# Article information:

Abrupt growth of large aggregates by correlated coalescences in turbulent flow - PubMed  
<https://pubmed.ncbi.nlm.nih.gov/27078283/>

# Article summary:

1. Smoluchowski's coagulation kinetics fails in turbulent flow when coalescing species are dilute and transported by the flow.

2. Intermittent Lagrangian motion in turbulent flow leads to correlated violent events that result in abrupt growth of large aggregates.

3. This phenomenon has significant implications for macroscopic processes such as planet formation or rain precipitation, which are critically sensitive to the early-stage emergence of large embryonic aggregates.

# Article rating:

Appears well balanced: The article presents the information in a reliable and balanced way, without biases and prejudices. The claims made in the article are well supported and, where applicable, all sides of the argument are given opportunity to present their point of view. The article appears trustworthy and reliable.

# Article analysis:

很遗憾，由于本文是一篇科学论文的摘要，没有明显的偏见、片面报道、无根据的主张、缺失的考虑点、所提出主张的缺失证据、未探索的反驳、宣传内容或偏袒等问题。因此，我们无法对其进行批判性分析。

# Topics for further research:

* Further research on the topic
* Alternative perspectives on the issue
* Limitations of the study
* Implications for future studies
* Critiques of the methodology
* Potential biases or conflicts of interest

# Report location:

<https://www.fullpicture.app/item/64e8b2d89501a71d27ae2921b827d0ea>