



A Revolutionary Delivery
Platform for Food Allergy
Immunotherapy



Our Mission



INTROMMUNE is developing **simple, safe** and **effective** health solutions for individuals suffering with food allergy so that they and their loved ones can live their lives **without fear**



Executive Summary



Experienced team

- Raised over \$8b, collaborated on over 160 life science deals
- Successfully worked on dozens of clinical programs



Huge unmet need

- Global opportunity > 220mm worldwide have food allergies, including 32 million in the U.S.
- Peanut allergy market to grow 1700-fold from 2017-2027, expected TAM of \$7b+



Low risk allergy immunotherapy via toothpaste drug delivery platform with global, exclusive IP rights

- Simple – Brush your teeth once per day as part of an already existing daily routine, imbedded adherence
- Safe – Phase 1b study demonstrates the platform is safe
- Efficacious – University studies show food proteins in the oral cavity desensitize patients



High expected returns on investment

- Comparator acquired for \$2.6 billion with product only 1/10 will use due to significant adverse event profile
- Peanut INT301 is best in class agent – 9/10 will use with total addressable U.S. market in excess of \$7 billion
- Multiple opportunities with platform technology and both near-term and long-term inflection points



Minimal competition with only one peanut allergy product ever approved for any food allergy

Raising \$45 million Series B

Proven Leadership Team



Michael Nelson, JD | Chief Executive Officer



Stuart Loesch | Chief Commercial Officer



Alain Van Loo | Chief Operating Officer



Prof. Dr. Sergi Trilla | Chief Strategy Officer



Nandini Murthy | Head of Regulatory



Wendy Perrow, MBA | Head of Innovation



Ray Forslund | Head of Chemistry, Manufacturing & Controls



Christopher Schuster | Director of Finance



Advisors



BUSINESS



[Jotin Marango, MD, PhD](#) | Corporate Strategy & Finance Advisor, Chair

[Tonya Winders, MBA](#) | Stakeholder Outreach Advisor

[Terrence Tormey](#) | Business Development Advisor

[Jack Levitt, MBA](#) | Executive Development Advisor

[Mark Durham](#) | Human Capital Advisor

[Moe Vela](#) | Government Affairs Advisor

SCIENCE



[Professor William Reisacher, MD](#) | Inventor of OMIT; Senior Scientific Advisor, Chair

[Sharon Chinthrajah, MD](#) | Medical advisor

[Lara Gross, MD](#) | Medical Advisor

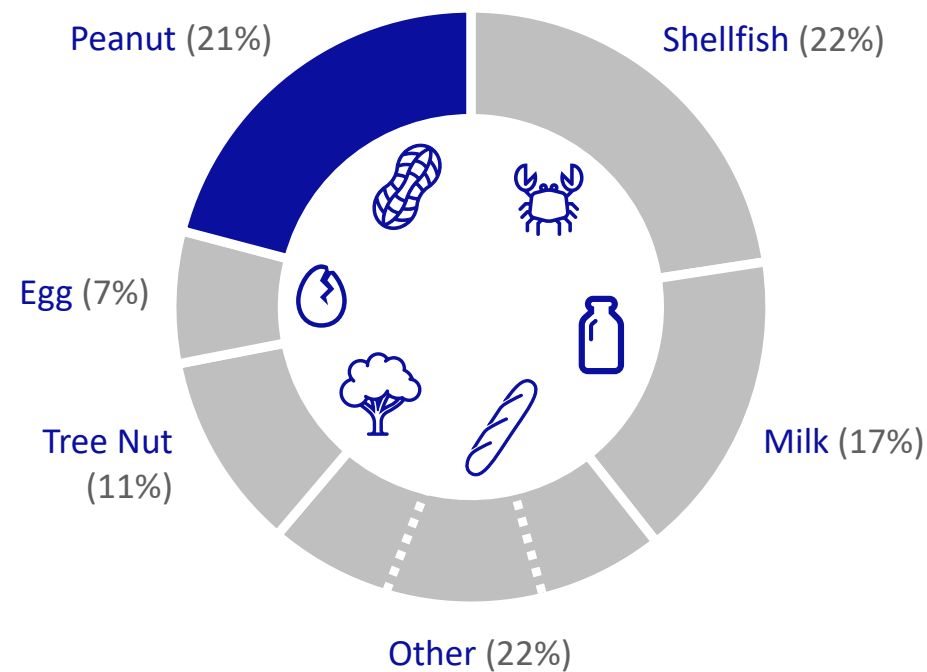
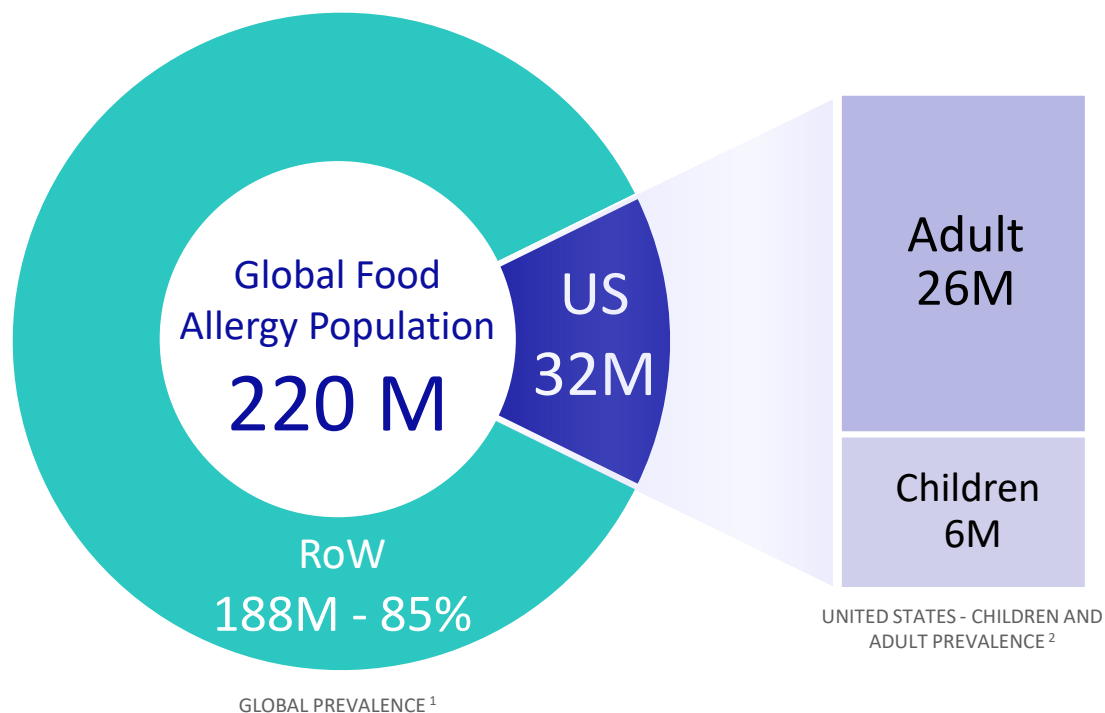
[Greg Plunkett, PhD](#) | Extract Advisor

[Saul Fink](#) | CMC Advisor

[Anthony Robinson, CRNP, MBA](#) | Clinical Advisor

[Gerry Kugel, DMD, PhD](#) | Dental Advisor

Global Food Allergy Metrics: Large Addressable & Multi-opportunity Market



“GlobalData is forecasting the peanut allergy market to grow an astounding 1,700-fold from 2017 – 2027.”³

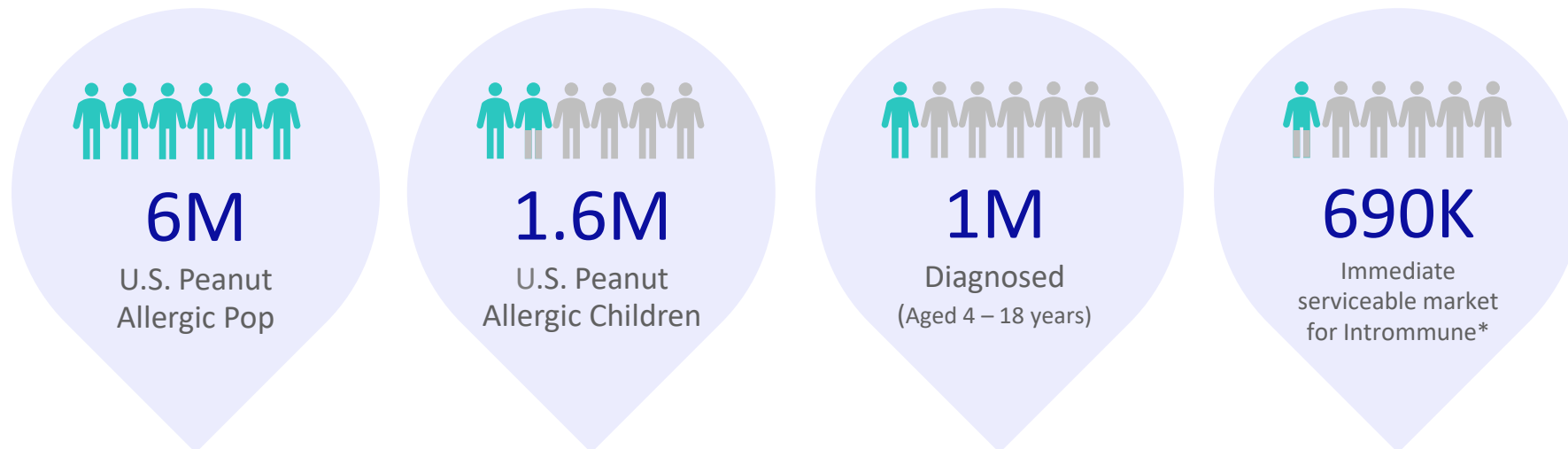
U.S. Peanut Allergy Key Investment Metrics



OPPORTUNITY

TAM:	Insurance Coverage:	OIT Price/Year Per Patient:	Solutions/Expectations:
\$7,369,200,000	Yes	\$10,680	<ul style="list-style-type: none">• Reduce adverse effects• Better adherence• Increased efficacy• Multi-product platform

INCREASINGLY UNMET NEED



INT301 - Introducing a Novel, Simplified Approach to Allergy Desensitization

INT301 Delivers Therapeutic Agents Through Oral Mucosal Immunotherapy (OMIT)



Embedded food derived
allergen proteins



Administered at the same time
patients brush their teeth



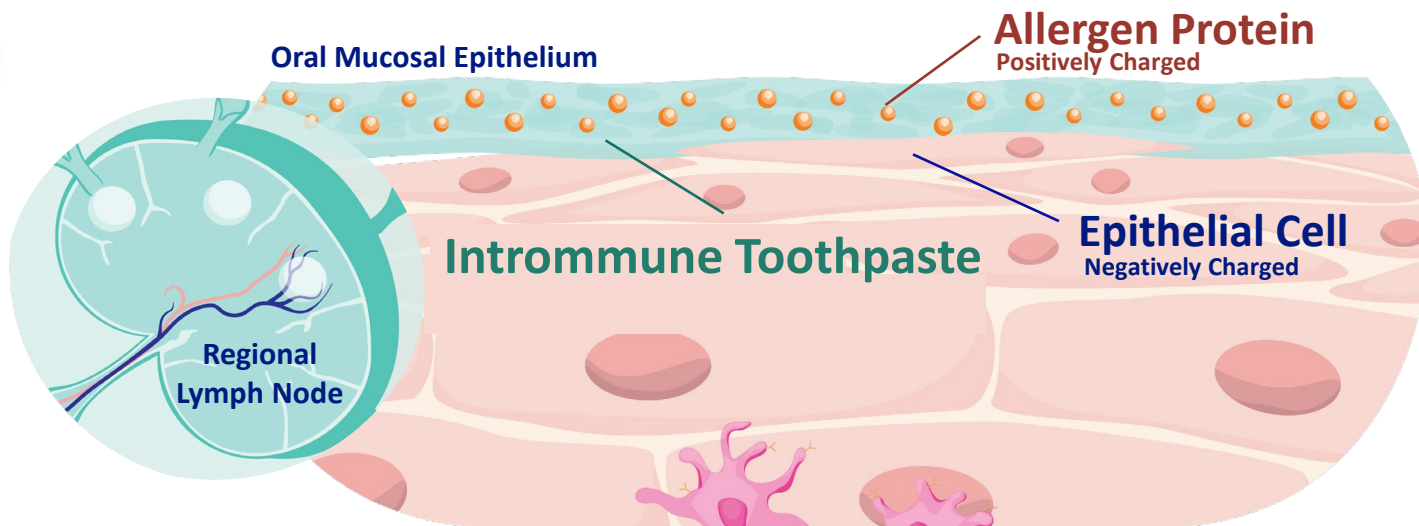
INT301 convenient daily
immunotherapy



STEP 1 OF 4

Intrimmune toothpaste delivers allergen protein

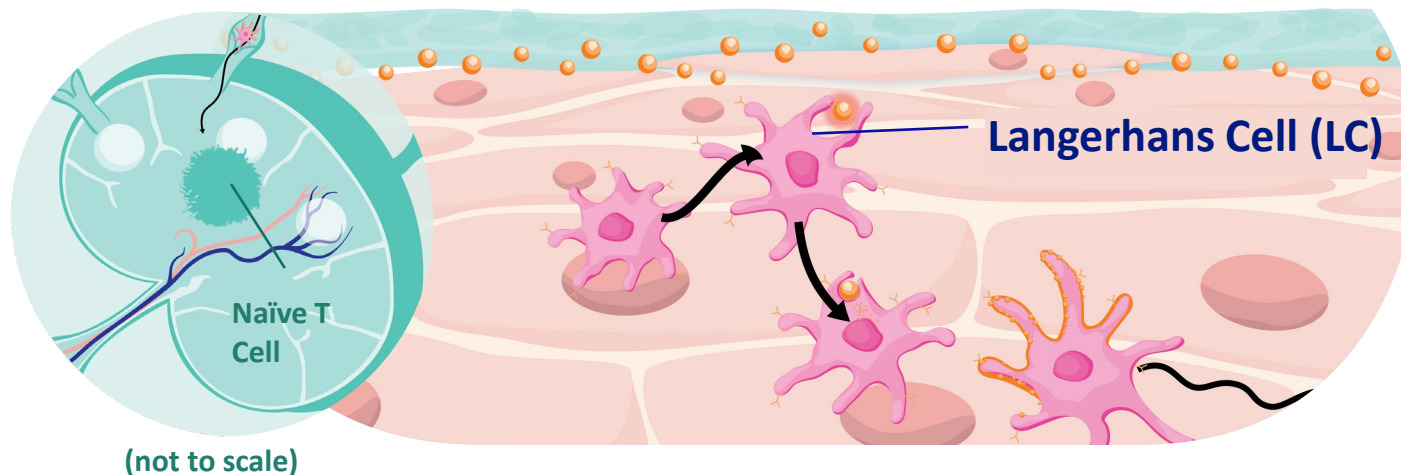
Toothpaste slurry coats the mouth so more allergen protein can bind with cells on the surface of the oral mucosal epithelium. The opposing charges of the protein and surface cells attracts them to each other to form a strong bond.



STEP 2 OF 4

Langerhans cells process and display allergen proteins

Oral Langerhans cells capture allergen protein as it diffuses into the oral mucosa, displaying key identifiers on their surface before travelling to regional lymph nodes.

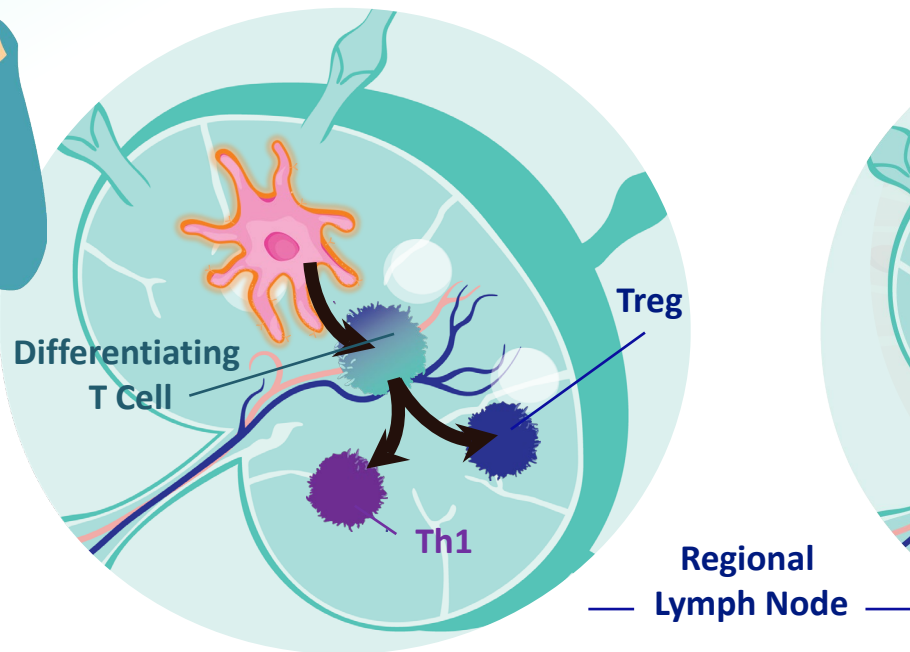


INT301 MOA (cont'd)

STEP 3 OF 4

Langerhans cells trigger the re-education of the immune system

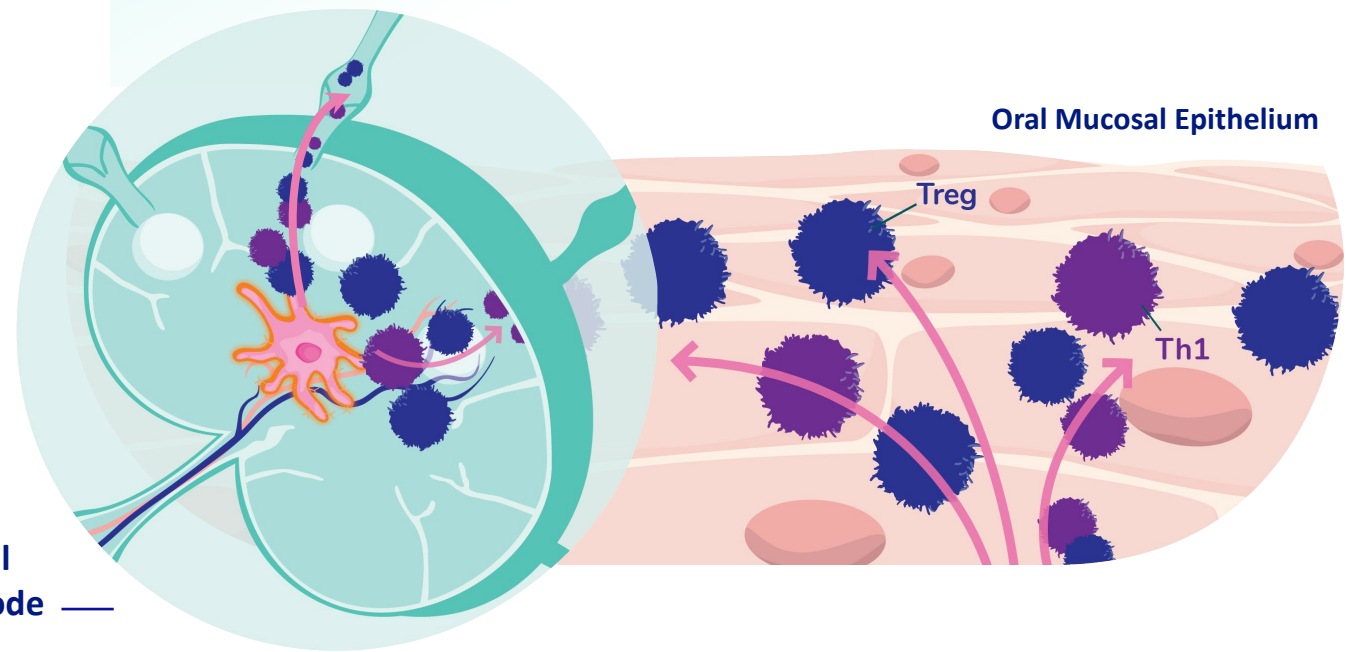
Once in the regional lymph nodes Langerhans cells activate naive T cells causing them to differentiate into either T regulatory (Treg) cells or T helper type 1 (Th1) cells.



STEP 4 OF 4

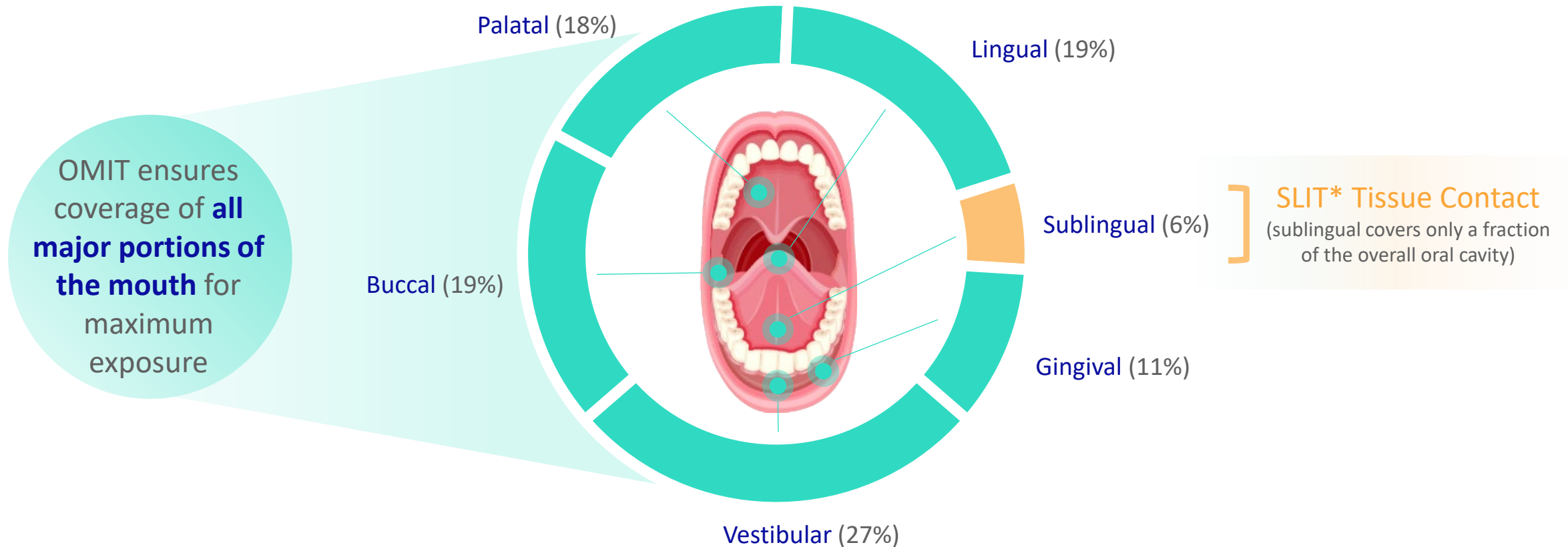
Differentiated T Cells decrease the allergic response

Treg and Th1 cells travel through lymph vessels and distribute themselves throughout the mucosa of the aerodigestive tract where they decrease the allergic immune response the next time there is exposure to the specific allergen protein.



Oral Mucosal Immunotherapy (OMIT) Versus Sublingual (SLIT) Coverage

**INT301 toothpaste allows
Comprehensive tissue contact**



Significant Peanut SLIT Safety & Efficacy Studies: Precedent for INT301 (OMIT)

PI/First Author	Study Status	Comments	Subjects	Duration	Safety	Efficacy
Wesley Burks/Edwin Kim	Published 2011 ¹	1 st clinical evidence of desensitization	18 children age 1-11	12 months, ongoing follow-up	No emergency epinephrine in 4,182 active doses	20x increase in peanut safely consumed
Wesley Burks/David Fleischer	Published 2013 ² , 2015 ³	1 st double-blind placebo controlled trial	40 subjects age 12-37	68 weeks	1 of 11,854 active doses required epinephrine	Statistically significant desensitization in majority
Robert Wood	Published 2015 ⁴	Compare efficacy & safety of peanut SLIT (3.7mg/day) vs. OIT (2000mg/day)	21 children age 7-13	18 months	SLIT significantly superior in safety	SLIT effective; OIT efficacy superior, but 4/11 dropped out
Edwin Kim/Wesley Burks	Published 2019 ^{5,6,7}	Effect of long-term SLIT (2.0mg/day)	48 children age 1-11	36-60 months	>75,000 doses administered; 0.21% req. antihistamine. No epinephrine use	67% of participants (86% of study completers) protected to ≥750mg peanut protein. Sustained unresponsiveness observed
Edwin Kim/Wesley Burks	Abstract presented 2021 AAAAI ⁹	DBPC study in youngest group of peanut allergic children yet	50 toddlers (age 1-4)	36 months	>20K active doses; less than 0.4% symptom medication use, primarily for oral itch; no epinephrine use	Active dose group protected to median 4443mg peanut; 12 out of 19 treated exhibited sustained unresponsiveness after 3 months off therapy

INT301 Offers a Simple, Safe and Unique User Experience

User Experience

Single use packaging

- Ensures accurate dosing
- Decreased risk for misuse or dosing mix ups
- Allows for portability/on the go

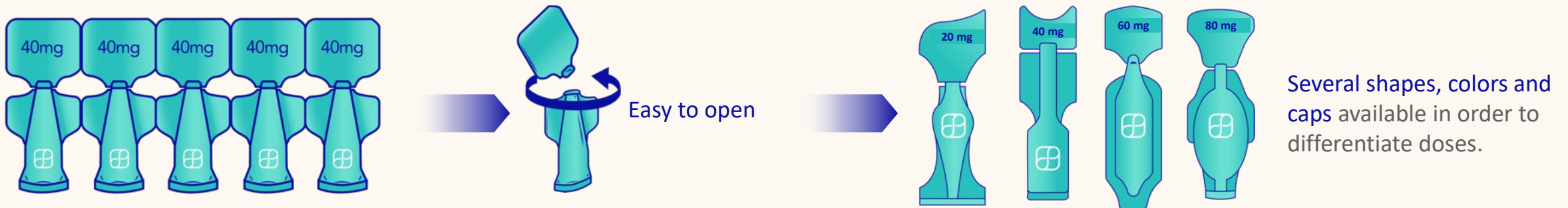
Significantly reduced AE profile

Patient finishes brushing, the API (peanut protein) is expelled, thus less risk of systemic adverse events

High compliance

Safe and simple social practice which increases likelihood of continued use

Multiple Single-Use Packaging



Intellectual Property



EXCLUSIVE GLOBAL IP

- For all food allergy immunotherapy
- Freedom to operate



GLOBAL PORTFOLIO

- United States
- European Union
- China
- India
- Japan



TWO PATENT FAMILIES

45 patents to date

- Toothpaste-allergens for immunotherapy
- Formulations to stabilize allergens



GLOBAL PROTECTION THROUGH 2034

- Potential to extend to 2043



ADDITIONAL IP EXPECTED

- Additional issuances (innovation)
- New filings
 - Dosing, CMC & design
- Regulatory extension



Phase 1b Study Underway OMEGA (INT301-101)

CRO engaged

IND filed & accepted



Highly collaborative

No toxicology review (API is peanut protein)

No pharmacokinetics due to route of administration

No animal models

CURRENTLY ENROLLING PATIENTS: Phase 1 OMEGA Study of the Safety and Feasibility of Up-titration With INT301 in Adults With Sensitivity to Peanut



OMEGA (Oral Mucosal Escalation Goal Assessment) is a randomized, double-blind, placebo-controlled study in adult participants with peanut allergy. Participants will be randomized in a 3:1 ratio to receive either an escalating dose of INT301 or placebo. The treatment group will be blinded to the investigator, participants, and the Intromune study team.

This ongoing study will capture diverse sets of clinical data, which we believe will act as value drivers in the near term and help us to define the registrational path of INT301 in the medium term.



Primary Outcome Measures:

- To evaluate the safety of INT301 compared to placebo in adult peanut allergic participants as measured by dose escalation during study.
- Percentage of participants able to consistently tolerate the protocol-specified highest dose; Incidence of systemic and non-systemic adverse reactions.



Secondary Outcome Measures:

- To evaluate pharmacologic requirements as interventions for peanut allergic participants experiencing adverse events on INT301.
- Number of participants requiring treatment for systemic reactions related to experimental treatment or placebo; Adherence to study treatment.



Exploratory Outcome Measures:

- To explore changes in peanut-specific IgG4 and IgE levels in participants

Capital Milestones and Goals

Series A
\$6M
(closed)

INVESTORS:



Chemical Angel Network

ACCOMPLISHED:

- Exclusive global rights to OMIT for food allergy
- INT301 formulation developed
- IND accepted
- Phase 1b

INVESTORS:

Focus on strategic partners (investors), private and venture capital

GOALS:

- Launch Phase 2 (2022)
- Chemistry, Manufacturing & Controls (CMC) implementation
- Onboarding and securing key resources
- Media and professional branding / marketing push
- Identify liquidity and market opportunities

Series B
\$45M

Valuation Projections: Post-phase 1b



Target Valuation:
\$300-400mm

Expected target 6-12 months

With significant upside:

- Safe, simple and controlled manufacture
- Positive social and health impact
- Numerous synergies and partnerships

Valuation: \$199mm

- Complicated manufacturing
- No public comparables at time
- Limited evidence of efficacy

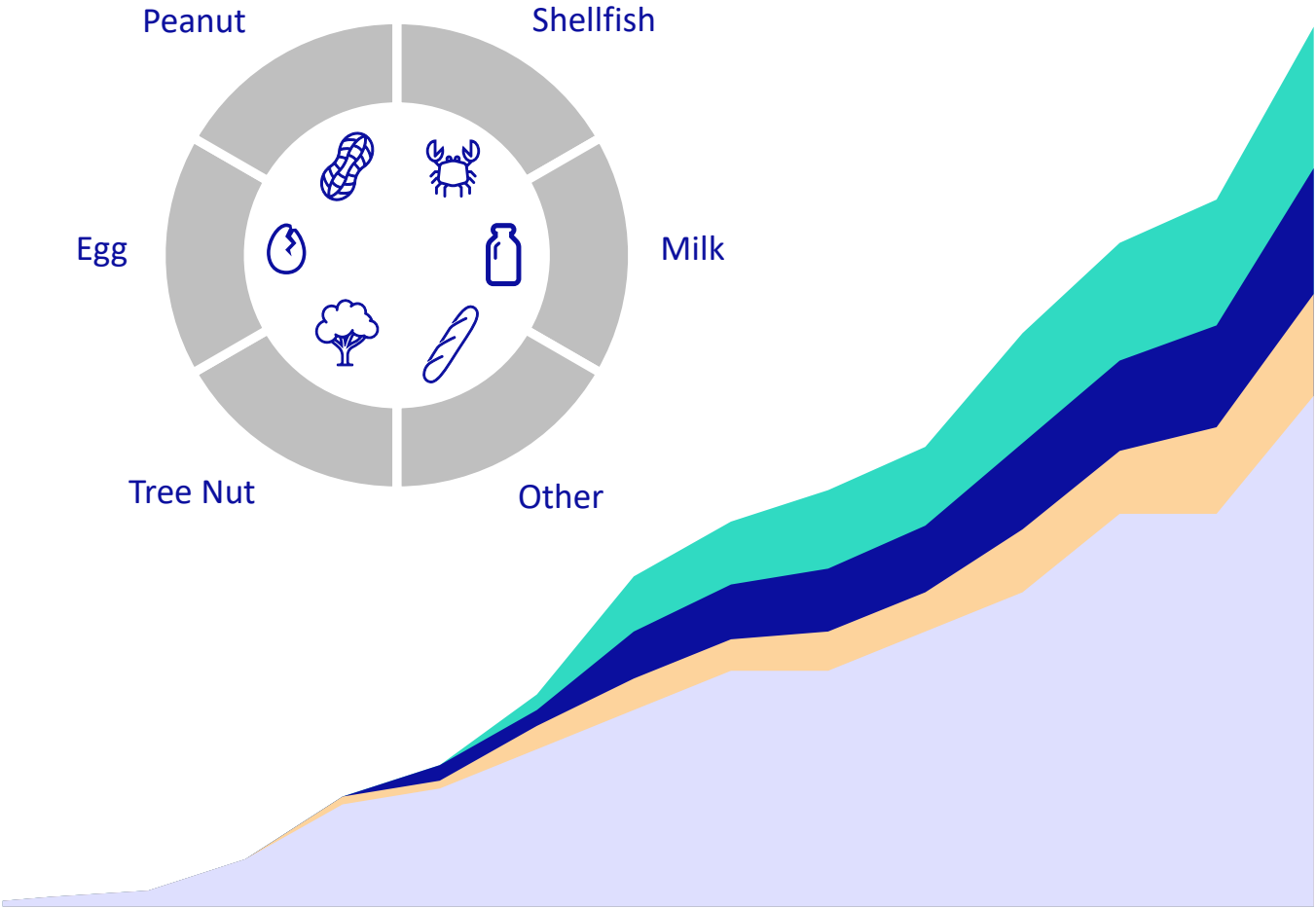


Valuation: \$500mm
(Cash + 10% royalties)

- DNA vaccine – high risk
- Potential for germline effects



Global Delivery Platform - Strategic Potential



POTENTIAL VALUE ADD THROUGH GLOBAL PARTNERSHIPS/LICENSING OPPORTUNITIES

- INT301 U.S. Base Valuation Projection
- Ex-U.S. INT301
- Global INT3** Single Protein
- Global INT3** Multi-protein

Key Comparator – Aimmune Therapeutics – PALFORZIA®














OMIT makes lifelong usage easy without the adverse events observed with OIT



Acquired for \$2.6B

- OIT technology with NO revenue when acquired
- Inconvenient delivery
 - Patients must add peanut powder to semi-solid food daily
- Significant adverse event profile
 - Increased systemic allergic reactions
 - Increased discontinuation due to AEs
 - Increased reports of EoE (chronic, allergic inflammatory disease)
- Restrictive REMS (Risk Evaluation and Mitigation Strategy)
- Increases risk of emergency epinephrine requiring ER visit
- Many patients will have to take product for life

INT301 Simple, Safe and Effective Versus Competitors

		  	 	 
	OMIT	OIT	EPIT	Injection
SIMPLICITY	 Built in adherence	 Requires adding to food daily	 Patch adhesion issues	 Requires injection
SAFETY	 Significantly reduced AEs	 High rate of anaphylaxis Requires REMS program	 Potential exposure risk	 Potential systemic AE's
EFFICACY	 Expected to be more efficacious	 Proven efficacy	 Low efficacy	 Efficacy not proven

Intrommune opportunity at-a-glance



**Revolutionary patented
commercial grade
toothpaste drug-
delivery platform**



Greater efficacy expected

- 12x mucosal coverage in comparison to SLIT
- Targets entire oral cavity surface
- Contacts more optimal areas of mouth
- Dosing >2mg (2mg = 300mg OIT)



Positive financials

- Series A: \$6mm
- Series B : \$45mm



**Expected to
be safe, no
epinephrine use**



**Built-in adherence
with daily routine**

- No adverse taste or difficulty in administration
- Reinforces positive habits – oral health
- Reduces anxiety / Don't have to feel afflicted



**Platform for
multiple food allergy
treatments**

Disclosures



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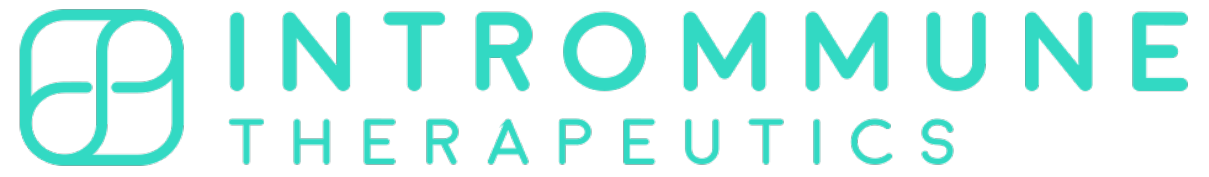
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Thank You