

# Anti-IL-33 (ANB020) Program

Phase 2a Peanut Allergy Clinical Trial Interim Data Update

March 26<sup>th</sup> 2018



**NASDAQ: ANAB** 

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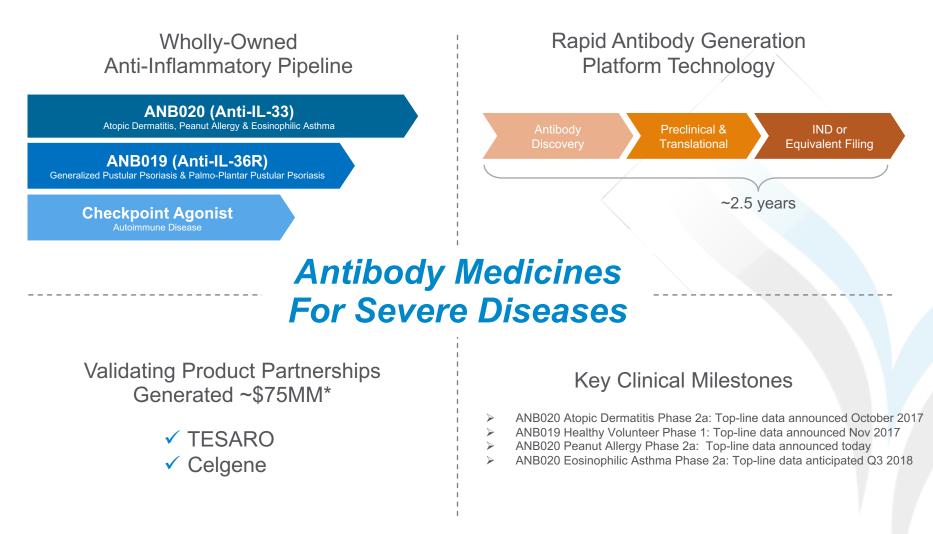
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### AnaptysBio: Clinical-Stage Antibody Development Company

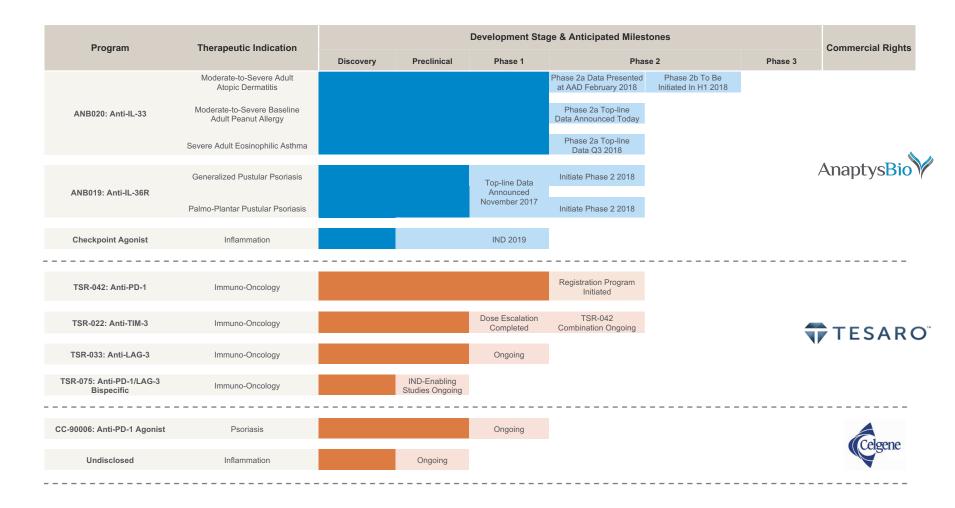
Focused on Novel Antibody Medicines for Severe Inflammatory Diseases





## Wholly-Owned and Partnered Product Pipeline

6 AnaptysBio-Generated Antibodies Advanced to Clinic Since Q1 2016



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

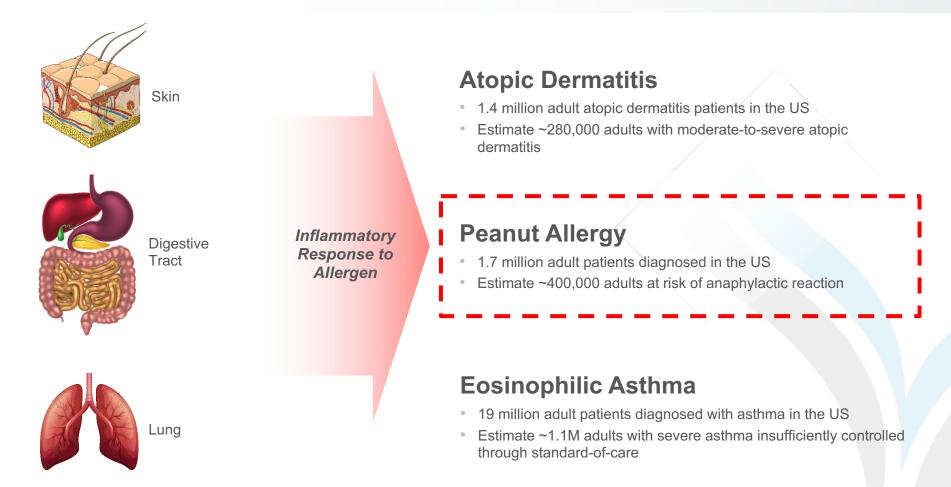


# Wholly-Owned Pipeline: Anti-IL-33 (ANB020)

Moderate-to-Severe Adult Atopic Dermatitis Moderate-to-Severe Baseline Adult Peanut Allergy Severe Adult Eosinophilic Asthma

## **Atopic Diseases: Large Unmet Medical Need**

IL-33-driven Disease Mechanism Affects Multiple Organ Systems

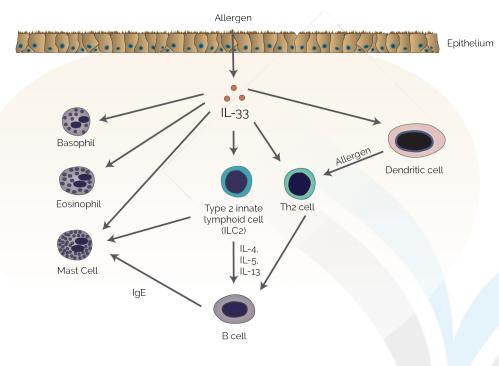


Atopic diseases occur through a common inflammatory response to an allergen, leading to concomitant incidence of multiple atopic diseases amongst some patients

#### ANB020: First-in-Class Anti-IL-33 Antibody

Broadly Applicable to Atopic Diseases

- IL-33 is an upstream driver of atopic disease
  - Human genetics validate key role of IL-33 in atopic dermatitis and asthma
  - Pro-inflammatory cytokine released upon allergen contact with epithelium
  - Activates downstream release of IL-4, IL-5 and IL-13
  - Modulates IgE-mediated mast cell and basophil degranulation
- ANB020 is a potentially first-in-class anti-IL-33 cytokine antibody
  - Phase I healthy volunteer trial completed without dose-limiting toxicities
    - Up to 3 month pharmacodynamic effect after a single dose of ANB020 at certain doses
  - Proof-of-concept demonstrated in moderate-to-severe atopic dermatitis



IL-33 acts 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



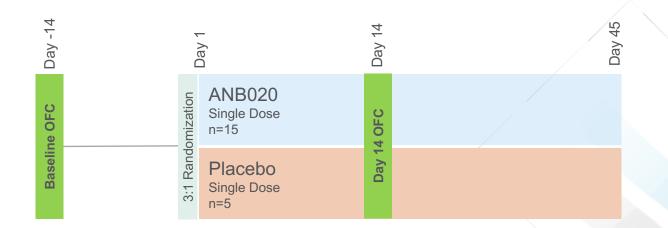
## **ANB020 Phase 2a Trials**



Indication	Trial Design	Clinical Endpoint	Data Readout
Moderate-to-Severe Adult Atopic Dermatitis	12 patients, all dosed with placebo followed by single dose of ANB020	Eczema Area & Severity Index (EASI)	Top-line data announced October 2017 Detailed data presented at AAD February 2018
Moderate-to-Severe Baseline Adult Peanut Allergy	20 patients, randomized 3:1 to single dose of ANB020 or placebo	Oral Food Challenge (OFC)	Top-line data announced today
Severe Adult Eosinophilic Asthma	24 patients, randomized 1:1 to single dose of ANB020 or placebo	Forced Expiratory Volume in 1 Second (FEV1)	Anticipate top-line data in Q3 2018

## **ANB020 Peanut Allergy Phase 2a Clinical Trial**

Assess Peanut Tolerance Improvement At Day 14 Following A Single Dose Of ANB020 vs Placebo



- Enrolled 20 adult peanut allergy patients with a history of anaphylaxis
- Blinded, placebo-controlled oral food challenge (OFC) evaluated peanut tolerance at Baseline OFC and Day 14 OFC in accordance with PRACTALL guidelines
  - Each OFC limited to a maximum tested cumulative peanut dose of 500mg
- Patients administered a single 300mg intravenous dose of ANB020 or placebo on a 3:1 randomized basis on Day 1
- Symptom severity at Baseline OFC and symptom improvement at Day 14 OFC adjudicated by blinded independent assessor

#### **Enrolled Patient Characteristics**

Interim Analysis Focused on Moderate-to-Severe Baseline Patients



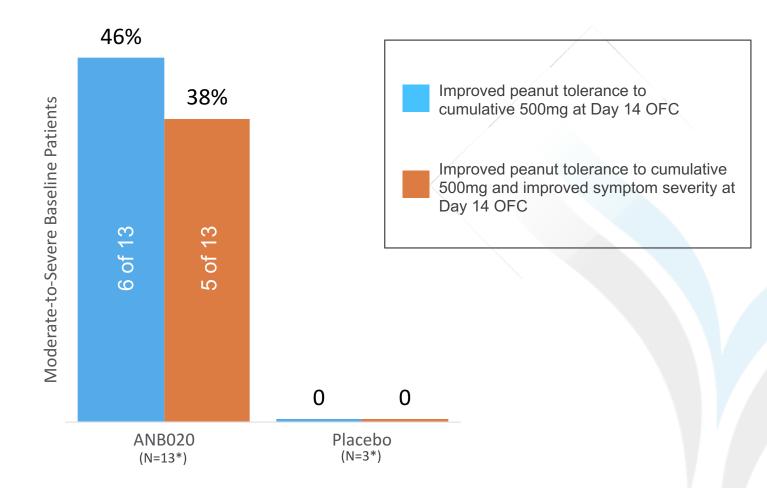
Characteristic	All Patients	Moderate-to-Severe Baseline Patients*
Ν	20	16
Average Age	30	31
Average Cumulative Peanut Tolerance at Baseline OFC	229mg	236mg
Randomization	15 ANB020 5 Placebo	13 ANB020 3 Placebo

We believe peanut allergy patients with moderate-to-severe baseline symptoms represent an unmet medical need

\* Excludes two ANB020 and two placebo dosed patients that exhibited mild symptoms at baseline

### **Top-Line Proof-of-Concept Data**

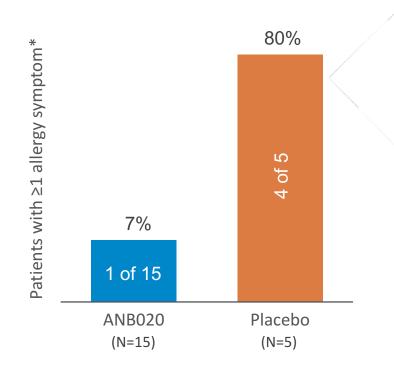
46% ANB020 Dosed vs 0% Placebo Dosed Patients With Moderate-to-Severe Baseline Symptoms Improved Peanut Tolerance to Maximum Tested Cumulative Dose of 500mg



\* Excludes two ANB020 and two placebo dosed patients that exhibited mild symptoms at baseline, of which one ANB020 dosed and two placebo dosed patients improved peanut tolerance to 500mg cumulative at Day 14

Lower Incidence of Concomitant Allergy Symptoms in ANB020 Dosed Patients 4 of 5 (80%) Placebo vs 1 of 15 (7%) ANB020 Dosed Patients Presented With Allergic Symptoms

Peanut allergy is associated with other allergic conditions, such as atopic dermatitis and asthma, which can lead to concomitant allergy symptoms, such as rhinitis, pruritus, urticaria, asthma flares and other nut allergies



\* Incidence of allergy symptoms observed as part of adverse event reporting for the trial; excludes symptoms observed during baseline and Day 14 OFC

#### Favorable ANB020 Safety Profile In Peanut Allergy Patients No Serious Adverse Events Or Dropouts Reported



- Most frequently reported adverse events to date were:
  - Headache in 4 of 15 patients dosed with ANB020, 3 mild cases and 1 moderate case
  - Mild and moderate cases of allergy-related events occurring in 4 of 5 placebo dosed patients
- No serious adverse events have been reported to date
- All 20 patients remain enrolled and no dropouts to date

#### Peanut Allergy Phase 2a Trial Interim Analysis Summary and Next Steps



- Proof-of-concept data illustrates response in adult peanut allergy patients with moderate-to-severe baseline symptoms after a single dose of ANB020
  - Day 14 readout supports potential for rapid patient benefit
  - Potential to further improve peanut tolerance with multiple doses
- Concomitant allergy symptoms observed in 80% of placebo dosed but only 7% of ANB020 dosed patients
  - Overlapping allergic diagnoses, such as atopic dermatitis and asthma, often result in concomitant pruritus, rhinitis, asthma flares and other nut allergies
  - Suggests ANB020 may address multiple concomitant allergic conditions on an allergen-independent basis
- ANB020 was well-tolerated and no patients have dropped out
- Plan to present detailed data from this trial at a future medical conference
- Interim analysis from this Phase 2a trial supports advancement of ANB020 development in moderate-to-severe baseline adult peanut allergy
  - Plan to initiate a multi-dose Phase 2b trial

#### AnaptysBio: Clinical-Stage Antibody Development Company

Focused on Novel Antibody Medicines for Severe Inflammatory Diseases



