Accelerating Medicines Partnership Gene Therapy



August 26, 2020



Co-Leads:

Peter Marks, MD, PhD (CBER/FDA) PJ Brooks, PhD (NCATS/NIH) Gopa Raychaudhuri, PhD (CBER/FDA) Seng H. Cheng, PhD (Pfizer) Accelerating Medicines Partnership in Gene Therapy (AMP GT) - Program Plan and Partnering Webinar



General Goals

- Review and understand the scope, design, impact and deliverables of the AMP GT Program
- Understand the pre-competitive partnership opportunities to address the limited access to gene therapy for populations affected by ultra-rare diseases

The webinar is being recorded for archival purposes

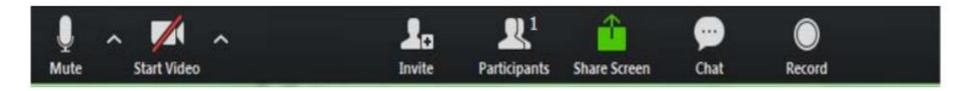
• Slides will be made available following the Webinar



Zoom Housekeeping Notes



Please mute yourself when not talking to reduce background noise. (You will be muted upon entering by the host, unless you're a speaker.) The mute/unmute button is on the task bar on the bottom to the far left.



Please submit your questions and comments using the "chat" feature. We will use these responses during the Q&A at the end of the primary program sessions. Please be sure to send your chat to "everyone."



Today's Presenters





Today's Agenda

- 11:30 AM 11:35 AM Introduction and Webinar Overview
- 11:35 AM 11:45 AM Session 1: FNIH and the Accelerating Medicines Partnership
- 11:45 AM 12:45 PM Session 2: The AMP Gene Therapy Program
- 12:45 PM 1:05 PM Q&A
- 1:05 PM 1:15 PM Session 3: Communications and Partnering Opportunities
- 1:15 PM 1:25 PM Q&A
- 1:25 PM 1:30 PM Ongoing Actions, Timelines and Next Steps





Session 1

FNIH and the Accelerating Medicines Partnership





FNIH

Who are we? What do we do? How we achieve it?

AMP

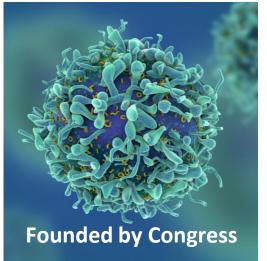
What is AMP? How did we get here?



About the FNIH



The mission of the Foundation for the National Institutes of Health (FNIH) is to support the mission of the NIH. The FNIH creates and leads alliances and public-private partnerships that advance breakthrough biomedical discoveries and improve the quality of people's lives.



The FNIH was created by Congress in 1990 as a not-for-profit charitable organization. The Foundation began its work in 1996 to facilitate groundbreaking research at the U.S. National Institutes of Health (NIH) and worldwide.



- Attract and share resources
- Enable insight and innovation
- Establish standards
- Distribute expertise
- Create consensus
- Drive competitiveness in marketplace
- Disseminate knowledge
- Enhance credibility
- Reduce costs
- Support training & education
- Manage complexity



7

By the Numbers





raised to date

\$0.90 o

\$1.2B

of every dollar spent directly supports programs

programs supported since inception

124

17

active research partnerships, scientific education/training, conferences/ events, capital programs

years of "exceeds or meets industry standards" rating by Charity Navigator



Select FNIH Partnerships

•	Accelerating Medicines Partnership NIH (OD), NIA, NIAMS, NIDDK, NINDS, 12 companies, 10 not-for-profit organizations	\$302 million
•	Partnership for Accelerating Cancer Therapies NCI, PhRMA, 12 pharmaceutical companies	\$220 million
•	Grand Challenges in Global Health (GCGH) Bill & Melinda Gates Foundation	\$201 million
٠	Alzheimer's Disease Neuroimaging Initiative (ADNI) NIA, NIBIB, 25+ companies, 3 not-for-profit organizations	\$148 million
٠	The Biomarkers Consortium FDA, NIH, CMS, PhRMA, BIO, pharmaceutical and nutrition companies, not-for-profit organizations	\$95 million
•	LungMAP: Master Lung Protocol Trial NCI (SWOG), FDA, Friends of Cancer Research, 10 companies to date	\$40 million
•	Helping End Addiction Long-Term (HEAL) Partnership Committee	\$0.4 million



The Accelerating Medicines Partnership





AMP Overview and Scope

- NIH partnered with FNIH, FDA, 10 biopharmaceutical firms, multiple non-profits (including patient advocacy groups), to:
 - Increase the number of new diagnostics, therapies
 - Reduce time, cost of developing them
- Investing >\$350M in four projects (5-year initial commitment):
 - Alzheimer's disease (launched in 2014)
 - Type 2 diabetes (2014)
 - Rheumatoid arthritis/Lupus (2014)
 - Parkinson's Disease (2018)
 - Schizophrenia (Sept 2020)
- Project management provided by FNIH

Developing continuing (2.0) programs: AD Common Metabolic Disease (CMD) and Autoimmune and Immune-Mediated Diseases (AIM) New program: Gene Therapy







Alzheimer's Disease

abbvie

gsk

Biogen

National Institute

National Institute of

Neurological Disorders

on Aging

and Stroke

FDA U.S. FOOD & DRUG



Type 2 Diabetes

Janssen

MERCK

SANOFI 🌍

National Institute of

Diabetes and Digestive

and Kidney Diseases





Takeda

Advancing Treatment Finding Cures

Bristol-Myers Squibb

Pfizer SANOFI

National Institute of

and Skin Diseases

Arthritis and Musculoskeletal



Parkinson's Disease

Celgene

verily

gsk

Phzer

SANOFI 🌍

National Institute

National Institute of

Neurological Disorders

on Aging

and Stroke

ADMINISTRATION

FDA

U.S. FOOD & DRUG

Industry members

Government members

Non-profit members



NIH





Arthritis Foundation Rheumatology Research Foundation

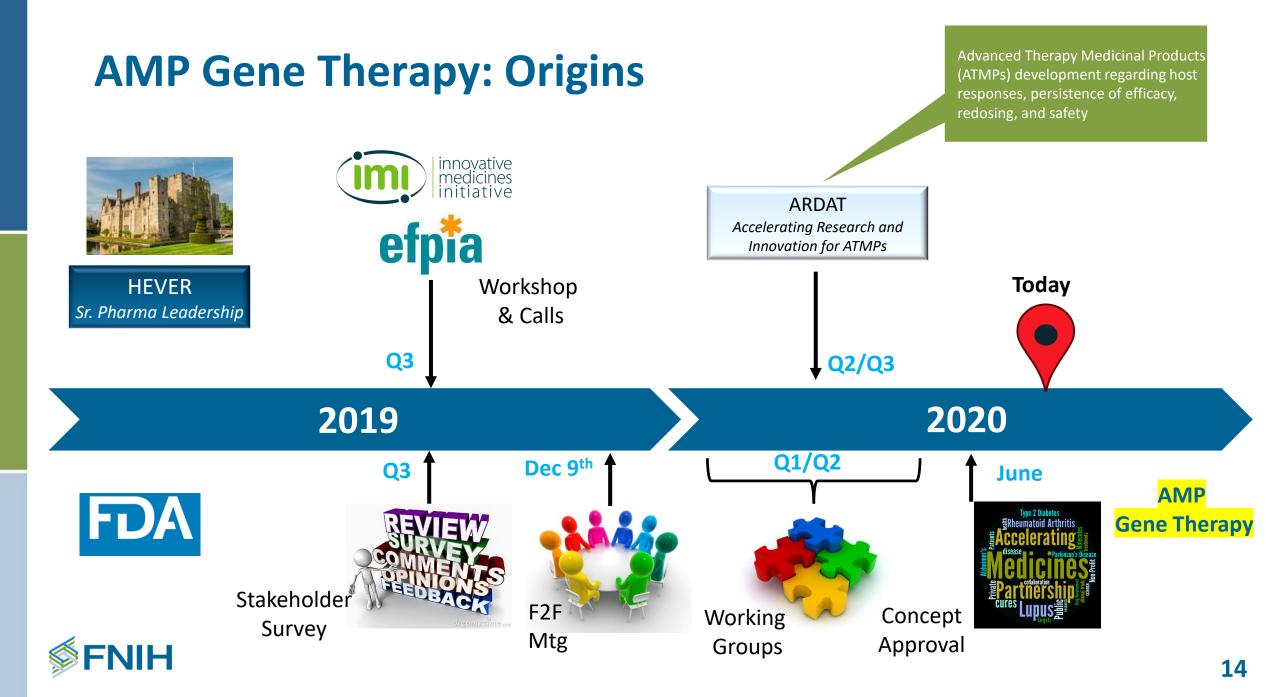




Operating Principles of AMP

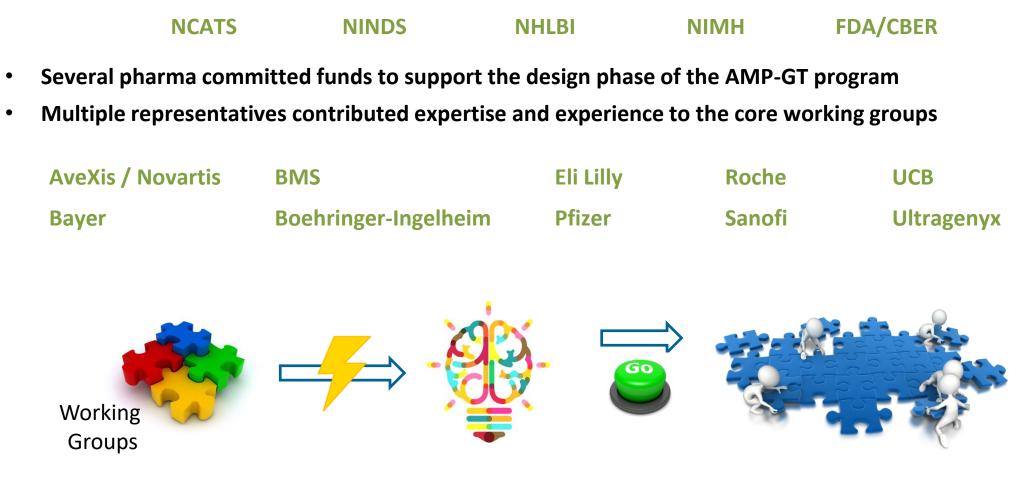
- **Simple governance:** Steering Committees under an overall Executive Committee
 - Steering Committee leadership by nominated co-chairs one industry, one NIH or Academic
 - Firm rules on funding equity, in-kind contributions
 - Project management by FNIH to minimize overhead
- Tight management of deliverables and timelines: Concrete interim deliverables with go/no go on next phases based on interim findings
- Industry engagement: Participants ensure focus is on relevant, translatable research and provide contributions in-kind (e.g., relevant data)
- Patient advocacy groups and foundations: Ensure perspectives and needs of the disease patient populations contribute to project design and ongoing execution
- **Data Sharing:** Findings shared broadly and quickly, in the interest of patients and the public health
- **Pre-Competitive:** No pre-emptive patenting; broadest possible opportunity for commercialization



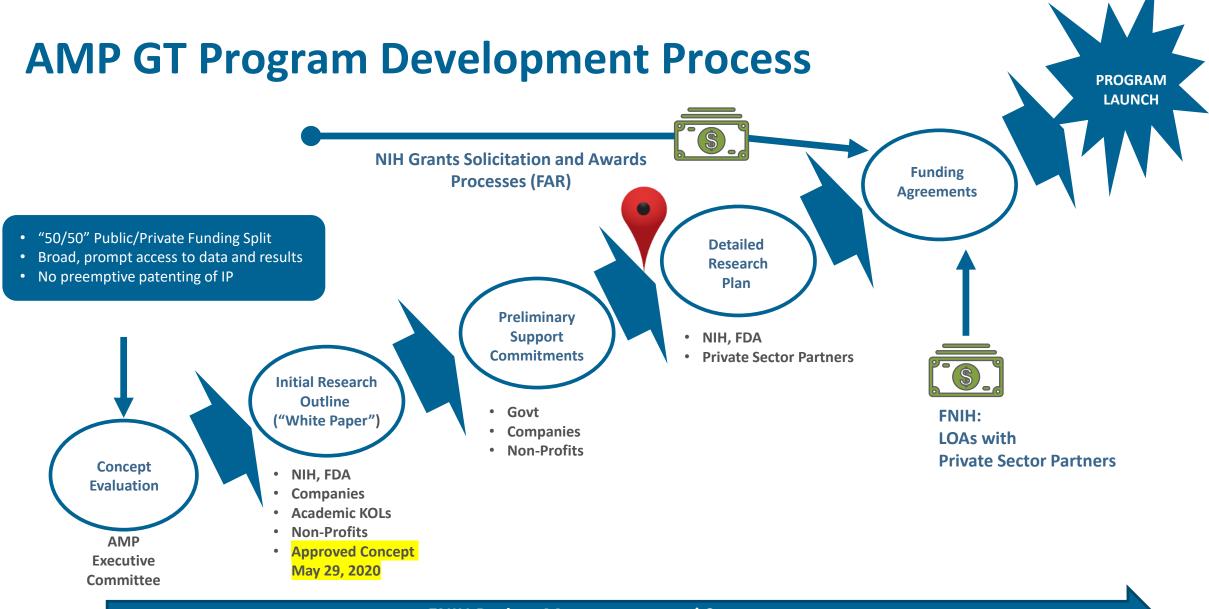


Engaged Partnership with Strong Potential for Support

• Strong involvement and leadership from multiple NIH ICs, FDA & leading academic KOLs and Institutions







FNIH Project Management and Support



Session 2

The AMP Gene Therapy Program (AMP GT)

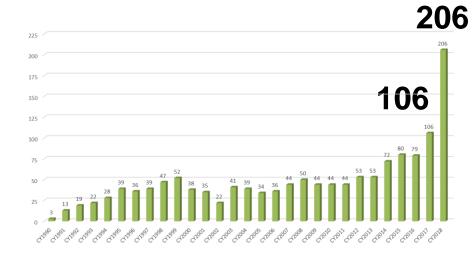
Variation on a Theme

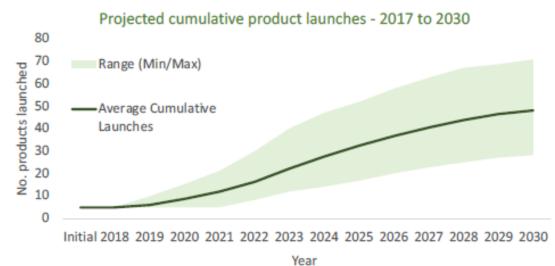




Increased Activity in Gene Therapy

Number of IND applications to FDA is increasing noticeably and there are over 900 active INDs as of Dec 31, 2019





Correlates with prediction of 40 to 60 product launches and more than 500,000 treated by 2030



Approved Gene Therapies

United States

- Tisagenlecleucel (2017)
- Axicabtagene ciloleucel (2017)
- Voretigene neparvovec-rzyl (2017)
- Onasemnogene abeparvovec-xioi (2019)

European Union

- Autologous CD34+ enriched cell fraction that contains CD34+ cells transduced with retroviral vector that encodes for the human ADA cDNA sequence (2016)
- Tisagenlecleucel (2018)
- Axicabtagene ciloleucel (2018)
- Voretigene neparvovec-rzyl (2018)
- Autologous CD34+ cells encoding βA-T87Qglobin gene (2019)

Alipogene tiparvovec (approved 2012, withdrawn 2017)



Challenges of Individualized Therapies

- Manufacturing •
- Nonclinical development •
- **Clinical development**
- **Product access** lacksquare



Can leveraging validated processes facilitate the development of new products?

Approximate Treatment **Population Per Year**

20

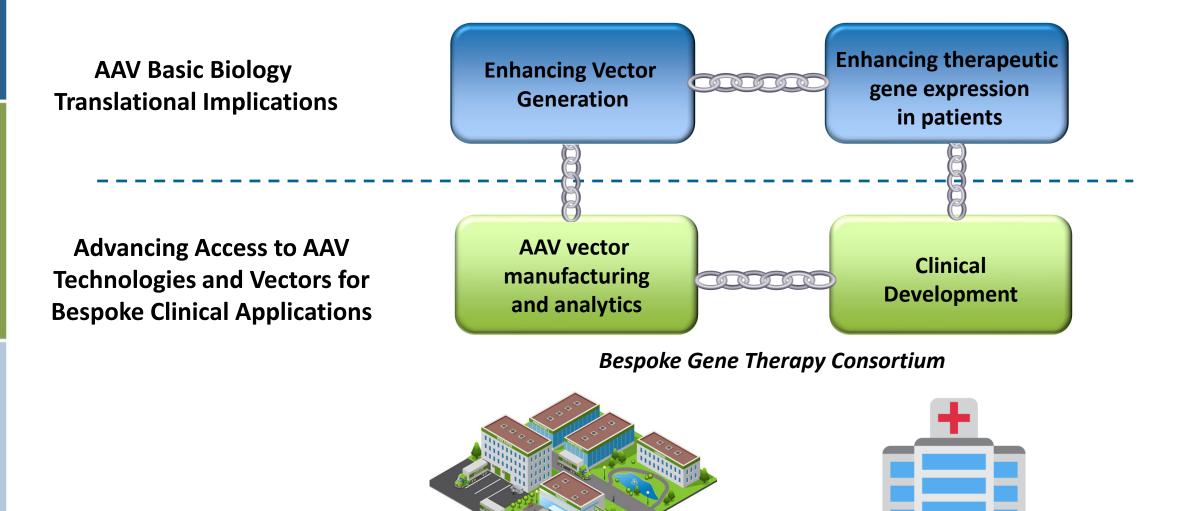
FDA

Benefits of AMP GT Partnership

- Makes adeno-associated virus (AAV) technology more accessible to a broader range of diseases
- Potential to streamline preclinical and product testing
- Facilitates scientific advances that will ultimately benefit entire field
- Bring therapies to all individuals in need sooner



Accelerating Medicine Partnership – Gene Therapy



AAV Basic Biology Working Groups

Vector Generation

Chris Frye
P. J. Brooks*
Deanna Portero
Chris Boshoff
Dimitris Papanicolaou
Otmane Boussif
Samih Yagmour
Tim Charlebois*
Markus Haindl
Karen Vincent
Marrah Lachowicz-Scroggins
Emmanuel Adu-Gyamfi
Bettina Buhring
Enrique Michelotti
Ingo Gorr
Onur Kas
Tal Kramer

Eli Lilly NIH/NCATS NIH/NCATS NIH/NINDS Novartis Novartis Novartis Pfizer Roche Sanofi NIH/NHLBI FDA/CBER NIH/NIMH NIH/NIMH **Boehringer-Ingelheim** UCB UCB

Gene Expression

Udo Maier* Feng Pan Zhuo Cheng P. J. Brooks* **Deanna Portero Jill Morris Dimitris Papanicolaou Otmane Boussif Samih Yagmour** Suryanarayan Somanathan **Joseph Rabinowitz* Andreas Schaubmar Catherine O-Riordan** Pankaj Qasba **Bettina Buhring Enrique Michelotti Onur Kas Tal Kramer**

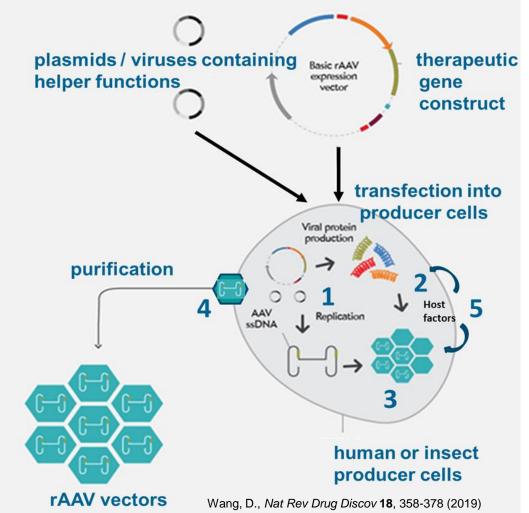
Boehringer-Ingelheim Eli Lilly Eli Lilly NIH/NCATS NIH/NCATS NIH/NINDS Novartis Novartis Novartis Pfizer Pfizer Roche Sanofi NIH/NHLBI NIH/NIMH NIH/NIMH UCB UCB



Advancing the Understanding of AAV Biology

A. ENHANCING VECTOR GENERATION

- 1. Viral genome replication and processing for virion packaging
- 2. Capsid production and assembly
- 3. Packaging of viral genome to generate productive viruses
- 4. Transport and release of virus
- 5. Host factors that influence the process of viral generation

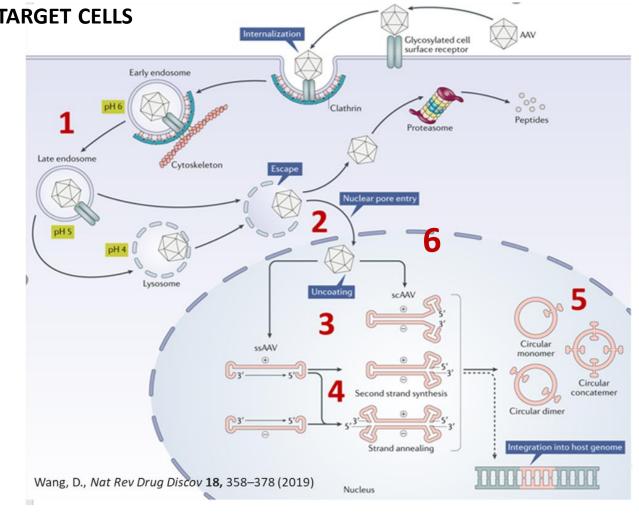




Advancing the Understanding of AAV Biology

B. ENHANCING THERAPEUTIC GENE EXPRESSION IN TARGET CELLS

- 1. The endosomal state of the AAV virion
- 2. Trafficking to the nucleus
- 3. Uncoating in the nucleus
- 4. Second strand synthesis
- 5. Concatemerization of the viral genome
- 6. Post expression events

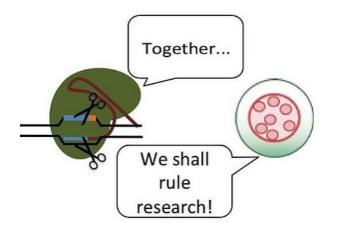




Proposed Approach to Advancing AAV Biology

Strategy:

- Support high throughput functional genomic approaches and targeted funding opportunities:
 - Assays for each step in AAV vector production and gene expression in target cells amenable to high-throughput screening (HTS)
 - Whole genome screening using siRNA, CRISPR
 - Library of approved drugs
 - Possibly using NCATS facility as a central testing site
 - Focused funding on specific questions that may not be covered by HTS approaches



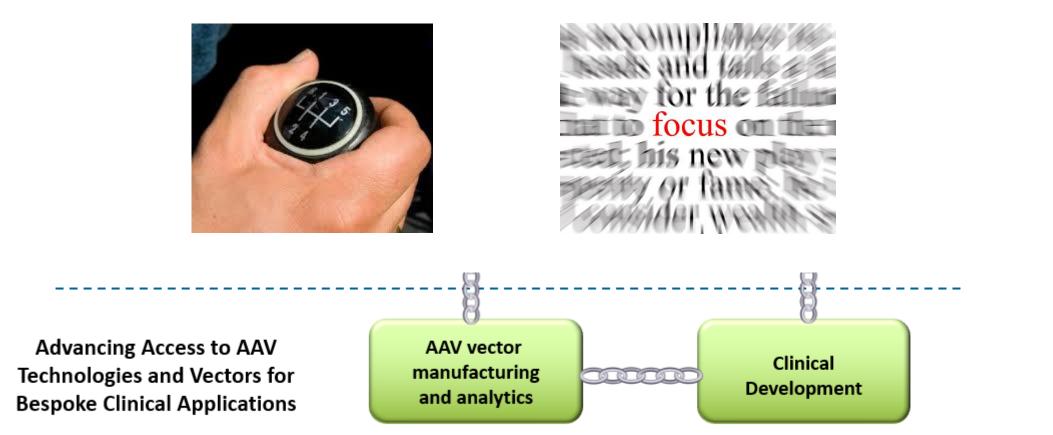


Key Role of Gene Therapy Partners in AAV Biology

- Prioritize and weight questions and primary focus
- Shape the format and process for sharing results
- Continuous guidance of the research through periodic review of project(s)
- Suggest innovation to BGTC pilot program



Focus on the Bespoke Gene Therapy Pilot Program



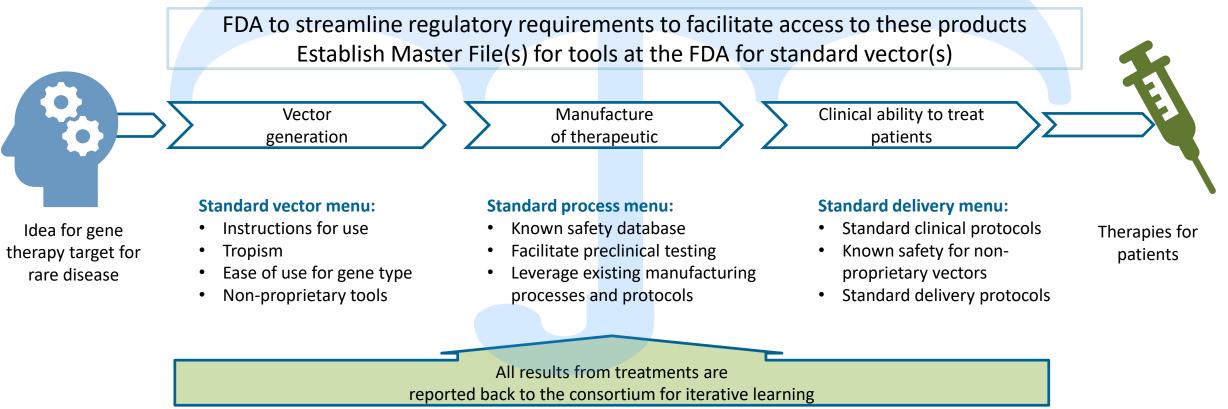
Bespoke Gene Therapy Consortium



Bespoke Gene Therapy Consortium (BGTC)

Non-profit umbrella organization

- Provide facilities for vector generation
- Central facility for small batch manufacture
- Improve manufacturing efficiency
- Facilitate out-licensing if appropriate



Proposed Approach to Advancing Access by the Bespoke Gene Therapy Consortium

Strategy:

- Address the needs of getting a simple AAV generation/production manual (Maniatis for Gene Therapy) by coordinating and harmonizing the production of a set of vectors and processes that will allow rapid timelines and cost-effective delivery for the future:
 - Run 5-6 pilot projects for diseases with different prevalence, vector dose requirements, routes of administration (iv, it, subretinal)
 - Limited number (± 3) different AAV vector serotypes in the pilot
 - An algorithmic approach to identify appropriate target diseases by analysis of existing (and future) databases
 - Define and standardize vector quantitation, toxicity testing and lot release assays, in coordination with industry and academic manufacturers



BGTC Working Groups



Mfg & Analytics

Peter Marks* P. J. Brooks* Gopa Raychaudhuri* Jude Samulski **Tim Charlebois** Samih Yaghmour Kelvin Lee **Barry Byrne Bettina Buhring Enrique Michelotti** Deanna Portero **Richard Synder** Sandy MacCrae **Chris Boshoff** Jill Morris Laetitia Malphettes **Stefanos Grammatikos Onur Kas** Maen Qadan **Chris Frye** Scott May

FDA/CBER NIH/NCATS FDA/CBER University of North Carolina Pfizer Novartis/Avexis NIIMBL University of Florida NIH/NIMH NIH/NIMH NIH/NCATS Thermo Fisher Sangamo Therapeutics NIH/NINDS NIH/NINDS UCB UCB UCB Eli Lilly Eli Lilly Eli Lilly

Clinical Development

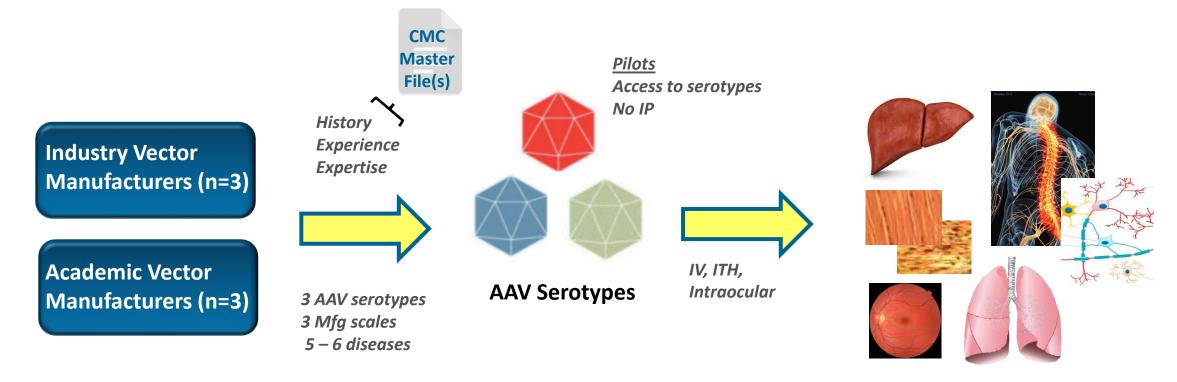
P. J. Brooks* **Beverly Davidson* Cheryl McDonald Deanna Portero** Kevin A. Strauss Yael Weiss **Steven Gray Enrique Michelotti Bettina Buhring** Peter Marks Gopa Raychaudhuri **Rachel Sher** Vanessa Boulanger **Chris Boshoff Jill Morris** Khara Ramos Johannes Streffer Marina Braun Marcel Brink Maen Qadan **Chris Frye** Scott May

NIH/NCATS CHOP NIH/NHLBI NIH/NCATS **Clinic for Special Children** Ultragenyx UT Southwestern NIH/NIMH NIH/NIMH FDA/CBER FDA/CBER NORD NORD NIH/NINDS NIH/NINDS NIH/NINDS UCB UCB UCB Eli Lilly Eli Lilly

Eli Lilly

≶FNIH

Strategy to Leverage Existing Expertise and Capacity to **Manufacture Gene Therapy Product for the Pilots**



Target Tissue & Disease







Vector Manufacturing

- Manufacturer would prepare and test vector supplies for both preclinical/tox and clinical use
- Provide sufficient quantity of vector to supply treatment for clinical trial
 - $\,\odot\,$ Clinical indication matched and agreed upon in advance
 - Considerations: capacity, timelines, dose/patient, # of patients, storage stability → vector requirements met by one or two successful batches at the specified scale
 - ➢ 0-100 doses for intravenous administration (10¹⁵ vg/dose)
 - 0-100 doses for intrathecal administration (10¹⁴ vg/dose)
 - > 0-100 doses for intraocular injection (10¹³ vg/dose)
- Manufacturer will supply vials (NIH to provide final labelling) and certificate of analysis (C of A)
 - No drug substance supply to be maintained (for simplicity)

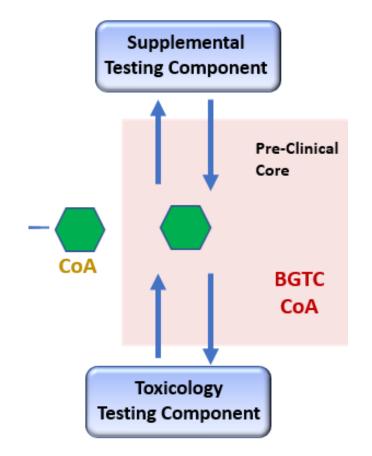
Exploring Partner ability and willingness to manufacture and supply clinical vector as in-kind support for the pilot project



Ongoing discussions with potential partners

Release Testing and Specifications

- Identify critical attributes that must be evaluated
 - Examples: Vg titer, purity, capsid identity and concentration, full:empty, potency, endotoxin & sterility
 - Provide scientific rationale and justification for why these tests are most critical
 - Consider what may be leveraged from the manufacturer's experience with the reference product, and whether reduced testing can be considered (scientifically justified) based on past experience/data
- Provide description of tests to be performed by the manufacturer (or Supplemental Testing Component, where applicable)





Assay Standardization and Harmonization

- Overall goal is to standardize testing, where possible
 - $\circ~$ One specific goal is to standardize testing for vector copy number
- Current Perspectives
 - Manufacturers will test vector using their existing processes
 - Industry and academic manufacturing partners may need additional support to fulfil the testing requirements
 - NIH will establish a centralized testing facility to conduct supplemental testing, and also support product-specific testing (e.g., potency)

As the IND holder, NIH will be responsible for the CoA that is submitted to FDA to support the clinical trial

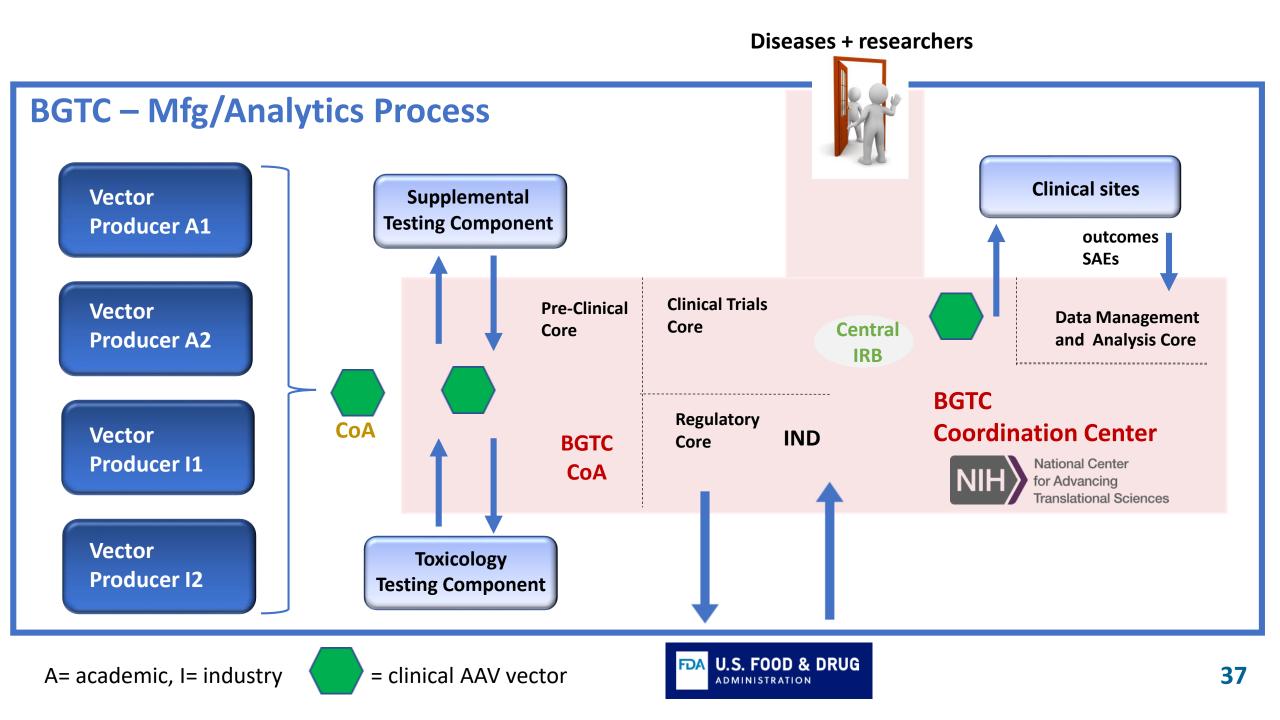


Engagement with FDA

- Consider establishing Master Files
- Early engagement with FDA staff for feedback on specific issues e.g., testing requirements for AAV-based gene therapy products
 - Focus on principles so feedback is generally applicable (not product-specific)
- Explore streamlining regulatory requirements examples:
 - Leveraging pre-clinical and CMC data based on past experience with vector or similar GT product, if scientifically justified, to reduce testing of future iterations of a similar product
 - Innovative clinical trial design for bespoke products
- Full spectrum of formal FDA meetings available to support product development
 - o e.g., CATT, INTERACT, pre-IND meetings etc.
- Pathway to licensure?





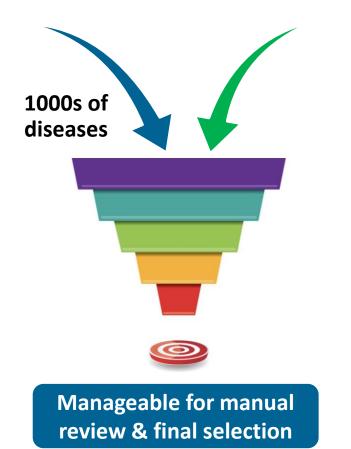


How to Prioritize Rare Diseases in the BGTC?





Evidentiary and Ethics Criteria for Disease Selection



- Draft criteria were developed and revised by representatives from gov't, industry, academia, bioethics and patient advocacy
- Goal of establishing a complementary set of diseases, to allow maximum generalizability and potential benefit to the field
- Partners will have direct input and role in the final disease selection
- Highlight → this is a <u>PILOT</u>
 - $\circ~$ Learning through the program
 - Improve as it matures



BGTC Pilot Disease Selection Criteria

Pre-Clinical Screening Template		BGTC Pilot Study: Additional Screening Considerations	
Invariant Criteria	Yes No.	Expected Magnitude of Benefit	
U.S. prevalence <1 per 100,000		Expected benefit represents substantial improvement over current therapies	
		Expected benefit substantially improves event-free survival	
Established genotype-phenotype association		Expected benefit substantially reduces psychomotor disability	
Amenable to AAV-mediated gene <i>replacement</i> (i.e. AR, X-linked)		pected benefit restores primary sensory modality (e.g., vision, hearing)	
Therapeutically relevant protein product <666 amino acids		cted benefit prevents end-stage organ failure (e.g., heart, liver, kidney)	
Variant Criteria WORK IN PROGRESS Vity of Success			
Robust clinical trial endpoints (patient-centered outcomes, biomarkers)		- Established network of key opinion leaders to facilitate trial design	
Valid animal model (e.g. mouse, swine, domestic, etc.)		Established patient advocacy <i>and/or</i> support group	
Proof-of-concept data in animal model (i.e. <i>efficacy</i>)			
Safety and/or overexpression data in animal model (toxicology)		Existing patient registry	
No known commercial interest		Concentrated regional subject representation(s); e.g. ethnic groups	
		• Expected meaningful change of functional endpoint (e.g., gait) within ≤ 1 year	
Extra Queries for BGTC Pilot Only		• Expected meaningful change of biomarker (e.g., analyte) within \leq 1 year	
		• Appropriate study <i>power:</i> expected benefit significant with <i>N</i> treated subjects	
		Disadvantaged Populations	
		Impacts newborns, infants, or young children	
		Impacts non-Caucasian individuals	

- Impacts socioeconomically disadvantaged populations
- · Impacts medically uninsured individuals



Yes

Yes

Yes

No

No

No

Getting to Final Selections

- Continued input and expertise from members of the Clinical Development WG
- Engagement and vetting of criteria and process with NIH Division of Ethics
- Transparency, clarity of process and program education will be an essential piece of the associated Communications efforts for AMP GT

Core Ethical Values for Clinical Research Priority-Setting

Social Value	Acceptable Risk-Benefit Ratio for Individual Participants	Procedural Fairness	Complexities in implementing a "Selection Algorithm"
 Magnitude of benefits Probability of success Disadvantages 	 Diseases/Trials - acceptable risk (AAV exposure) vs. benefit calculus Consider multiple levels: high risk/high reward; low risk/low reward selections 	 selection be logical and transparent Impartial and not conflict of interest by decision-makers 	 Multiple criteria may not work well for (Y/N) e.g. items within social value



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Clinical Trial Design and Development

- Wherever possible, leverage already existing NIH funded clinical trial programs
 - Rare Diseases Clinical Research Network (RDCRN) <u>https://www.rarediseasesnetwork.org/</u>
 - O NINDS NeuroNext <u>https://neuronext.org/</u>
 - O CTSA Program <u>https://ncats.nih.gov/ctsa</u>
 - \bigcirc Other







- A single BGTC IRB
- Include board of expert clinicians in AAV GT trials to guide treatment and learning
- Pilot testing of visiting research nurses to allow administration of gene therapy in areas outside of major academic medical centers



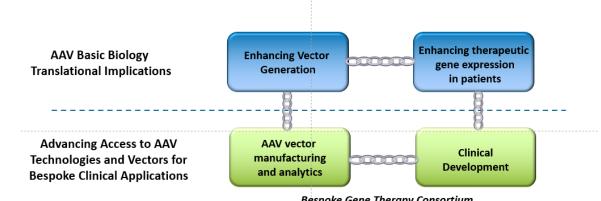
Key Deliverables of the BGTC

- A menu of AAV vector and vector generation processes
- A harmonized set of vector quantitation and lot release assays
- A process for disease selection for trials
- Manual for AAV gene therapy using select AAV serotype vectors
- Establish board of expert clinicians in AAV GT trials to guide treatment and learning
- Framework to manage IND & legal liabilities; pilot studies for shared learning and future processes
- Implementation of results from Advancing the Understanding of AAV Biology component



Key Role of Gene Therapy Partners in BGTC Pilot

- Participate in the BGTC: learn first-hand and guide the pilot as program • moves forward
- Engage on subteam(s) that are directly involved in the development and standardization and harmonization of testing processes, assays and regulatory interactions
- Continuous guidance of BGTC progress through periodic review of project
- Incorporate the innovations and understanding from the AAV biology • research





Proposed Budget

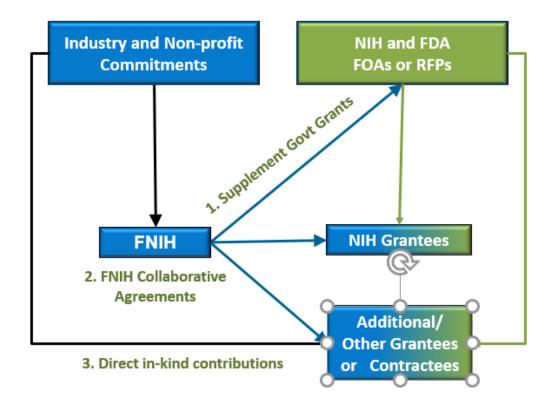
AMP-GT program	Annual costs
Whole host and viral genome high	\$10M direct and indirect costs
throughput screening and additional	
targeted specific grants and contracts	
Cost of goods for manufacture and delivery	\$8M direct and indirect costs
of 5-6 gene therapies (~10 Pts/trial)	
FNIH Project management, meetings, and	\$2.5M direct and indirect costs
travel; includes outgoing research indirects	
Total Estimated Costs	\$102.5M

The AMP-GT partnership seeks co-investment (50:50) of public and private sector partners: funding to supplement federal support from NIH and FDA.



Decisions, Support and Partner Engagement

- Project Plan will expand on these key questions and how they interrelate → RFPs
- Proposals may be supported through multiple funding mechanisms (grants, contracts, collaborative and in-kind agreements); managed by NIH, FDA or FNIH
- AMP GT stakeholder representatives will have a meaningful role (e.g., subteam, decisions) to review, prioritize, select best proposals and outline the appropriate levels of support









Session 3

Communications and Partnering Opportunities





Communications

Help advance education and engagement strategies relating to gene therapy

- **1.** Fund and help develop special outreach to external stakeholders:
 - Patient and research communities, regulatory authorities, industry, academia and other nonprofits
 - Dissemination of materials about the science of Gene Therapy
 - Infographics, FAQs, announcements, project results
 - Symposia (regional or national conferences), publications, commentaries, workshops, webinar(s), print and/or web materials or videos
- 2. Fund and help develop materials to support internal stakeholders (project partners) in communicating about AMP-GT
 - e.g., talking points, internal Q&A, preparation notes for speaking with media
- 3. Support development of internal and external communications activities through an AMP-GT Outreach Working Group
 - Share patient/family perspective(s) with scientific project team/SC
- 4. Help with patient recruitment as necessary



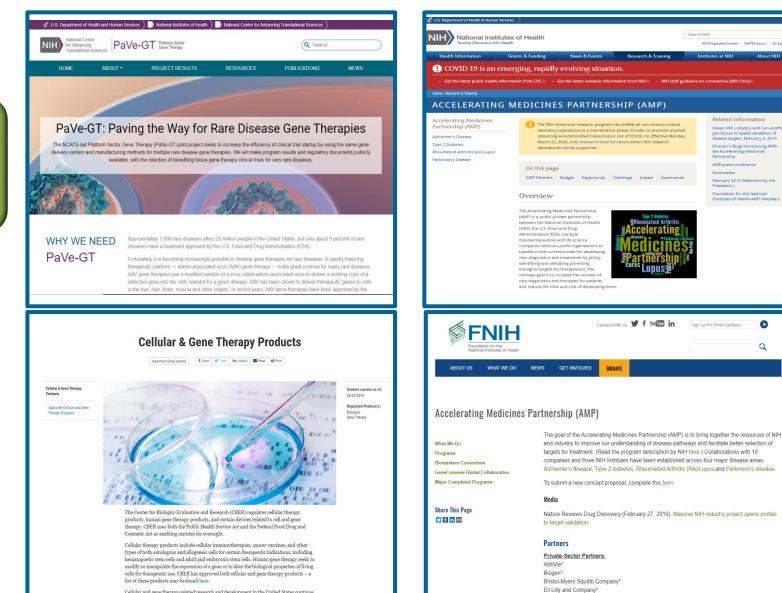


Development of AMP GT Webpage(s)

Good model in **NCATS PaVe-GT** https://pave-gt.ncats.nih.gov/

Goal: Complement and link resources and information from multiple sources





Cellular and gene therapy-related research and development in the United States continue

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Alignment and Scientific Sharing with Other Consortia

- Many pharma partners are also investing in complementary efforts
 - ARDAT Accelerating Research and Innovation of ATMPs
 - Advanced Therapy Medicinal Products (ATMPs) development regarding host responses, persistence of efficacy, redosing, and safety

innovative

- AMP GT will work with ARDAT and IMI leads to coordinate regular exchanges between the two programs (e.g., at conferences, F2F mtgs)
- Opportunity to bring greater visibility, involvement and expertise across programs



Proposed Industry Investment

Funding Support

- Proposed budget for AMP GT scientific program = \$102.5M
- NIH/FDA anticipated support for 50% of budget
- Private sector desired support = the other 50% (~\$50M)
- Seeking a minimum of 10 large Pharma partners: ~\$1M / year over 5 years
- Tiered levels of investment of additional partners based on R&D budget

Representation

- R&D Stakeholders may appoint one representative as a *full* **voting member** of the SC
- Opportunities to nominate representatives with specific expertise and experience for subteams or special purpose groups are expected to be necessary in the program
 - Regulatory manufacturing, communications, etc.



Proposed Not-for-Profit, Philanthropist & Advocacy Organization Investment

Funding Support

- Key contributors: nonprofit, advocacy leaders, and philanthropists
- Join the Steering Committee as a Stakeholder and serve as a *full* **voting member** with a financial commitment of \$100,000 or more per year
- Organizations and individuals donating between \$99,999 and \$25,000 annually may join the Steering Committee as non-voting members

Representation

- Stakeholders may appoint one representative as a *full* **voting member** of the SC
- Opportunities to nominate representatives with required expertise and experience for subteams or special purpose groups may emerge



AMP GT Steering Committee: Voting

- NIH, FDA, and not-for-profit organizations will have votes that will not exceed 50% of total
- Industry Partners will have the other 50% of the votes
- Academic investigators, whether provided funding by the project or not, may be added at the Steering Committee's discretion. To avoid potential conflicts of interest, such academic members would not be voting members





Time Commitments and Meetings

- Monthly SC teleconferences
- 1 2 face-to-face meetings of the SC per year
- The SC may elect to form Working Groups to advise the full Steering Committee on scientific, operational or technical issues





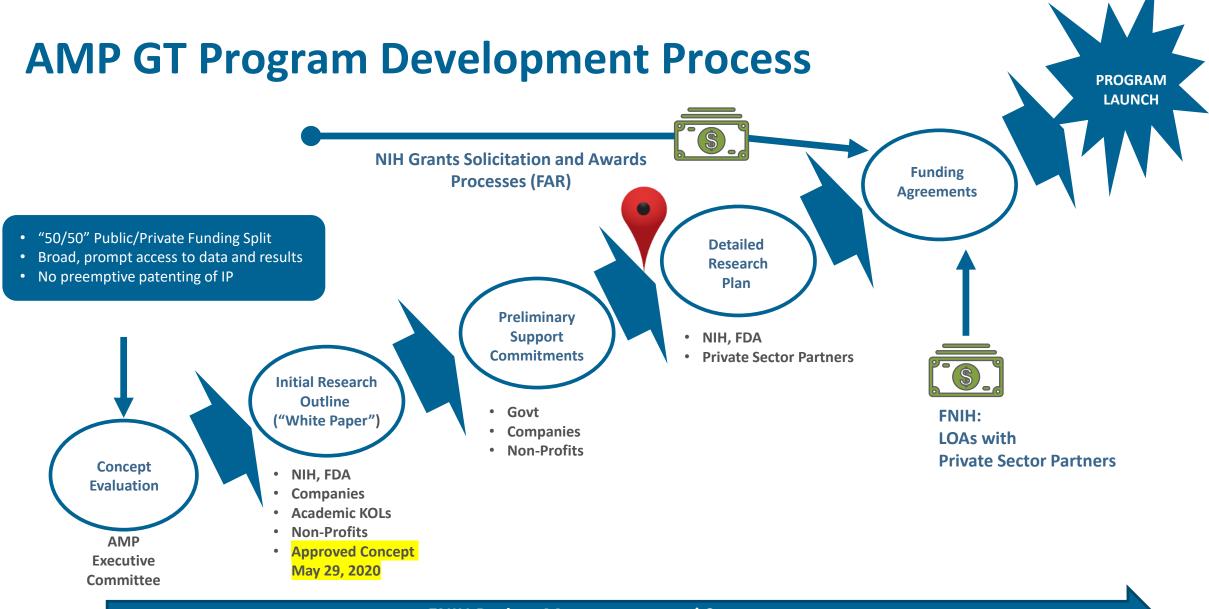




Timelines and Next Steps







FNIH Project Management and Support



Ongoing Actions & Next Steps



- Collate questions and comments from Webinar (chat, follow-up emails, direct conversations) → ⊠ send additional questions to FNIH
- Finalize the Project Plan (Q3 2020)
 - White paper and outline of pilot manufacturing process and engagement with BGTC Coordinating Center & FDA
 - o Refinement of disease selection criteria
 - o Continued development of a strategic plan for Communication efforts
- Formal Letters of Agreement sent to potential partners (Q4 2020)



Contact Information

Research Partnerships

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Back-up Slides





AMP GT: Complementing and Expanding on NCATS PaVe-GT

FNIH

PaVe-GT and FDA-NCATS-FNIH Public-Private Partnership

