

# Accepted Manuscript

Kinetic modeling of the retention and fate of inhaled cerium oxide nanoparticles in rats: The cumulative displacement volume of agglomerates determines the outcome

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PII: S0273-2300(17)30083-1

DOI: [10.1016/j.yrtph.2017.03.023](https://doi.org/10.1016/j.yrtph.2017.03.023)

Reference: YRTPH 3808

To appear in: *Regulatory Toxicology and Pharmacology*

Received Date: 3 January 2017

Revised Date: 24 March 2017

Accepted Date: 30 March 2017

Please cite this article as: Pauluhn, J., Kinetic modeling of the retention and fate of inhaled cerium oxide nanoparticles in rats: The cumulative displacement volume of agglomerates determines the outcome, *Regulatory Toxicology and Pharmacology* (2017), doi: 10.1016/j.yrtph.2017.03.023.

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1 **Manuscript No.: RTP-17-5**

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3 **Kinetic Modeling of the Retention and Fate of Inhaled Cerium Oxide Nanoparticles in**  
4 **Rats: The Cumulative Displacement Volume of Agglomerates Determines the**  
5 **Outcome.**

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11 **Running title:** Modeling of Particle-Induced Pulmonary Toxicity

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