

# Researcher discovers peanut allergy mechanism in the intestines

January 6 2020

---



Credit: Pexels

Peanut allergens cross a model of the gut lining, causing it to leak, new research by Dr. Dwan Price from Deakin University in Victoria has revealed.

The allergens hijack the transport mechanisms of cells in the intestine, disrupting the bonds that hold the gut lining together, making it permeable.

"This is an extremely exciting finding because it helps explain why peanut allergens are so very potent," Dr. Price says.

"It helps us understand why [peanut allergy](#) persists lifelong and only trace amounts are needed to trigger fatal anaphylaxis."

"It's important to note, that this work was performed on [intestinal cells](#) and doesn't mean that peanuts will make your gut leaky. What it means is we know more about this powerful allergen and how it acts to trigger allergy"

The discovery provides new opportunities to tackle the condition, which affects 4% of the population. These include finding ways to prevent the allergen attacking the gut lining—and the development of a novel nut that doesn't trigger an allergic reaction.

**More information:** Dwan Price et al. Identifying Epithelial Endocytotic Mechanisms of the Peanut Allergens Ara h 1 and Ara h 2, *International Archives of Allergy and Immunology* (2017). [DOI: 10.1159/000451085](#)

Dwan Price et al. Nuts 'n' guts: transport of food allergens across the intestinal epithelium, *Asia Pacific Allergy* (2013). [DOI: 10.5415/apallergy.2013.3.4.257](#)

Provided by Science in Public

Citation: Researcher discovers peanut allergy mechanism in the intestines (2020, January 6)  
retrieved 27 April 2024 from  
<https://medicalxpress.com/news/2020-01-peanut-allergy-mechanism-intestines.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.