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Title: Consecutive evaluation of graphene oxide and reduced graphene oxide nanoplatelets immunotoxicity on monocytes

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Highlights

In short term, GONPs and rGONPs induce differential cytotoxicity in THP-1 cells.

In long term, GONPs and rGONPs damage endocytosis and phagocytosis in THP-1a.

GONP have a higher impact on membrane proteins and higher damage on phagocytosis.

rGONPs are easier to be uptake and show higher damage on endocytosis.

The amount of rGONPs entering cells is higher, which cause more damage in F-actin.

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