



# Corporate Overview

November 2020



# Safe Harbor Statement



This presentation and any accompanying oral presentation contain “forward-looking” statements within the meaning of the “safe harbor” provisions of the Private Securities Litigation Reform Act of 1995, including, but not limited to: the timing of the release of data from our clinical trials, including etokimab’s week 16 data for the Phase 2 clinical trial in adult chronic rhinosinusitis with nasal polyps patients and imsidolimab’s Phase 2 trials in GPP and PPP patients; the timing of initiation of imsidolimab’s Phase 2 trials in EGFRi /MEKi and ichthyosis; the timing of a regulatory strategy update for GPP; the timing of an IND filing for ANB032; the milestones and success of our GSK collaboration; and our projected 2020 cash burn and cash runway. Statements including words such as “plan,” “continue,” “expect,” or “ongoing” and statements in the future tense are forward-looking statements. These forward-looking statements involve risks and uncertainties, as well as assumptions, which, if they do not fully materialize or prove incorrect, could cause our results to differ materially from those expressed or implied by such forward-looking statements. Forward-looking statements are subject to risks and uncertainties that may cause the company’s actual activities or results to differ significantly from those expressed in any forward-looking statement, including risks and uncertainties related to the company’s ability to advance its product candidates, obtain regulatory approval of and ultimately commercialize its product candidates, the timing and results of preclinical and clinical trials, the company’s ability to fund development activities and achieve development goals, the company’s ability to protect intellectual property and other risks and uncertainties described under the heading “Risk Factors” in documents the company files from time to time with the Securities and Exchange Commission. These forward-looking statements speak only as of the date of this presentation, and the company undertakes no obligation to revise or update any forward-looking statements to reflect events or circumstances after the date hereof.

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# AnaptysBio: Clinical-Stage Novel Antibody R&D Engine

*Advancing First-In-Class Immunology Therapeutics to Patients*



## Multiple Clinical Catalysts

Upcoming catalysts include imsidolimab GPP EOP2 meeting and PPP Phase 2 data, ANB030 Phase 1 clinical data and ANB032 IND filing

## Validated Platform

Rapid antibody R&D engine has advanced 7 internally-generated antibodies to clinical development since 2016

## Novel Immunology Pipeline

Focused on first-in-class inflammation and immuno-oncology mechanisms, advancing 1 new program to IND each year

## Accelerating Partnership Revenues

Approximately \$160MM in partnership revenues to date, additional \$75MM in milestones anticipated in upcoming 18 months, plus royalties

## Capital Efficient Business Model


Cash and existing partnerships anticipated to extend runway into 2023, ~\$375MM in cash (end Q3 2020) with projected 2020 net burn close to breakeven

# Wholly-Owned Product Pipeline

7 AnaptysBio-Generated Antibodies Advanced to Clinical Development Since 2016



Antibody Program	Therapeutic Indication	Development Stage & Anticipated Milestones					Commercial Rights
		Discovery	Preclinical	Phase 1	Phase 2	Phase 3	
Imsidolimab (ANB019): Anti-IL-36R	Generalized Pustular Psoriasis				FDA End-Of-Phase 2 Meeting Anticipated Q4 2020 FDA Orphan Drug Designation Received		
	Palmoplantar Pustulosis				POPLAR: Phase 2 Top-Line Data Q1 2021		
	EGFRI-Mediated Skin Toxicity				Phase 2 Initiation Q4 2020		
	Ichthyosis				Phase 2 Initiation Q4 2020		
Etokimab (ANB020): Anti-IL-33	Atopic Dermatitis				Phase 2a Data Presented at AAD and EAACI 2018	Discontinue Development	
	Eosinophilic Asthma				Phase 2a Data Presented at EAACI 2019	Phase 2b On-Hold	
	Chronic Rhinosinusitis With Nasal Polyps				ECLIPSE: Phase 2 Complete Data Year-End 2020		
ANB030: Anti-PD-1 Agonist	Inflammatory Diseases			Phase 1 Top-Line Data Mid-2021			
ANB032: Anti-BTLA Modulator	Inflammatory Diseases		IND Filing Anticipated Q4 2020				



AnaptysBio

All programs generated internally using AnaptysBio's proprietary antibody platform technology

# Partnered Product Pipeline

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<b>Dostarlimab (GSK4057190):</b> Anti-PD-1 Antagonist  <b>Cobolimab (GSK4069889):</b> Anti-TIM-3 Antagonist  <b>GSK4074386:</b> Anti-LAG-3 Antagonist  <b>TSR-075:</b> Anti-PD-1/ LAG-3 Bispecific	dMMR Endometrial Cancer					US BLA Approval Anticipated H2 2020, EMA MAA Filing Accepted	
	dMMR Pan-Tumor					Regulatory Filing Anticipated H1 2021	
	Ovarian Cancer				MOONSTONE & OPAL: Ongoing	FIRST: Ongoing	
	Immuno-Oncology				AMBER: Dostarlimab Combination Trial Ongoing		
	Immuno-Oncology				CITRINO: Dostarlimab Combination Trial Ongoing		
	Immuno-Oncology		IND-Enabling Studies Ongoing				
CC-90006: Anti-PD-1 Agonist	Psoriasis			Ongoing			
Undisclosed	Inflammation		Ongoing				

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# Anticipated Wholly-Owned Pipeline Catalysts



Program	Clinical Catalyst	Anticipated Timing
<b>Imsidolimab (ANB019, anti-IL-36R)</b>	GALLOP: GPP Phase 2 Trial	FDA End-Of-Phase 2 meeting anticipated in Q4 2020
	POPLAR: PPP Phase 2 Trial	Top-line data anticipated in Q1 2021
	EGFRi Mediated Skin Toxicity Phase 2 Trial	Phase 2 trial initiation in Q4 2020
	Ichthyosis Phase 2 Trial	Phase 2 trial initiation in Q4 2020
<b>Etokimab (ANB020, anti-IL-33)</b>	ECLIPSE: Adult Chronic Rhinosinusitis with Nasal Polyps Phase 2 Trial	Complete data by year-end 2020
<b>ANB030 (anti-PD-1 Agonist)</b>	Healthy Volunteer Phase 1 Trial	Top-line data anticipated in mid-2021
<b>ANB032 (anti-BTLA Modulator)</b>	IND Filing	Anticipated Q4 2020

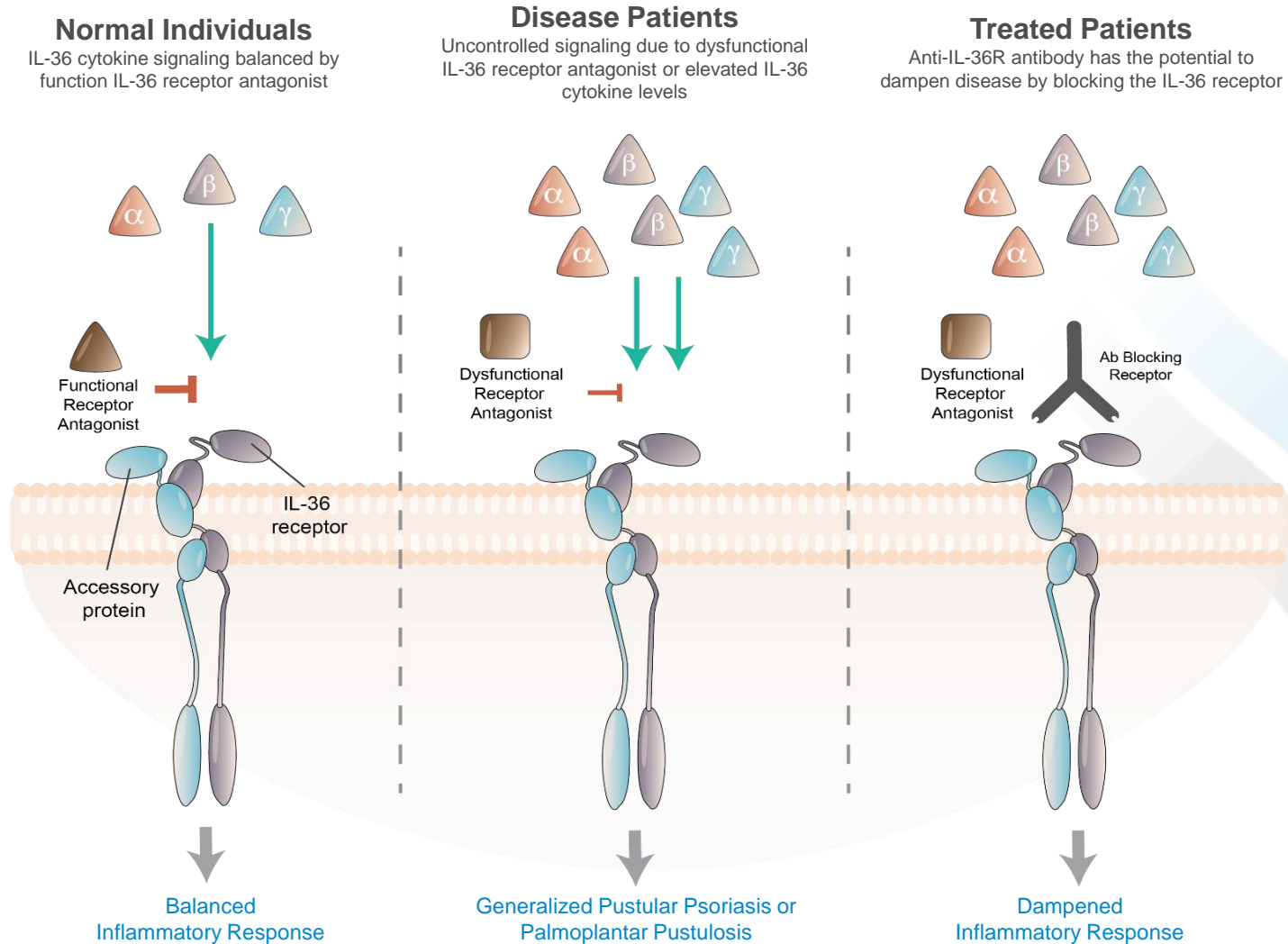


## **Wholly-Owned Pipeline: Insidolimab (ANB019, Anti-IL-36R)**

Generalized Pustular Psoriasis  
Palmoplantar Pustulosis  
EGFRi-Mediated Skin Toxicity  
Ichthyosis

# IL-36 Dysfunction Mediates Severe Inflammatory Disease

## *Genetic Association with Generalized Pustular Psoriasis*





# Generalized Pustular Psoriasis (GPP)

*Orphan Disease Associated with IL-36 Receptor Antagonist Mutations*

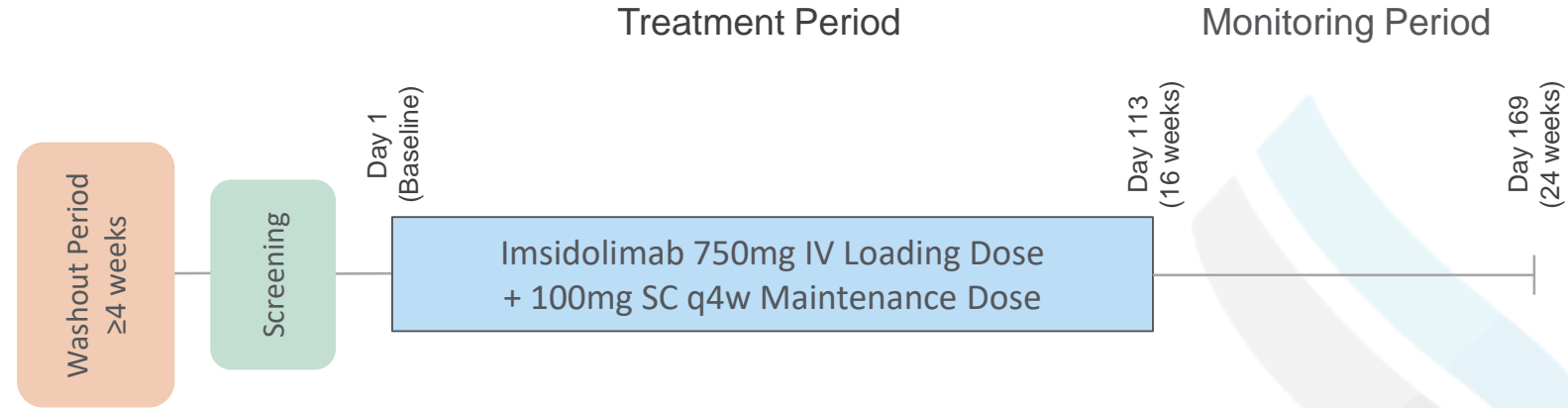


- GPP is a systemic, life-threatening inflammatory disease characterized by widespread pustules
  - Patients have a high fever and elevated levels of serum CRP and inflammatory cytokines (e.g. IL-8)
- Severe GPP patients can die from cardio-pulmonary failure, exhaustion, toxicity and infection
  - No approved therapies for treatment of GPP
- Affects approximately 3,000 patients in the United States
- FDA has granted Orphan Drug Designation to imsidolimab for the treatment of GPP



# GALLOP: Imsidolimab Moderate-to-Severe GPP Phase 2 Trial

## Trial Design



<b>Patient Population</b> (n=8)	<ul style="list-style-type: none"><li>Moderate-to-severe adult generalized pustular psoriasis patients</li><li>Baseline mJDA score <math>\geq 7</math>, <math>\geq 10\%</math> body surface area covered by pustules</li><li>No concomitant dermatological condition or infection</li><li>Washout prior therapy for at least 4 weeks</li></ul>
<b>Key Endpoints</b>	<ul style="list-style-type: none"><li>Primary: Improvement in modified Japanese Dermatology Association (mJDA) index based upon Clinical Global Impression (CGI) scale at Day 29 and Day 113 with imsidolimab monotherapy*</li><li>Secondary: change in skin pustules, serum C-reactive protein (CRP) levels</li></ul>

ClinicalTrials.gov: NCT03619902

# GALLOP: GPP Phase 2 Interim Analysis Data

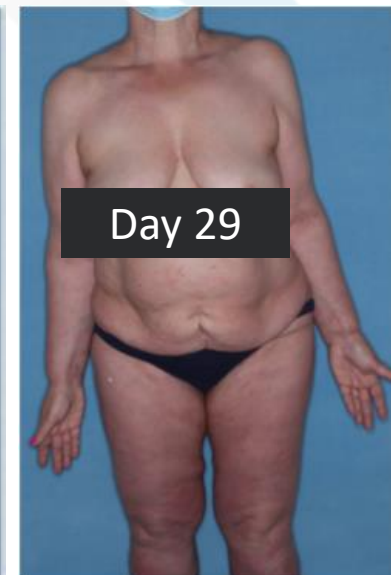
*Rapid Onset and Promising Efficacy With Imsidolimab Monotherapy*

*Anticipate FDA End-Of-Phase 2 Meeting in Q4 2020*



- Rapid and promising efficacy
  - 6 of 8 patients achieved primary endpoint of improvement in the clinical global impression scale (CGI) on Day 29
  - Rapid reduction of skin pustules by 60% on Day 8 and 94% clearance on Day 29
  - 2 patients dropped out of the study before Day 29 and hence were deemed non-responders
- Imsidolimab was generally well-tolerated
  - Most treatment-emergent adverse events were mild to moderate in severity and resolved without sequelae
- Genotypic testing indicated homozygous wild-type IL-36RN, CARD14 and AP1S3 alleles for all 8 patients
  - Suggests that imsidolimab is broadly applicable to pustular diseases irrespective of genetic drivers
- FDA end-of-Phase 2 meeting anticipated in Q4 2020
  - Already obtained orphan drug designation in July 2020
- Initiating a worldwide registry of GPP and PPP patients, named RADIANCE
  - Increase understanding of patient journey
  - Support enrollment of future trials

Endpoint	Baseline	Day 8 Relative to Baseline	Day 29 Relative to Baseline
Improvement on Clinical Global Impression (CGI) Scale	N/A	7 of 8 patients	6 of 8 patients
Modified Japanese Dermatology Association Severity Index	9	-29%	-54%
Erythema with Skin Pustules (% body surface area)	24%	-60%	-94%



# Palmoplantar Pustulosis (PPP)

*Orphan Disease Associated With Elevated IL-36 Cytokine Levels*

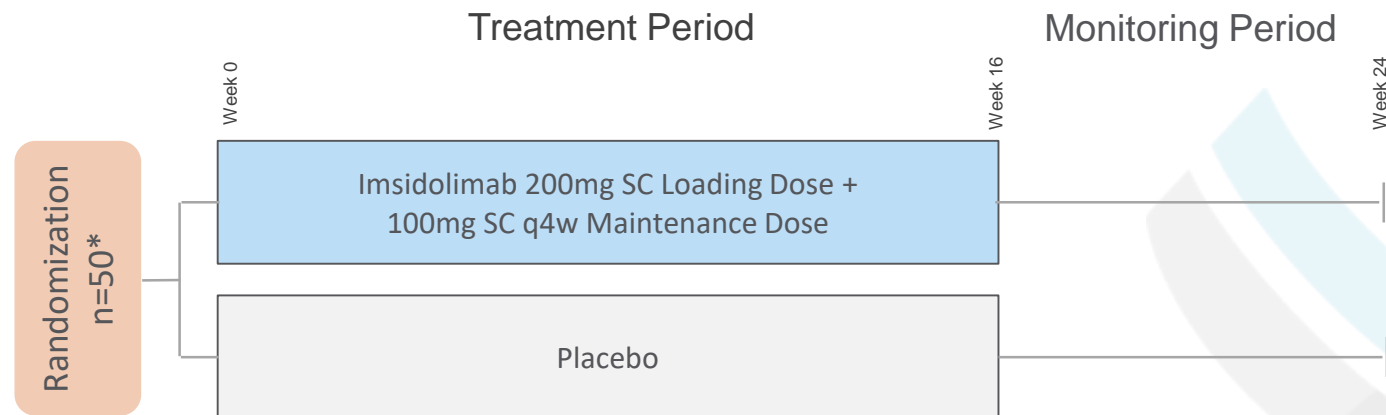


- Severe inflammation of hands and feet
  - Significant pain and inability to stand, walk or work
- No approved therapeutic options in this indication
- PPP is an orphan disease that affects approximately 150,000 patients in the United States



# POPLAR: Imsidolimab Palmoplantar Pustulosis Phase 2 Trial

*Enrollment Completed, Top-Line Data Anticipated Q1 2021*



Patient Population	Adult Moderate-to-Severe Palmoplantar Pustulosis
Key Endpoints Week 16	PPPASI Score Improvement Safety

ClinicalTrials.gov: NCT03633396

# New Indication: EGFRi-Mediated Skin Toxicity

*Translational Data Suggests IL-36 Signaling Drives EGFR/MEK Inhibitor Papulopustular Rash*



- Papulopustular rash is the most frequent clinically significant dermatological toxicity associated with EGFR/MEK inhibitor solid tumor treatment
- Majority of patients experience dose-limiting skin toxicity and/or discontinuation of EGFR/MEK inhibitor therapy
- Recent human translational data indicates elevated IL-36 signaling is the key driver for this skin toxicity
  - Associated with IL-8 release and neutrophilia
- Approximately 60,000 patients are treated annually with EGFR/MEK inhibitors
- Anticipate initiating Phase 2 trial of imsidolimab for the treatment of EGFRi-mediated skin toxicity in Q4 2020



Gerber et al. Eur J Med Res. 2012; 17(1):4



# New Indication: Ichthyosis

*Orphan Disease Associated With Excess IL-36 Signaling*



- Ichthyosis is a rare, orphan dermatological indication with high medical unmet need
- Patients suffer from dry, scaly skin, often leading to itch and painful cracking
- Translational studies have demonstrated high IL-36 cytokine expression levels in patient skin biopsies
- Approximately 6,000 adults diagnosed with moderate-to-severe ichthyosis in the United States
- Initiation of imsidolimab Phase 2 trial in ichthyosis anticipated in Q4 2020





# **Wholly-Owned Pipeline: Etokimab (ANB020, Anti-IL-33)**

Chronic Rhinosinusitis with Nasal Polyps  
Moderate-to-Severe Eosinophilic Asthma

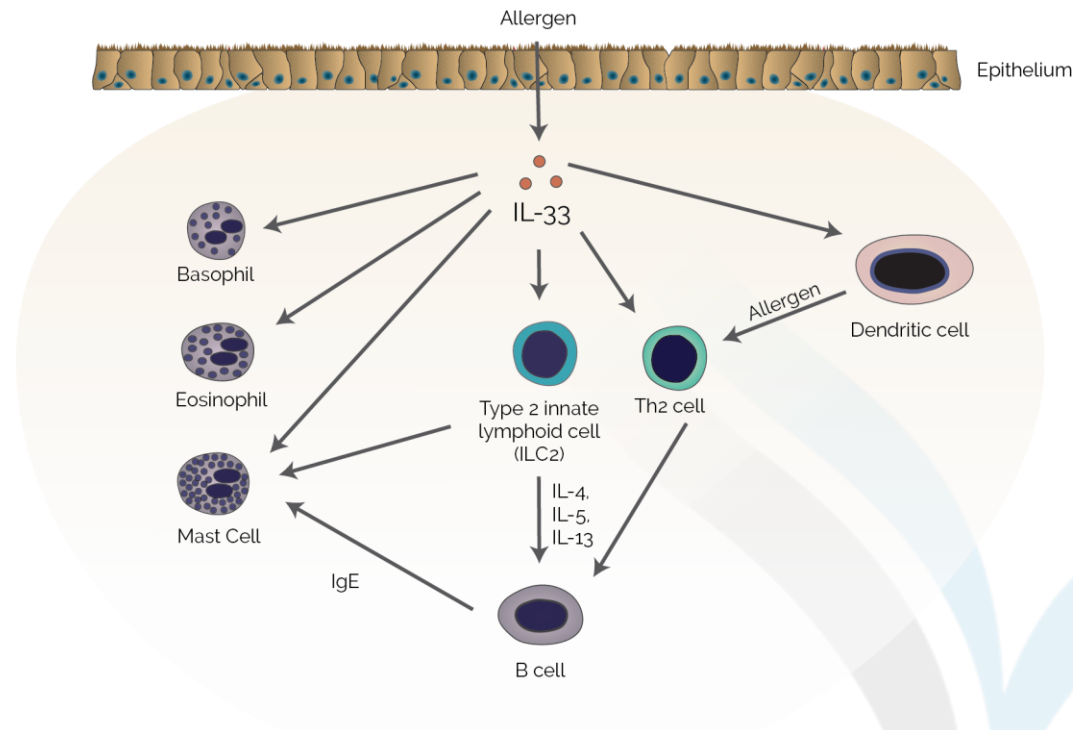


# Etokimab: First-in-Class Anti-IL-33 Antibody

## *Development Focused on Respiratory Indications*



- IL-33 is genetically associated with asthma
  - IL-33 pathway loss-of-function mutations protect against asthma, while gain-of-function mutations increase asthma incidence
  - Translational studies have demonstrated IL-33's role as pro-inflammatory cytokine released upon allergen contact with epithelium
- Etokimab is a potentially first-in-class anti-IL-33 cytokine antibody
  - Etokimab development focused on respiratory indications, including chronic rhinosinusitis with nasal polyps and moderate-to-severe eosinophilic asthma
  - Estimate 400,000 adults diagnosed with chronic rhinosinusitis with nasal polyps, and 1.1 million adults diagnosed with severe asthma, are inadequately controlled by standard of care in the US

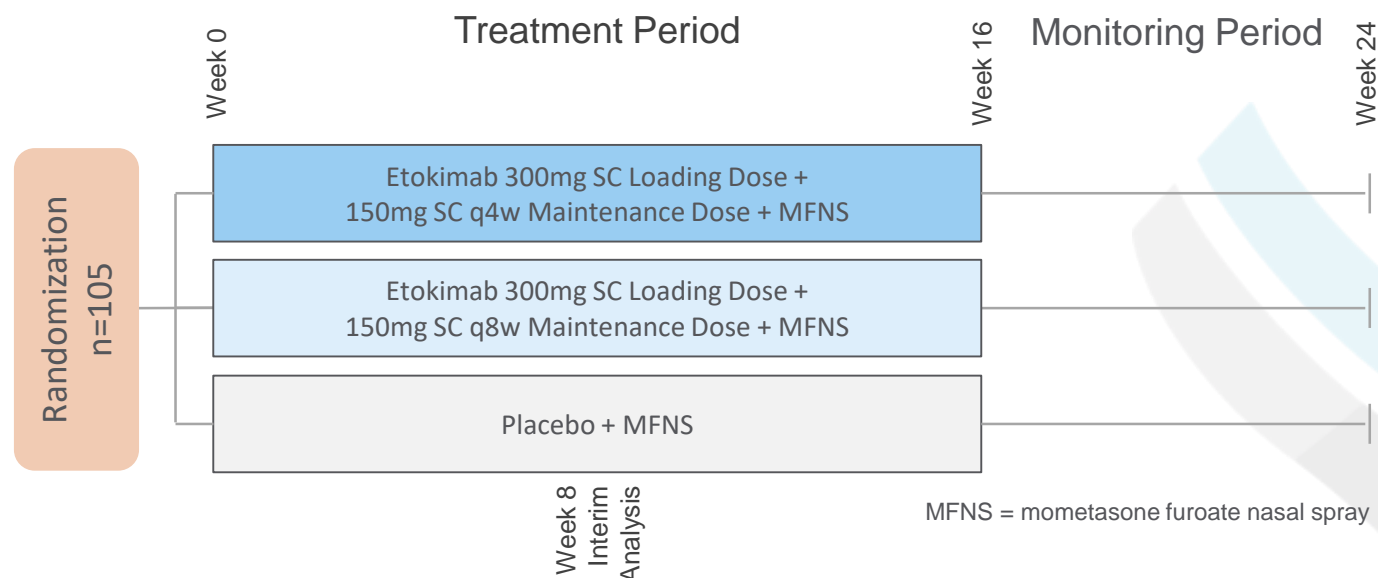


IL-33 is believed to act as a gatekeeper of allergic response with demonstrated activity in the initiation (activation of ILC2 cells)<sup>1</sup>, propagation (activation of allergen-specific T and B cells)<sup>2</sup> and amplification (degranulation of mast cells and basophils)<sup>3</sup>.

1. Cayrol et al. *Curr Opin Immunol* (2014) 31:31
2. Peine et al. *Trends Immunol* (2016) 37(5):321
3. Saluja et al. *Clin Transl Allergy* (2015) 5:33

# ECLIPSE: Etokimab CRSwNP Phase 2 Trial

*Complete Data Anticipated by Year-End 2020*



Patient Population	Adult Chronic Rhinosinusitis with Nasal Polyps Baseline NPS $\geq$ 4 and SNOT-22 $>$ 16
Key Endpoints	Primary: change in NPS and SNOT-22 relative to baseline at week 16 Secondary: FEV1, ACQ and blood eosinophil in asthma subsets

# ECLIPSE: Etokimab CRSwNP Phase 2 Trial

*Interim Analysis Data Announced August 10<sup>th</sup> 2020*



- Etokimab q4w and q8w treatment arms failed to achieve NPS and SNOT-22 statistical significance over placebo at this week 8 interim analysis
  - Both arms demonstrated statistical significance over baseline
- Secondary analyses demonstrated NPS and blood eosinophil level improvement in both asthma and non-asthma comorbid patients versus placebo in each etokimab-dosed arm, while ACQ-5 scores were improved in the asthmatic subset
- Blood eosinophil reduction achieved statistical significance over baseline in both etokimab treatment arms
- Etokimab was generally well-tolerated and demonstrated an acceptable safety profile
- AnaptysBio to assess path forward for the etokimab program after reviewing week 16 primary endpoint data by year-end 2020

Endpoint	Parameter	Etokimab q4w (n=35)	Etokimab q8w (n=35)	Placebo (n=35)
NPS	Baseline	5.4	5.2	5.7
	Week 8	-10%	-11%	-4%
	p-value vs placebo	0.3348	0.3042	N/A
	p-value vs baseline	0.0286	0.0243	0.4288
SNOT-22	Baseline	51.4	53.9	56.9
	Week 8	-23%	-23%	-19%
	p-value vs placebo	0.9927	0.9275	N/A
	p-value vs baseline	<0.0001	<0.0001	<0.001
Blood Eosinophils (cells/microliter)	Baseline	440	350	430
	Week 8	-23%	-23%	7%
	p-value vs baseline	0.004	<0.001	0.358



**Wholly-Owned Pipeline:**  
**Anti-PD-1 Agonist (ANB030)**  
**Anti-BTLA Modulator (ANB032)**

Inflammatory Diseases

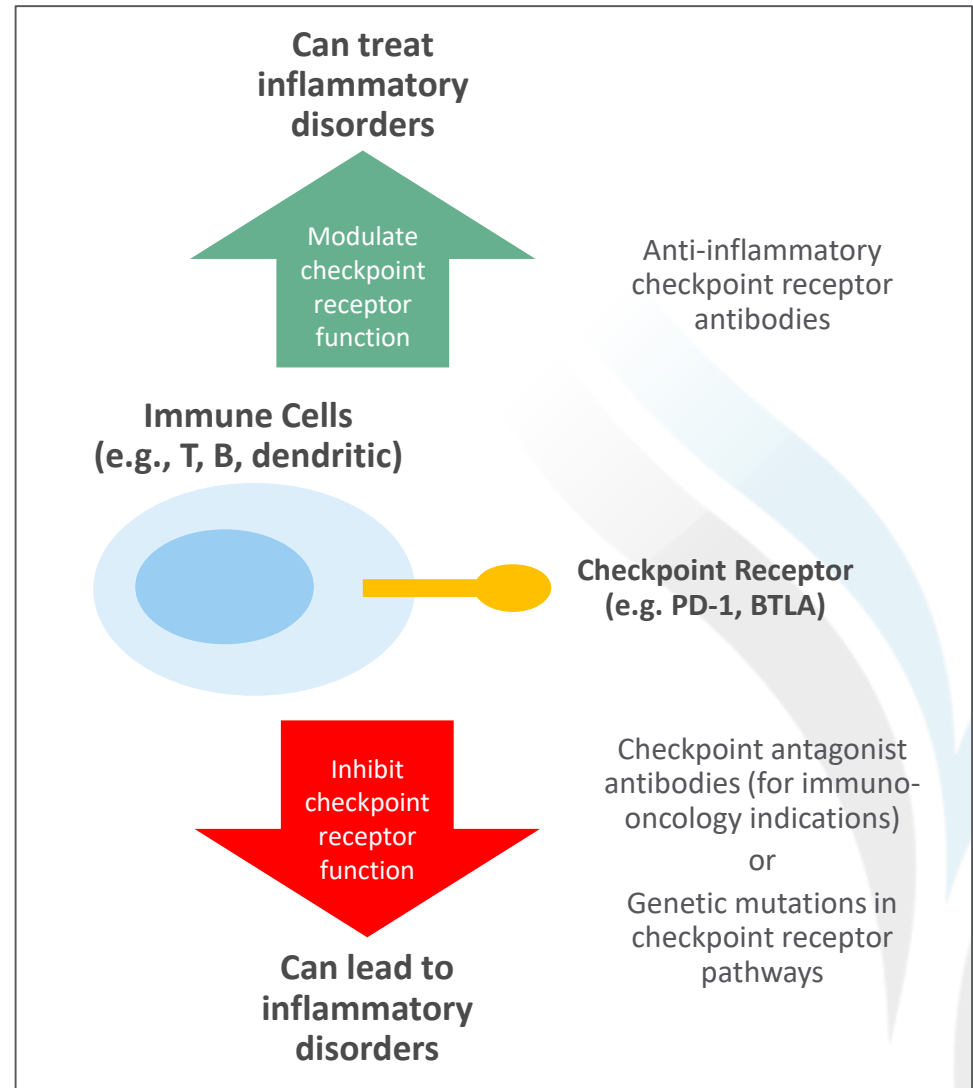
# Anti-Inflammatory Checkpoint Receptor Antibodies

*Novel Therapeutic Class Validated By Human Genetics*



*Anti-inflammatory checkpoint receptor antibodies have unique binding properties that are challenging to generate using traditional antibody technologies*

*AnaptysBio's technology platform has successfully discovered a portfolio of anti-inflammatory checkpoint receptor antibodies, which are advancing to clinical trials*

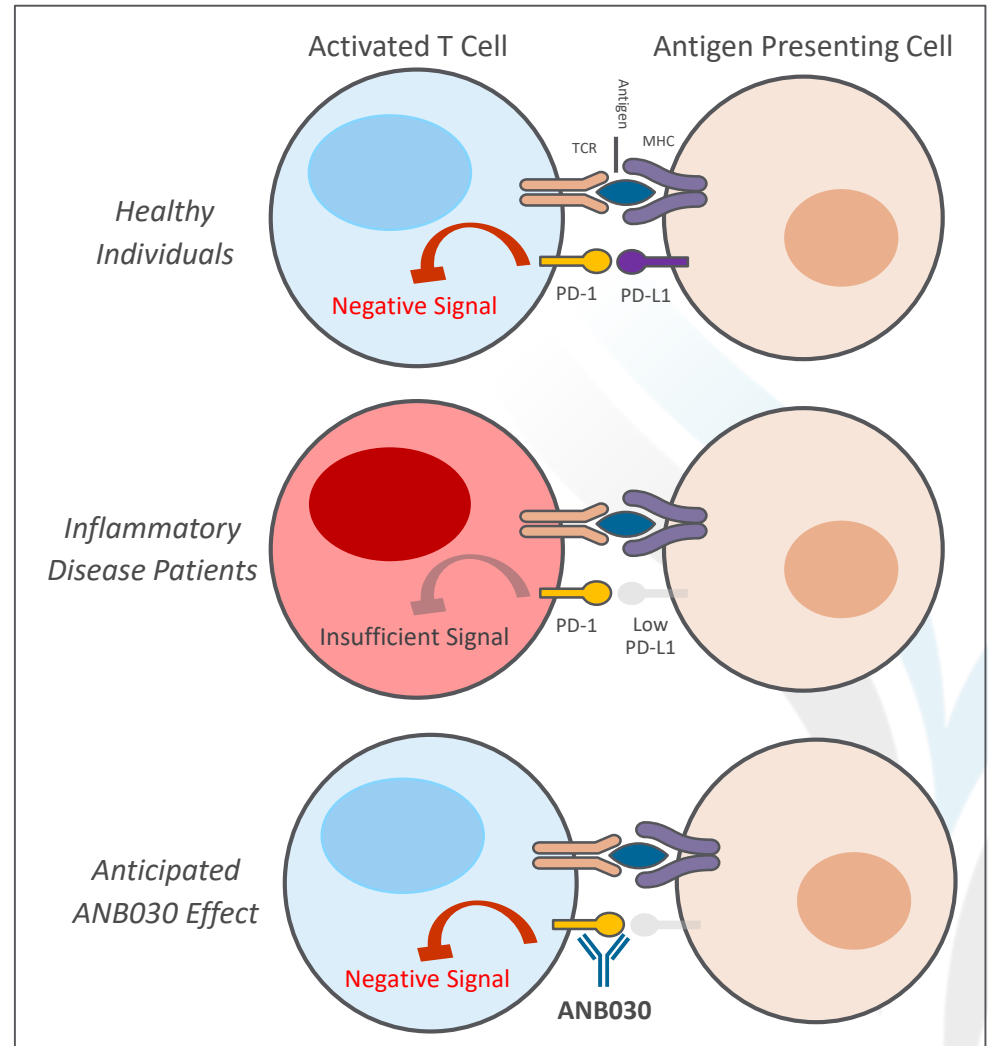


# ANB030: PD-1 Agonist Antibody

*Novel Anti-Inflammatory Mechanism Applicable to T-Cell Driven Inflammatory Conditions*



- PD-1 is a key inhibitory immune checkpoint receptor responsible for down-regulating T-cell mediated immune responses
- Insufficient PD-1 activity is associated with human inflammatory diseases
  - Genetic mutations in the PD-1 pathway can increase susceptibility to various inflammatory conditions\*
- We hypothesize that augmenting PD-1 signaling through ANB030 treatment has the potential to suppress T-cell driven human inflammatory diseases
  - Designed to down-regulate autoreactive T cells by mimicking the function of PD-L1
- Preclinical translational data presented in March 2020
- Healthy volunteer Phase 1 trial ongoing
  - Anticipate top-line data in mid-2021



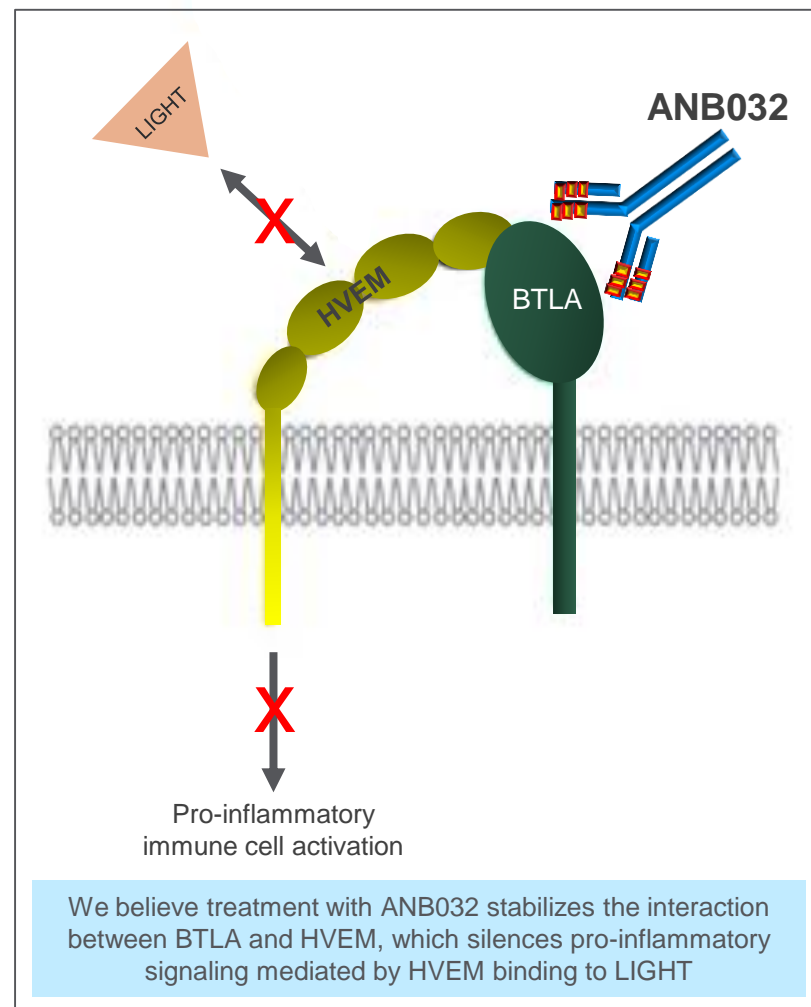
\* Okazaki and Honjo. Intern Immunol. 2007

# ANB032: BTLA Modulator Antibody

*Emerging Lymphoid and Myeloid Immune Control Mechanism Broadly Applicable to Inflammatory Disease*



- BTLA is an inhibitory checkpoint receptor responsible for regulating activation of lymphoid (T and B) cells and myeloid (dendritic) cells
- Genetic defects in the BTLA pathway are associated with enhanced susceptibility to inflammatory diseases\*
- ANB032 is an anti-inflammatory antibody targeting the BTLA pathway
  - Anticipate ANB032 may be broadly applicable to inflammatory disease due to breadth of BTLA expression across immune cell types
  - ANB032 has demonstrated robust *in vivo* efficacy in animal models of GVHD
- ANB032 IND filing anticipated in Q4 2020



\* Lin et al. J Biomed Sci. 2006



## **Partnered Pipeline: GSK Immuno-Oncology Collaboration**

Dostarlimab (GSK4057190, anti-PD-1 Antagonist)

Cobolimab (GSK4069889, anti-TIM-3 Antagonist)

TSR-033 (GSK4074386, anti-LAG-3 Antagonist)



# GSK Immuno-Oncology Collaboration

## *Dostarlimab Approaching US Regulatory Approval*



dMMR Endometrial	BLA and MAA Accepted US Approval Anticipated in Q4 2020	GARNET (n=125) RUBY (n=470)
dMMR Pan-Tumor	Regulatory Filing Anticipated H1 2021	GARNET (n=125)
Colorectal		GARNET (n=48) FIRST (n=912)
Ovarian	MOONSTONE (n=150) OPAL (n=41)	
NSCLC	JASPER (n=142)	
Cervical	ATOMICC (n=132)* STAR (n=66)*	
Liver	n=42*	
Rectal	n=30*	
Melanoma	n=56*	
Sarcoma, Clear Cell	n=16*	
HNSCC	n=23*	
All-Comer/ Undisclosed	AMBER (n=873) CITRINO (n=200)	
Phase 2		Phase 3

**Aggregate Financial Terms**

- \$1.1B in aggregate milestone payments
- 8-25% royalty upon global dostarlimab net sales
- 1% royalty on GSK's net global sales of Zejula™ starting Jan 2021
- Additional \$60MM cash payment under amendment announced in October 2020

**Additional \$75MM in Dostarlimab Regulatory Milestones Anticipated in Upcoming 18 Months**

- ✓ dMMR Endometrial: 10MM upon 1<sup>st</sup> FDA BLA Acceptance (Received H1 2020)
- ✓ dMMR Endometrial: \$5MM upon 1<sup>st</sup> MAA acceptance by EMA (Received H1 2020)
- dMMR Endometrial: \$20MM upon 1<sup>st</sup> US Regulatory Approval (Anticipated In H2 2020)
- dMMR Endometrial: \$10MM upon 1<sup>st</sup> EU Regulatory Approval
- dMMR Pan-Tumor: 10MM upon 2<sup>nd</sup> FDA BLA Acceptance
- dMMR Pan-Tumor: \$5MM upon 2<sup>nd</sup> MAA acceptance by EMA
- dMMR Pan-Tumor: \$20MM upon 2<sup>nd</sup> US Regulatory Approval
- dMMR Pan-Tumor: \$10MM upon 2<sup>nd</sup> EU Regulatory Approval

\* Investigator sponsored trial  
dMMR = mismatch repair deficient

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(anti-PD-1 Antagonist)

Dostarlimab +  
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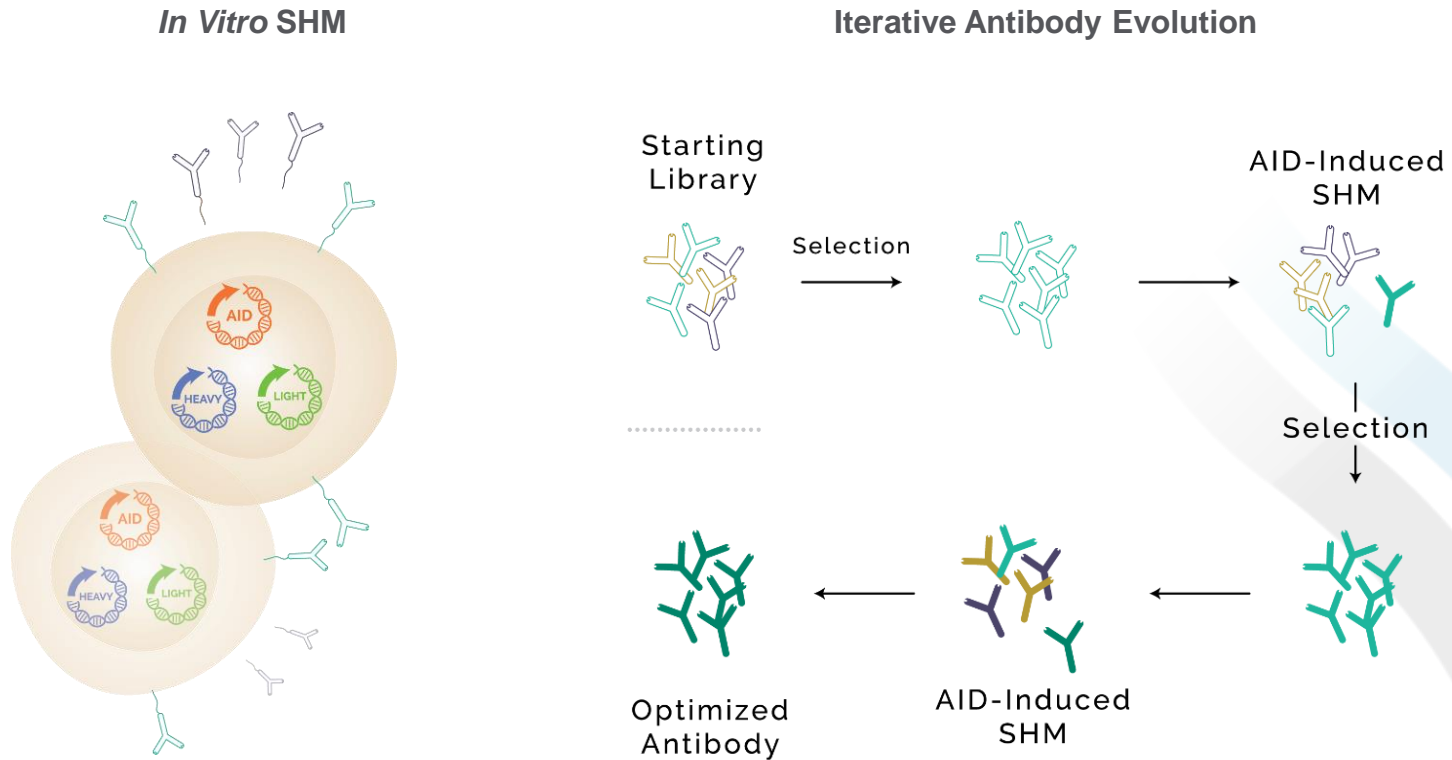
Dostarlimab +  
TSR-033 (anti-LAG-3 Antagonist)



**Proprietary Technology Platform**

# Somatic Hypermutation (SHM) Platform

*Proprietary Platform Incorporates in vitro SHM and Iterative Antibody Evolution*



*In vitro* SHM permits access to biological targets that have been difficult to address with prior antibody technologies

# Somatic Hypermutation (SHM) Platform

## *Advantages Over Competing Antibody Technologies*



- Unprecedented antibody diversity through SHM
  - *In situ* antibody diversity generation outside of the constraints of an *in vivo* environment
- High potency & functional activity
  - Only small doses may be required to convey therapeutic effect *in vivo*
- Reliable manufacturability
  - Increased probability of successful clinical and commercial manufacturing
- Speed: ~2.5 years from novel target to IND (or equivalent) filing
  - Enables rapid development of potentially first-in-class therapeutic antibodies to emerging target biology

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## Summary

# Anticipated Wholly-Owned Pipeline Catalysts



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