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PII: S0378-4274(18)30149-8
DOI: https://doi.org/10.1016/j.toxlet.2018.04.012
Reference: TOXLET 10160

To appear in: *Toxicology Letters*

Received date: 25-1-2018
Revised date: 23-3-2018
Accepted date: 12-4-2018

Please cite this article as: Gu, Xueyan, Qi, Yongmei, Feng, Zengxiu, Ma, Lin, Gao, Ke, Zhang, Yingmei, Lead (Pb) induced ATM-dependent mitophagy via PINK1/Parkin pathway.Toxicology Letters https://doi.org/10.1016/j.toxlet.2018.04.012

Lead (Pb) induced ATM-dependent mitophagy via PINK1/Parkin pathway

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Highlights

- Lead induces PINK1/Parkin-mediated mitophagy *in vitro* and *in vivo.*
- Lead-activated ATM interacts with PINK1.
- ATM affects the phosphorylation of PINK1 and Parkin.

Abstract

Lead (Pb), a widely distributed environmental pollutant, is known to induce mitochondrial damage as well as autophagy *in vitro* and *in vivo*. In this study, we found that Pb could trigger mitophagy in both HEK293 cells and the kidney cortex of male Kunming