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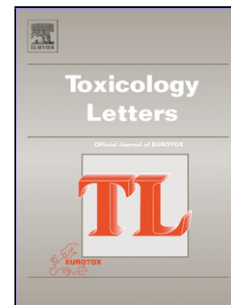
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Re-Defining Kinetic Lung Overload: Time for New Paradigms

Running title: Re-Defining Kinetic Lung Overload

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Highlights

- Repeated exposure inhalation studies with poorly soluble particles should be structured by kinetic modeling
- The displacement volume of aggregated particles is the key metric for dose-response analyses
- The NOAEL and MTD should be expressed relative to the kinetic overload threshold
- The elimination kinetics of poorly soluble particles is linked to the total count of BAL-cells

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