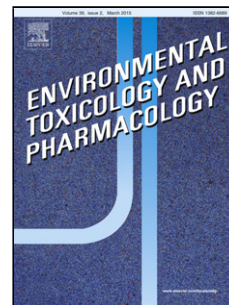


## Accepted Manuscript

Title: Intestinal epithelial cell injury induced by copper containing nanoparticles in piglets

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PII: S1382-6689(17)30268-5  
DOI: <http://dx.doi.org/10.1016/j.etap.2017.09.010>  
Reference: ENVTOX 2883

To appear in: *Environmental Toxicology and Pharmacology*

Received date: 17-5-2017  
Revised date: 4-9-2017  
Accepted date: 15-9-2017

Please cite this article as: Zhang, Hui, Wu, Xiaoxing, Mehmood, Khalid, Chang, Zhenyu, Li, Kun, Jiang, Xiong, Nabi, Fazul, Ijaz, Muhammad, Rehman, Mujeeb Ur, Javed, Muhammad Tariq, Zhou, Donghai, Intestinal epithelial cell injury induced by copper containing nanoparticles in piglets. *Environmental Toxicology and Pharmacology* <http://dx.doi.org/10.1016/j.etap.2017.09.010>

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**Intestinal epithelial cell injury induced by copper containing nanoparticles in piglets**

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**Highlights:**

- We studied the effect of nano copper particles on intestinal epithelial cells injury.
- Nano copper particles can induce cellular injury.
- Administration of lower doses of nano copper in commercial feed is recommended in piglets.

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