



Transmission electron microscopic (TEM) observation, energy dispersive spectroscopy (EDS) and electron diffraction analyses of M-cells exposed to TiO_2 -NPs. TEM image of a M-cell where TiO_2 -NPs have been internalized and are stored in a cytoplasmic compartment (A), higher magnification image of the area defined in A (B). EDS imaging of Ti (C, red) and O (D, blue) distribution in B. EDS spectra recorded on the area 1, 2 and 3 as defined in B. Electron diffraction analysis of the area 3 defined in B (F) and analysis of this diffractogram by calculation of a/b , a/c , a/d and a/e inverse distance ratios (1/nm) and comparison with the diffraction lines of anatase and rutile references (G).