Reactive oxygen and nitrogen species inside murine macrophages

ROS and RNS:
\[ \text{O}_2^\cdot-, \text{H}_2\text{O}_2, \text{ONOO}_2^-, \text{NO} \text{ and } \text{NO}_2^- \]

**Question**: do ROS/RNS leak from phagolysosomes into the cytoplasm?

activated macrophage RAW 264.7
Detecting ROS/RNS inside and outside the cell
Monitoring ROS/RNS release

OUTSIDE
10 µm platinized carbon electrode

INSIDE
50 nm platinized Pt electrode