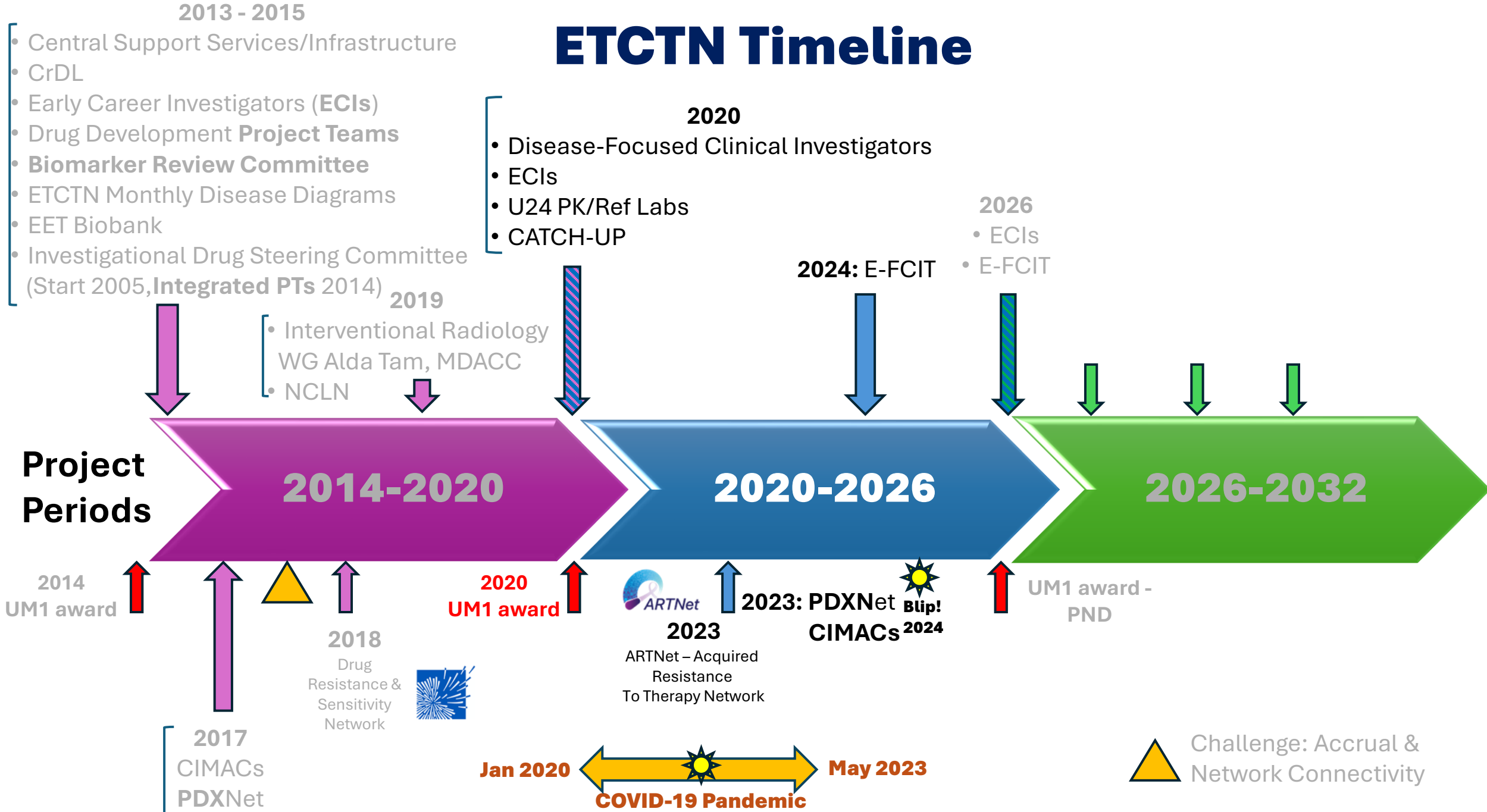
Program Director

Investigational Drug Branch

Cancer Therapy Evaluation Program

Division of Cancer Treatment and Diagnosis

ETCTN Timeline



What are the challenges or problems ETCTN faces?

- Need to establish the recommended phase 2 doses and schedules of investigational agents; and that they are accurate, safe, tolerable and pharmacodynamically optimal for single agents or combination therapy
- Lagging accrual in biomarker-driven or rare patient populations for early phase trials; how will team science help?
 - Lack of network wide operations offices with a statistical office to further facilitate the design, conduct, monitoring and analysis of clinical trials and coordination with central DSMB for the ETCTN.
- Underserved and underrepresented constituencies often do not have access to investigational and cutting-edge therapies

Goals of the Experimental Therapeutics Clinical Trials Network: Project Period 3 (2026-2031)

- **Science of clinical trial design, dose optimization and drug development of new cancer treatments**
- **Expand team science approaches in drug development including operations and statistical support**
- **Enhance accrual science applied to underserved/underrepresented communities in clinical trials**

ETCTN Program Organizational Structure

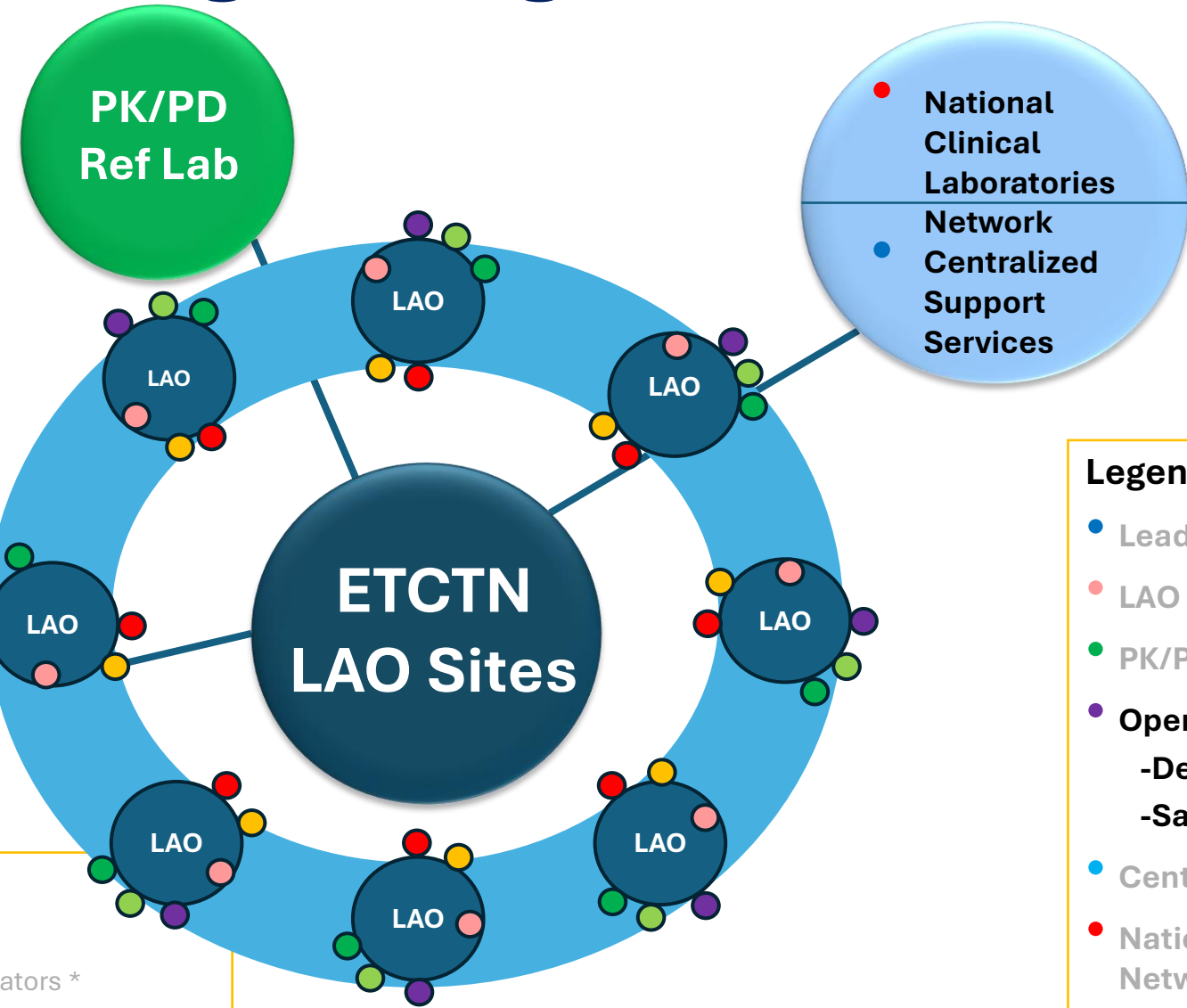
2 RFAs

- Up to 8 Lead Academic Organizations (LAOs in UM1)
- PK/PD Reference Lab (U24)

ETCTN Tumor Bank (EET)
 Funded under a separate U24 Grant by DCTD Cancer Diagnosis Program (CDP)

Specialized ETCTN Teams:

- CrDL investigators *
- Disease-Specific Clinical Investigators *
- IR/ClinPath WG *
- E-FCIT (Equity-Focused Clinical Investigator Teams)



National Clinical Laboratory Network (NCLN)

- Molecular Characterization (MoCha)(WES, RNAseq, ctDNA)
- PADIS (Assays-m IHC, Luminex)
- CIMACs
- Others

Legend:

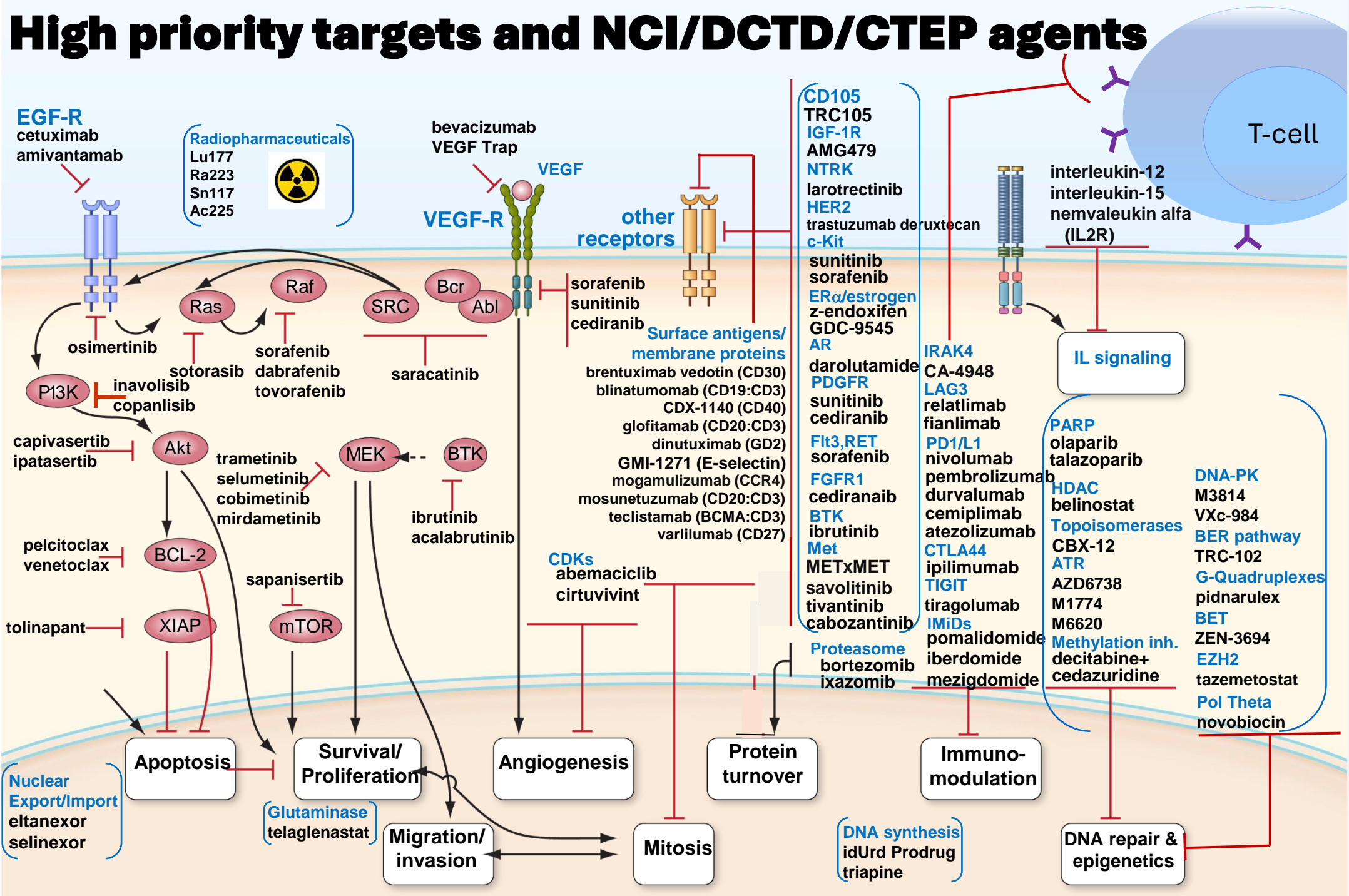
- Lead Academic Organizations (LAOs)
- LAO Consortium Membership (AO)
- PK/PD Reference Laboratory
- Operational/Statistical
 - Design, monitoring, analysis
 - Safety monitoring/DSMB
- Centralized support services
- National Clinical Laboratory Network
- ETCTN Tumor Bank (EET)

CTEP AGENTS

Broad range of agents addressing:

High priority targets and NCI/DCTD/CTEP agents

- Signal Transduction
- Cell cycle
- DNA Repair
- Apoptosis Modulation
- Epigenetic Targets
- Angiogenesis
- Immuno-modulation



Goals for the current Project Period 2 (2020-2026)

1. Compete more effectively for patients

- Encourage multiple PI applications
- At least one PI should be a Phase 1 investigator
- Identified key investigators responsible for **disease-specific** accrual; 4 for LAO and 2 for AO
- Partial salary support for each team member
- Performance criteria outlined in Terms of Award

2. Improve quality of biopsy specimens

- **Interventional Radiologist and Research Pathologist** for acquisition of high-quality specimens with partial salary support and performance criteria

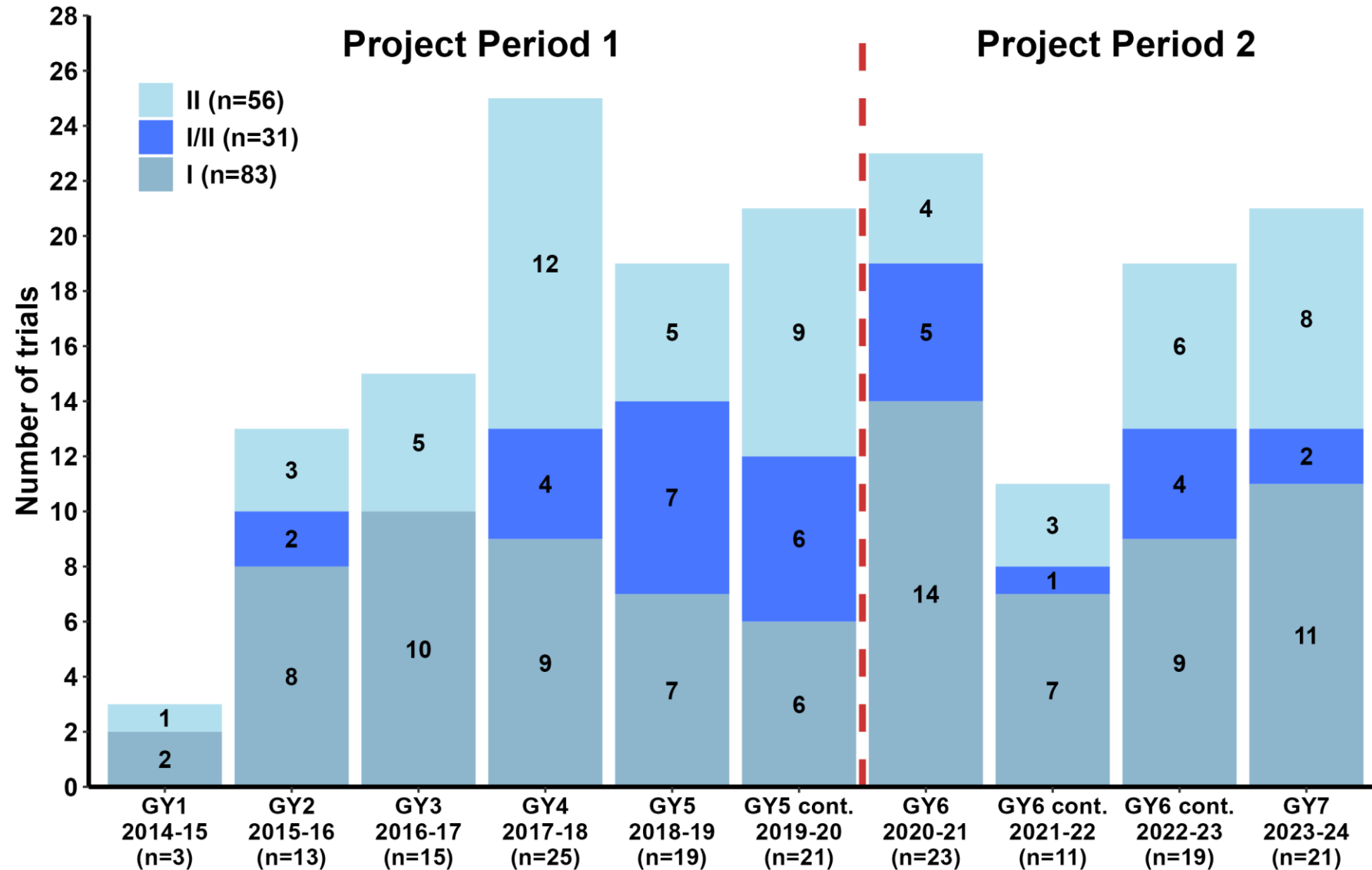
3. Enhance use of validated biomarker assays

- **Use of NCI resources: National Clinical Laboratory Network (MoCha, PADIS, CIMACs)** and Biorepository and accessioning center
- Scale back laboratory developed assays
- Develop PK/PD reference laboratories

I am going to review three major accomplishments

- Novel phase 1 and 1/2 combination studies
- Establishment and performance criteria for the use of biopsies and biomarkers
- One year budget supplement, CATCH-UP.2020 for patient populations with limited access to cutting edge and investigational therapies
- All remaining accomplishments are provided in the backup slides

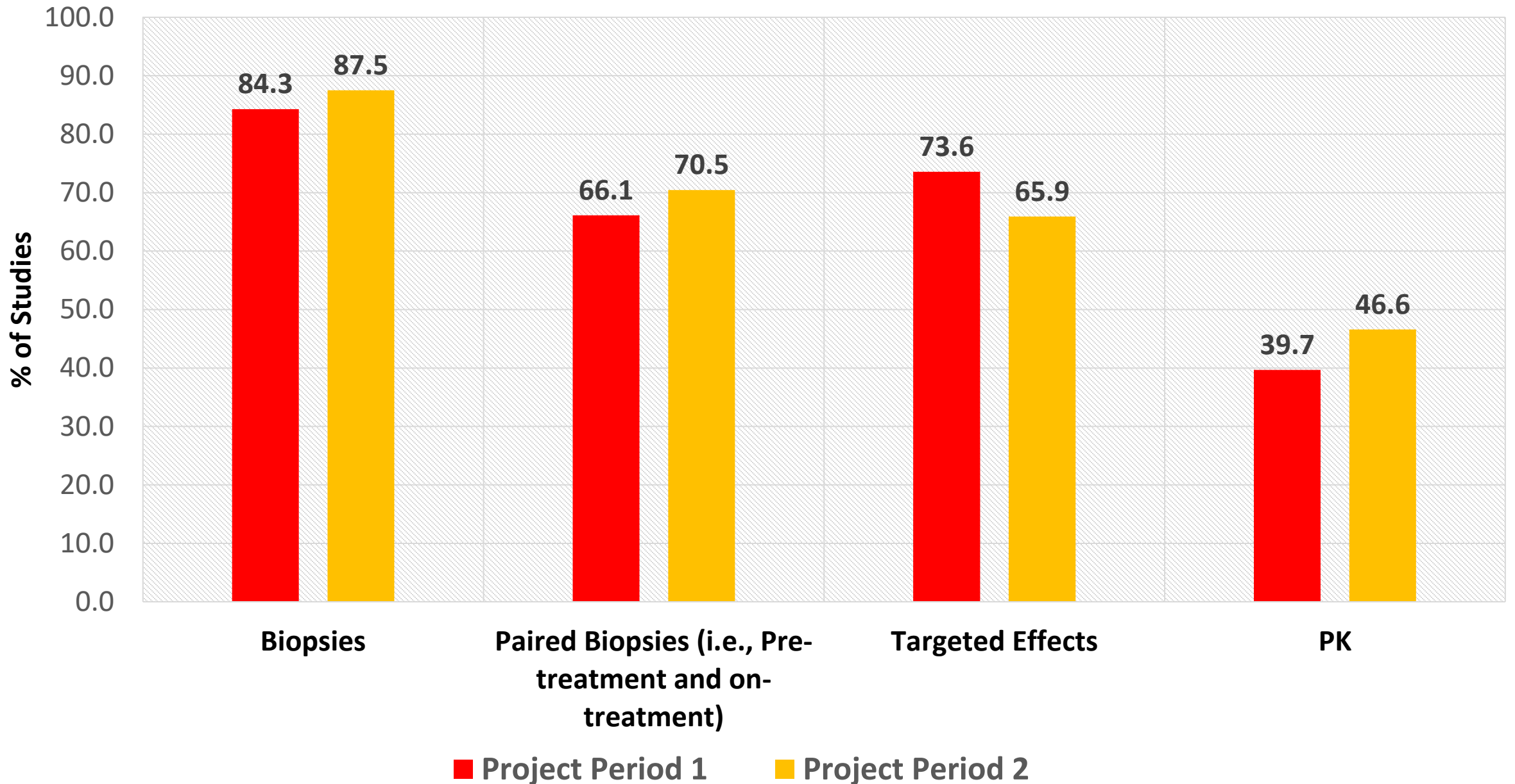
ETCTN Phase 1 and 1 / 2 novel combination studies (170)



ETCTN Accomplishments-Project Period 2

- **New agent development**
 - Evaluate new molecular entity
 - First in human, combinations and studies demonstrating activity
 - Immuno-oncology agents
- **Early Career Investigators increased from 27 (26% of all protocols) to 40 (45 % of all protocols)**
- **Biomarkers and biopsies**
 - **Codified** the use of biomarker assays- technically & clinically validated; fit-for-purpose; NCLN
 - Uniformly **categorized** the **types of biomarkers** used in early clinical trials- integral, integrated, exploratory
 - **Defined** when optional vs. mandatory biopsies are performed based on biomarker type
 - **General metrics improved**

Biomarkers and Biopsies in ETCTN Studies (109 trials)



CATCH-UP.2020 :

Preliminary work to enhance accrual of underserved/ underrepresented patient populations (UUPPs) to ETCTN clinical trials

- Congressional budget line item-mandated supplement in 2020 to **NCI Cancer Center Support Grants to accrue underserved populations to ETCTN trials**
- 24 accruals/site; **at least 50% must be underserved patients** (access, barriers & familiarity with health care delivery system)
- One year of funding; *VERY SHORT TIMELINE*

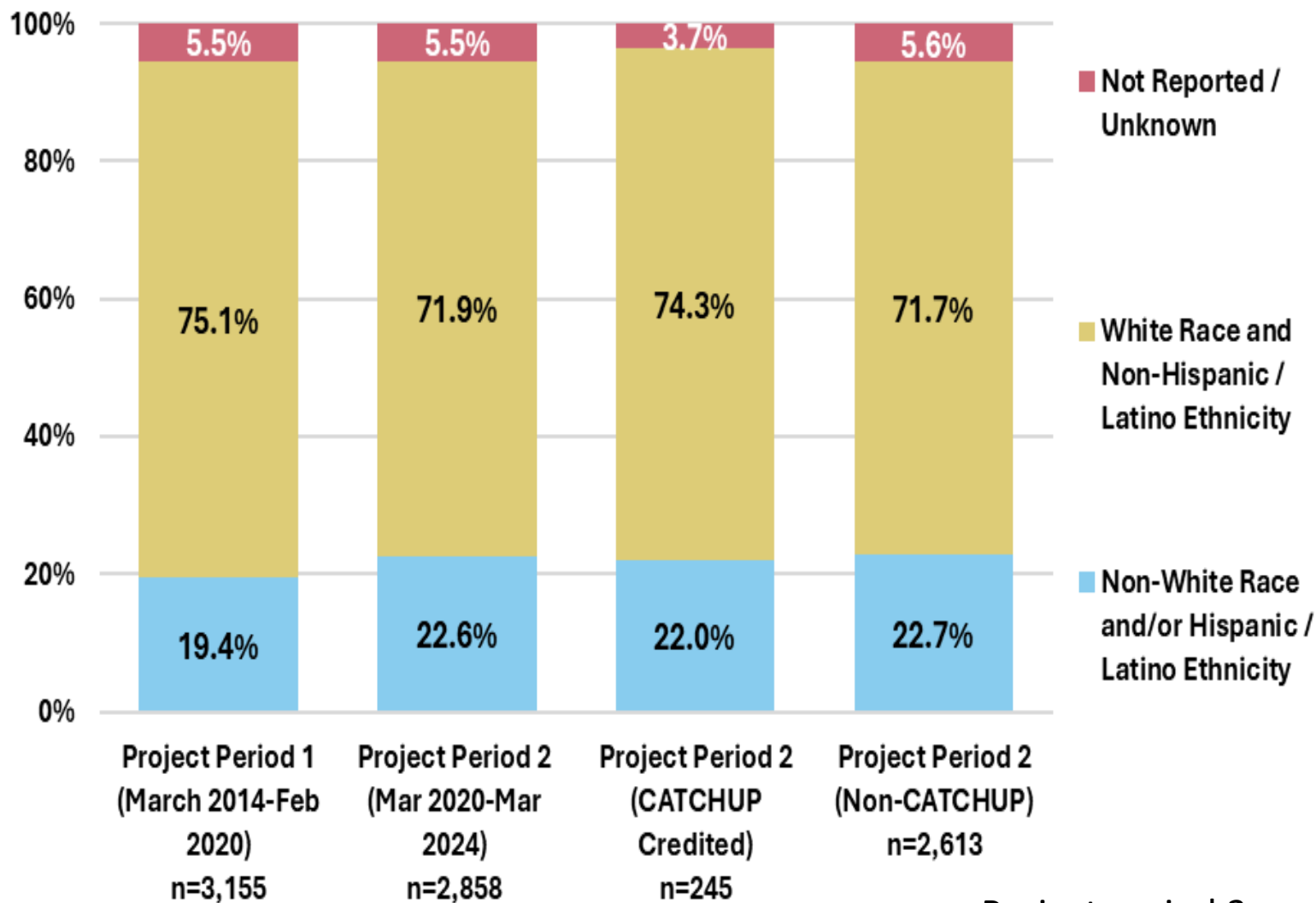
Centers	Trials activated (in 1-2 months)	Screened patients	Enrolled patients	% underserved / underrepresented
8	111	571	373	51%

- **Best practices established:** *1) motivated investigators, 2) work with Community Outreach Offices, 3) patient navigators/ community immersion, 4) telemedicine & 5) genomic data screening.*

Equity-Focused Clinical Investigator Teams

- Building on CATCH-UP success and **using best practices** and lessons learned
- ETCTN UM1 supplements:
 - **Absorb highest performing CATCH-UP centers into LAOs**
 - Yale- U. Kansas
 - JHMI- Wake Forest
 - Princess Margaret: U Miami
 - UPMC: UC Irvine
 - Enable these sites to **develop additional teams** under CATCH-UP “parent”
- Establish **E-FCIs in LAOs** which did not absorb CATCH-UP sites
 - DFCI

ETCTN accrual by race and ethnicity- current Inclusion /Enrollment



Project period 3 goal is to increase to 25-30%

ETCTN External Program Review Overall Assessment

-Melding of innovative, novel therapeutics through NExT with the NCI's broad clinical/translational infrastructure is a winning combination; curating the NCI CRADA-based portfolio is a critical success factor

- Reviewers responded positively to all questions, thought the program achieved its goals, and provided additional input for future endeavors.
- Vibrant and healthy ETCTN program with a rich historical legacy training generations of oncology drug developers
- Program needs to continue and evolve for the benefit of future generations
- Thoughtful , high impact clinical and translational trials advancing the field of drug development

Recommendations/Concerns from External ETCTN Review

Clinical trial design

- **Conduct trials focused on dose optimization and tolerability**
- **Biomarker enriched clinical trials** that are hypothesis driven, labor and resource intensive (70-80% obtained paired biopsies, analysis ongoing)
- **Use of adaptive trial designs ((i. e., non-3+3) phase 1 dose escalation designs, possible basket studies** and use of PROs)
- Extensive resources invested by NCI and organizational structure **leveraged for impactful clinical trials will require increased funding for ongoing high performance**
- Enrollment of **underserved/underrepresented patient populations**
- **Accrual productivity, mentorship** for enthusiastic/motivated **early career investigators (ECIs)**
- Succession planning for ECIs for all UM1 grants

Proposed Budget for ETCTN Project Period (FY2026-2031)

ETCTN Program Component	Clinical Trials	Awards	Years	Proposed Annual Budget Total Cost (in millions)	% Change from Prior Project Period
ETCTN Lead Academic Organizations (LAOs) –with Ops & Stats UM1: Up to 8 awards	YES	≤8	6	\$15.2	Increase of 10%
ETCTN PK/PD Core Research Laboratories – U24: 1 award	NO	1	6	\$1.068	No change
ETCTN Administrative Supplements	YES	~	6	\$0.60	Reduction of 60%
Contract Funding: Centralized support services from multiple NCI contracts	NO	Multiple	Multi-year	\$4.24	Increase of 112%
Overall ETCTN Program: Flat budget, incr. from ~\$18.4M currently				\$21.108	Increase of 15%

Justification:

-UM1s/LAOs: Inflationary increases, reimbursement for biopsies, increased infrastructure/FTEs, workload and reporting requirements to CT.gov; Outreach to UUPPs, accessibility/ availability; support for 2+ senior co-PIs (UUPPs, Stats, Ops); NCI 11% incr. salary cap; accrual up to 700-800 patients annually.

-Contracts: ETCTN receives regulatory, safety & monitoring support for drug development, contracting costs rise at ~4%/yr. inflation(7-8% during the pandemic) ,maintain level of support; and new services (assisted protocol writing, early phase central IRB, Gov-sponsored DSMB, data management, auditing, RAVE protocol build, IROC budgets, etc.) CTSU may be able to support infrastructure and Ops & Coordination Center + Statistical Office need, coordination UM1 LAO and DSMB is a new task

-Overall, A flat budget is requested for the 6 years of the funding cycle (2026-2031). No COLA. a 15% increase in annual funding compared to the previous cycle is justified & requested.

Thank You



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