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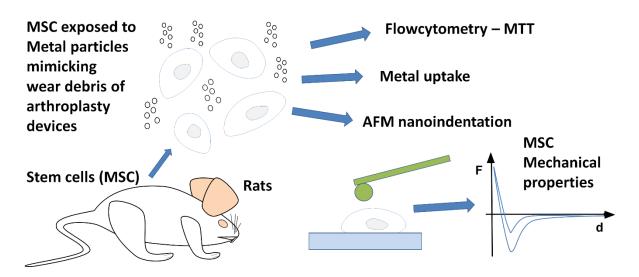
Cobalt and Titanium Nanoparticles Influence on Mesenchymal Stem Cell Elasticity and Turgidity

by

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Graphical Abstract



Highlights

- Titanium and Cobalt wear debris impact metabolic activity but not viability of MSCs
- Nano mechanical properties of MSCs exposed to metal debris were determined with AFM
- Titanium impacts MSCs properties is smaller than Cobalt
- Cell uptake of Cobalt is greater than Titanium

word count

abstract: 148 complete manuscript word count: 4788 number of references: 50 number of figures/tables: 8/0 * Corresponding author: Dr. Polina Prokopovich e-mail: prokopovichp@cardiff.ac.uk School of Pharmacy and Pharmaceutical Sciences

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