## **INTROMMUNE** THERAPEUTICS

Transforming Food Allergy Treatment Via a Novel Immunotherapy Technology Platform We are developing a novel **immunotherapy technology platform** with multiple applications that reinvents how food allergies are managed in a **multi-billion \$ market**.

We will transform lives by addressing the unmet needs of people living with food allergies through development of solutions that optimize **safety, efficacy and adherence.** 



### Our first application targets the >\$7 billion peanut allergy market



## **Executive Summary**



## Problem

#### • Large, growing market:

>220 million people globally with food allergies; 32 million in U.S.

#### • Significant unmet need: Causes severe health events & lifestyle impacts, with no cure

Sub-optimal treatment options:

Current solution doesn't deliver robust safety, efficacy & adherence profile



• Novel approach, multiple applications: Oral Mucosal Immunotherapy (OMIT) for food allergy desensitization

#### • Significant differentiation:

Dramatically reduced risk profile vs competition\*; built-in adherence via toothpaste delivery

#### Positive Phase 1 / 2 study results: Met primary and secondary objectives demonstrating safety and adherence; indications of efficacy; provides clear

direction for Phase 2 pediatric trial



- Multi-billion \$ market:
  First application targets peanut allergies; ~\$7B TAM in U.S. alone
- Minimal competition:

Only one peanut allergy product approved & acquired for \$2.6B

## • Opportunity to get in early, high expected ROI:

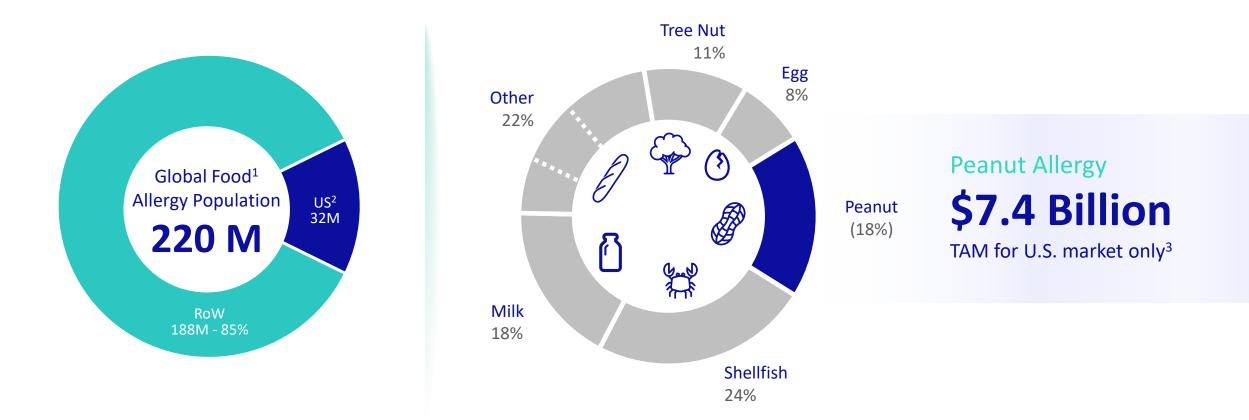
Clinical trials showing early positive results; strong IP portfolio

## Intrommune is currently seeking \$38 million in Series B funding





### Food allergies have become a serious public health concern as prevalence increases globally







## Significant Medical & Lifestyle Impacts





## severe health events **40-50%+**

of people with food allergies have experienced a severe allergic reaction<sup>\*1</sup>



# MEDICAL CARE **200,000**

Americans require emergency medical care each year for allergic reactions to food<sup>1</sup>



FEAR **92%** of parents feel fearful for their child's

safety because of food allergies<sup>2</sup>



# social exclusion **5 in 10**

families with food allergies skip out on important school functions<sup>2</sup>



DISRUPTION

of parents had to make a career change to care for their child with food allergies<sup>2</sup>



# \$25 Billion

spent annually by U.S. families caring for children with food allergies<sup>1</sup>



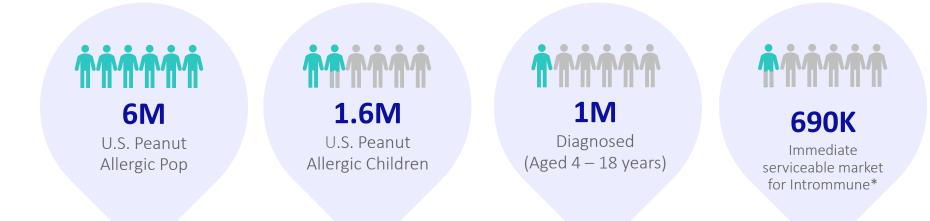
\* > 40% of children and >50% of adults
 1 FARE Facts and Statistics https://www.foodallergy.org/resources/facts-and-statistics Accessed January 27, 2023
 2 Asthma and Allergy Foundation of America, My Life with Food Allergies Survey, April 2019

## THERAPEUTICS

Food Allergies Represent a Multi-Billion Dollar Opportunity



## LARGE & GROWING UNMET NEED



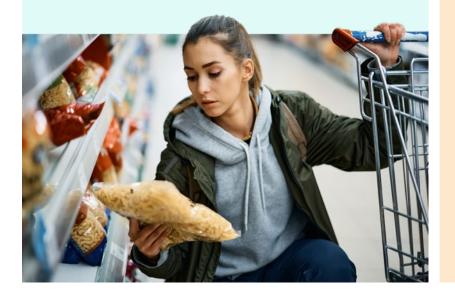


\*Assumes 60% (child), 2% (adult) seek treatment 1 GlobalData Peanut Allergy Report 2018 2 Price at January 2020 approval. price on September 10, 2023 is \$14,880/year per



#### LIFESTYLE SOLUTIONS

- Avoidance of problem foods
- Learn to recognize and treat reaction symptoms (e.g. EpiPen<sup>®</sup>)



#### **IMMUNOTHERAPY SOLUTIONS**

- Only one product ever approved for food allergy (Palforzia<sup>®</sup> for peanuts)
- Does not fully deliver on safety, ease of adoption & adherence:



- ~9.5% experienced anaphylaxis, which may be life-threatening<sup>1</sup>
- 14% use of epinephrine reported in one Phase 3 pivotal trial<sup>1</sup>
- >35% experienced moderate\*
  treatment-related adverse events<sup>2</sup>



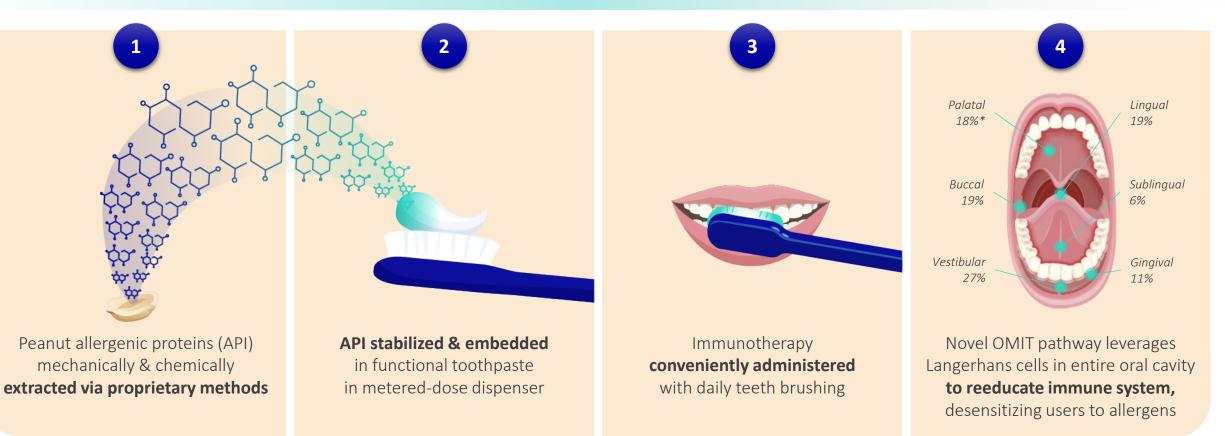
- Requires frequent visits to allergy clinic every 2 weeks for ~6 months
- 5-hour initial office visit; issue given lack of physician compensation
- Discontinuation rate of ~22%<sup>1</sup>



1 Palforzia package insert, based on pooled results of two Phase 3 studies 2 Brown KR, Baker J, Vereda A, et al. Safety of peanut (Arachis hypogaea) allergen powder-dnfp in children and teenagers with peanut allergy: Pooled summary of phase 3 and extension trials. J Allergy Clin Immunol. 2022;149(6):2043-2052.e9. doi:10.1016/j.jaci.2021.12.780. \* Maximum severity of moderate (Grade 2)



## Food allergy desensitization transformed into easy-to-use platform via proprietary technology: Oral Mucosal Immunotherapy (OMIT)

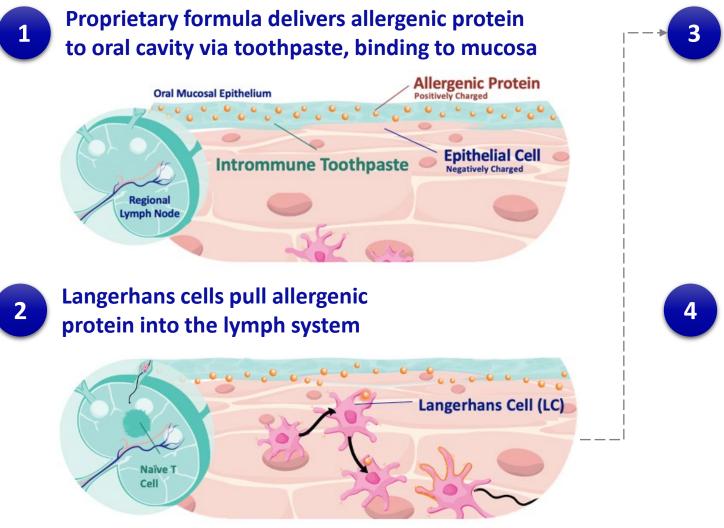


8 \* Pe Alla

\* Percentages denote distribution of Langerhans cells in oral cavity Allam JP, et al. *Allergy*. 2008; 63(6):720-727

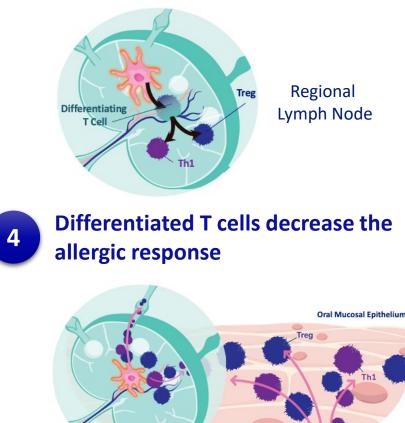
THERAPEUTICS

## How Oral Mucosal Immunotherapy Works





Langerhans cells trigger the reeducation of immune system





## Why OMIT?

#### **Built-in Adherence**

- Simple toothpaste delivery integrates into existing daily routine
- Power Bluetooth-integrated toothbrush + app allows adherence tracking and gamification
- Opportunity to be maintenance product for patients started on other solutions

#### **Lower Adoption Barriers**

- Fewer, shorter up-dosing office visits required
- No peanut flavor
- Ease of use enables patients to live their lives without fear



#### Significantly Reduced Risk Profile

- Absorbed in mouth (processed via lymph system) then spat out, reducing risk of systemic reactions and GI distress
- Phase 1 / 2 OMEGA study indicates the platform is safe



#### **Efficacious - Maximizes Oral Absorption**

Covers all major portions of mouth, activating 16x number of Langerhans cells\* Targeting faster time to reach efficacy target

## **OMIT vs. Palforzia®**

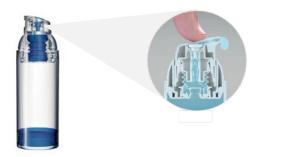
	<b>OMIT / Intrommune</b> (oral mucosal)	OIT / Palforzia® (oral)
DELIVERY	Embedded in toothpaste (spat out after brushing)	Ingested with food <i>(enters GI system)</i>
SIMPLICITY	Integrated with daily care	Must add daily to food
SAFETY	Significantly reduced adverse events	High rate of anaphylaxis and GI pain
EFFICACY	Expected to be more efficacious	Proven efficacy



## Significant progress made to advance and de-risk development

#### **Product Development**

- Process established for extracting peanut allergen protein
- Method created for stabilizing protein in functional toothpaste
- Packaging developed: pump dispenser



#### Regulatory

- Clear approval pathway identified
- IND filed & accepted; highly collaborative FDA review
- Faster path to market: No toxicology, pharmacokinetics or animal models required
- Exploring breakthrough designation



#### Clinical

- Phase 1/2 DBPC OMEGA Trial\* in adults complete
  - Met all primary and secondary safety endpoints
  - Exploratory objectives evaluated efficacy
- Due to impressive safety profile to date, FDA greenlit pediatric Phase 2 study prior to completion of our adult Phase 1 / 2 study



## **Clinical Data for Primary, Secondary and Exploratory Endpoints Available Under NDA**



Met primary and secondary objectives. Demonstrated exemplary safety throughout all 4 cohorts, reflected in both number and type of AEs

OO Adherence

97% adherence to study treatments (patient reported)



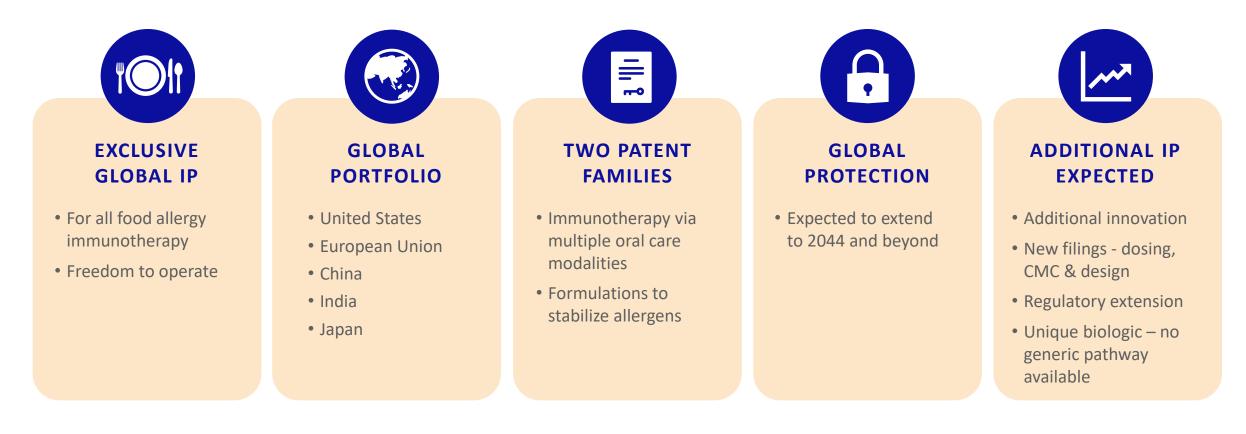
Exploratory objective provided indications of efficacy in difficult to treat adult population



0% product-related participant dropout rate



## IP covers all food allergens across multiple oral care formats, with 48 patents to date







## \$38 million in funding for Phase 2 pediatric study and for pipeline development

### Series A and Bridge - \$10 Million

#### Accomplished

- Exclusive global rights to OMIT for food allergy
- INT301 formulation developed
- IND accepted
- Completed Phase 1 / 2 (Adults)

#### Investors



#### **Chemical Angel Network**

#### Series B - \$38 Million

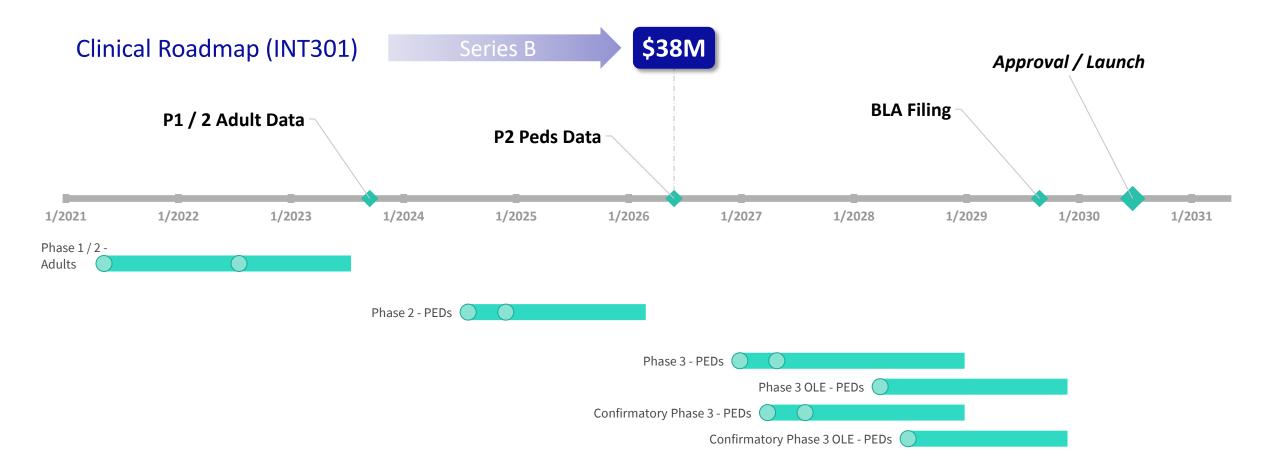
#### Goals

- Phase 2 clinical trial in pediatric population
- Finalize CMC processes, prepare for full commercialization
- Product development to expand to new applications
- Identify strategic and market opportunities
- Shape market & establish brand prior to launch





## Series B Funding Will Cover Phase 2 Studies





## Experienced Leadership Team



Experience successfully bringing innovation to market, including in biotech, pharma and allergy markets:

















<u>Michael Nelson, JD</u> Chief Executive Officer



Ray Forslund Head of Chemistry, Manufacturing & Controls



Stuart Loesch President & Chief Commercial Officer



William Berger, MD, MBA Head of Medical Affairs



Alain Van Loo Chief Operating Officer



Wendy Perrow, MBA Head of Innovation



Nandini Murthy Head of Regulatory



Christopher Schuster, MBA Chief Financial Officer





## Intrommune offers attractive opportunity that targets an established, reimbursed market

- Large, growing market with established reimbursement Peanut allergy TAM of ~\$7B in U.S. alone
- Multiple applications & opportunities enabled by unique immunotherapy platform technology
- Minimal competition Only one peanut allergy product ever approved for any food allergy
- ✓ **OMIT highly differentiated** vs. current OIT solution, with expected safety, efficacy & adherence benefits:
  - Intrommune's Peanut INT301 is best-in-class agent 9 in 10 subjects<sup>1</sup> will use
  - Opportunity to position as "maintenance product of choice" for those started on other immunotherapies
- Comparator Aimmune acquired for \$2.6 billion with Palforzia<sup>®</sup> product only 1 in 10 subjects<sup>2</sup> will use;
  administered via GI tract, has significant side effects, is difficult to administer, experiences poor patient adherence



1 Marketing survey of 137 peanut allergy patients and parents. <u>https://www.globenewswire.com/en/news-release/2020/02/03/1978768/0/en/Survey-Confirms-Physician-Interest-in-Peanut-Allergy-Immunotherapy.html</u>. 2 Patrawala S, et al. Real-World Adoption of FDA-approved Peanut Oral Immunotherapy with Palforzia. *J Allergy Clin Immunol Pract*. 2022 Apr;10(4):1120-1122.e1. (Presented as Poster #343 at the AAAAI 2021 Annual Meeting).



## Disclosures



#### **Important Information**

The information regarding the proposed private placement offering by Intrommune Therapeutics is being provided to you on a confidential basis only and should not be disclosed to anyone other than your professional advisers on a confidential basis for purposes related to your interest in the company. This information should not be divulged, reproduced or disseminated without our consent.

Only qualified "accredited investors" as defined in Regulation D under the Securities Act of 1933, as amended will be permitted to participate in the proposed offering. Additional suitability requirements may apply.

These materials do not constitute either an offer to sell or an offer to purchase securities. Any purchase of securities will be made pursuant to and governed by a subscription agreement between the company and the investor, and the company will have the right to accept or reject subscriptions in its sole discretion. There is no minimum amount of subscriptions we must receive before we close on any subscription.

We will make available to any prospective purchaser and such person's advisers the opportunity to ask questions and receive answers concerning the terms and conditions of the proposed offering, the company, or any other relevant matters, and to obtain any additional information to the extent the company possesses such information.

Any investment in Intrommune Therapeutics involves a high degree of risk. You should carefully read all of the risk factors attached to the subscription agreement prior to any investment. There is no assurance that an investment will be profitable at any time.

Neither Intrommune Therapeutics nor any of its equity interests are registered with the Securities and Exchange Commission or the securities regulator of any state.

This communication contains forward-looking statements, which can be identified by, among other things, the use of forward-looking language, such as the words "plans," "intends," "believes," "expects," "anticipates," "estimates," "projects," "potential," "may," "will," "would," "could," "seeks," or "scheduled to," or other similar words, or by discussion of strategy or intentions. Forward-looking statements are based upon management's present expectations or strategies regarding the future and are subject to known and unknown risks and uncertainties that could cause actual results, events or developments to be materially different from those indicated in such forward-looking statements. No assurance can be given that the future results covered by the forward-looking statements will be achieved. The information contained herein and in the documents enclosed herewith is current only as of the date hereof and you should not, under any circumstances, assume that there has not been any change in the matters discussed herein or in the documents enclosed herewith since the date hereof.

All trademarks, logos and brand names used in this presentation are the property of their respective owners.



## THANK YOU

## THERAPEUTICS

Alain Van Loo Chief Operating Officer <u>avanloo@intrommune.com</u> (+1) 917-916-3171

