# Article information:

Histamine and T helper cytokine-driven epithelial barrier dysfunction in allergic rhinitis - PubMed
<https://pubmed.ncbi.nlm.nih.gov/29074456/>

# Article summary:

1. Allergic rhinitis (AR) is characterized by mucosal inflammation, driven by activated immune cells such as mast cells and TH2 cells, which might decrease epithelial barrier integrity in AR, maintaining a leaky epithelial barrier.

2. Histamine and nasal secretions of AR patients rapidly decreased epithelial barrier integrity in vitro, while pretreatment with histamine receptor-1 antagonist prevented the early effect of nasal secretions of AR patients on epithelial integrity.

3. Supernatant of activated TH1 and TH2 cells impaired epithelial integrity, while treatment with anti-TNF-α or anti-IL-4Rα monoclonal antibodies restored the TH1- and TH2-induced epithelial barrier dysfunction, respectively. IL-4, IFN-γ, and TNF-α enhanced mucosal permeability in mice.

# Article rating:

Appears moderately imbalanced: The article provides some useful information, but is missing several important points or pieces of evidence that would be required to present the discussed topics in a balanced and reliable way. You are encouraged to seek a more balanced perspective on the presented issues by exploring the provided research topics and looking at different information sources.

# Article analysis:

作为一篇研究性文章，该文对过敏性鼻炎的发病机制进行了探讨，并提出了一些实验结果和结论。然而，在阅读该文章时，我们需要注意以下几点：

1. 潜在偏见及其来源：该文章没有明确说明作者的背景和利益关系，可能存在潜在的偏见。此外，该研究只涉及到少数样本和动物模型，因此其结论可能不具有普适性。

2. 片面报道：该文章只关注了组织屏障的变化，而忽略了其他可能影响过敏性鼻炎发生和发展的因素。

3. 无根据的主张：该文章提出了一些假设和推测，但并未提供足够的证据来支持这些主张。

4. 缺失的考虑点：该文章没有考虑到其他可能影响组织屏障完整性的因素，如环境污染、药物使用等。

5. 所提出主张的缺失证据：尽管该文章提出了一些假设和推测，但并未提供足够的证据来支持这些主张。

6. 未探索的反驳：该文章没有探讨其他学者对于其结论和假设的反驳和质疑。

7. 宣传内容：该文章可能存在一些宣传内容，如对某些药物的推广等。

8. 偏袒：该文章可能存在对某些观点或实验结果的偏袒。

9. 是否注意到可能的风险：该文章没有明确说明其研究可能带来的风险和不确定性。

10. 没有平等地呈现双方：该文章只关注了过敏性鼻炎发生机制中的一部分因素，而忽略了其他可能影响过敏性鼻炎发生和发展的因素。

# Topics for further research:

* Author background and potential bias
* One-sided reporting
* Unsupported claims and hypotheses
* Missing considerations of other factors
* Lack of evidence for proposed claims
* Unexplored counterarguments

# Report location:

<https://www.fullpicture.app/item/65b7c118bd15071f123be0bc3958b648>