

Exposure to Characterized Cu Nanoparticles

Inhalation exposure
(4 hr/d, 5 d/week, 2 weeks; 3.5 mg/m³)

Instillation exposure
(24 hr post-exposure; 3, 35, 100 µg/mouse)

Exposure group	# of mice per dose & group
Inflammation (BALF evaluation)	6
Lung histopathology	3
Dosimetry (lung burden of Cu)	6
Pulmonary mechanics	6 (inhalation only)
6 treatment groups	Total N = 76

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After NP exposure – characterize pulmonary responses and the body burden of Cu

Exposure group	# of mice per dose & group
Bacterial clearance	8 (Cu NP), 6 (sham)
6 treatment groups	Total N = 44

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Instill *Klebsiella pneumoniae*
($1.4 \pm 0.1 \times 10^5$ CFUs/mouse)

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At 24 hr - Homogenize, culture and enumerate bacteria