# Overcoming radiation resistance by iron-platinum metal alloy nanoparticles in human copper transport 1-overexpressing cancer cells via mitochondrial disturbance

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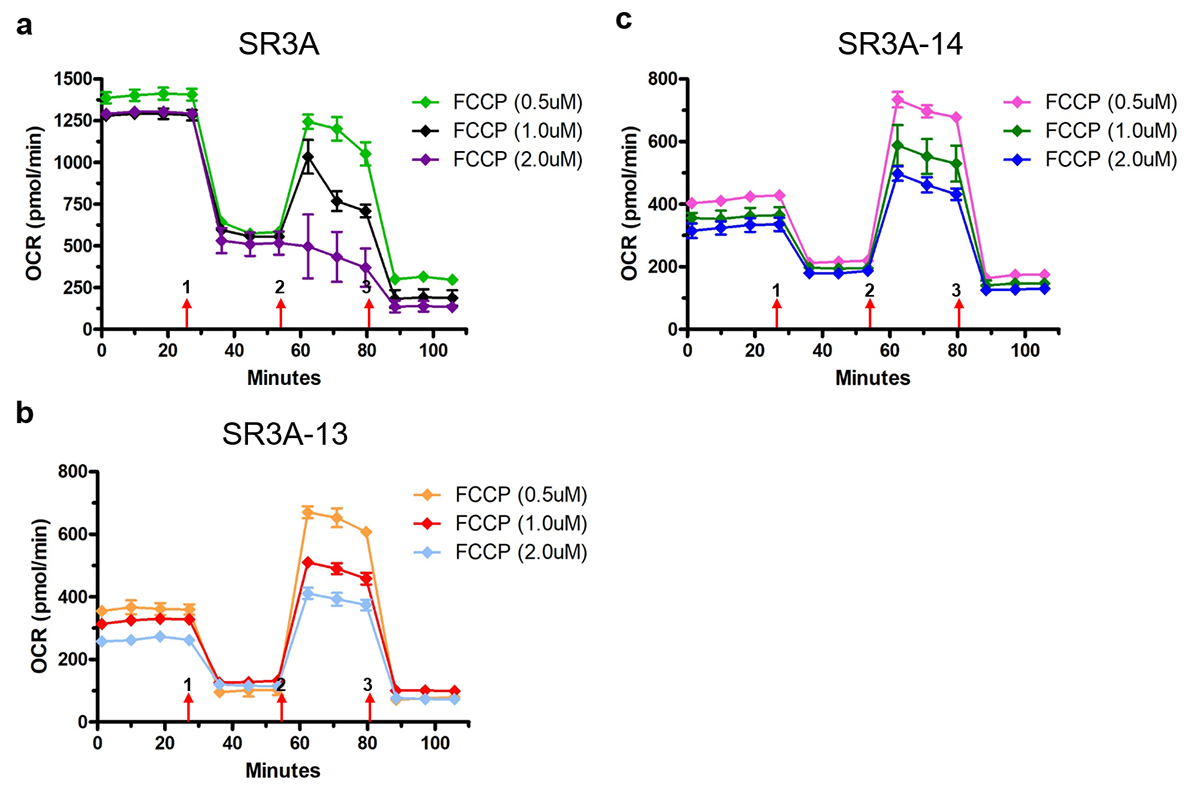
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**Supplementary Fig. S1** Mitochondrial morphology and structure were intact in SR3A cells, SR3A-13 cells and SR3A-14 cells without FePt NPs treatment.



**Supplementary Fig. S2** Validation of different concentrations of FCCP (0.5, 1.0 and 2.0 μM) for optimizing the oxygen consumption rate in (**a**) SR3A, (**b**) SR3A-13 and (**c**) SR3A-14 cells.

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**Supplementary Fig. S3** Establishing stable clones of hCtr1-overexpressing cells by using *hCtr1*-transfected parental SR3A cells. (**a**) The expression level of hCtr1 was measured by western bolts in different selected clones. Clone #3 was selected and named as SR3A-hCtr1-WT for further experiments. (**b**) Uptake of FePt NPs was assayed by ICP-OES.

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**Supplementary Fig. S4** Validation of different concentrations of FCCP (0.5, 1.0 and 2.0 μM) for optimizing the oxygen consumption rate in SR3A-hCtr1-WT cell.