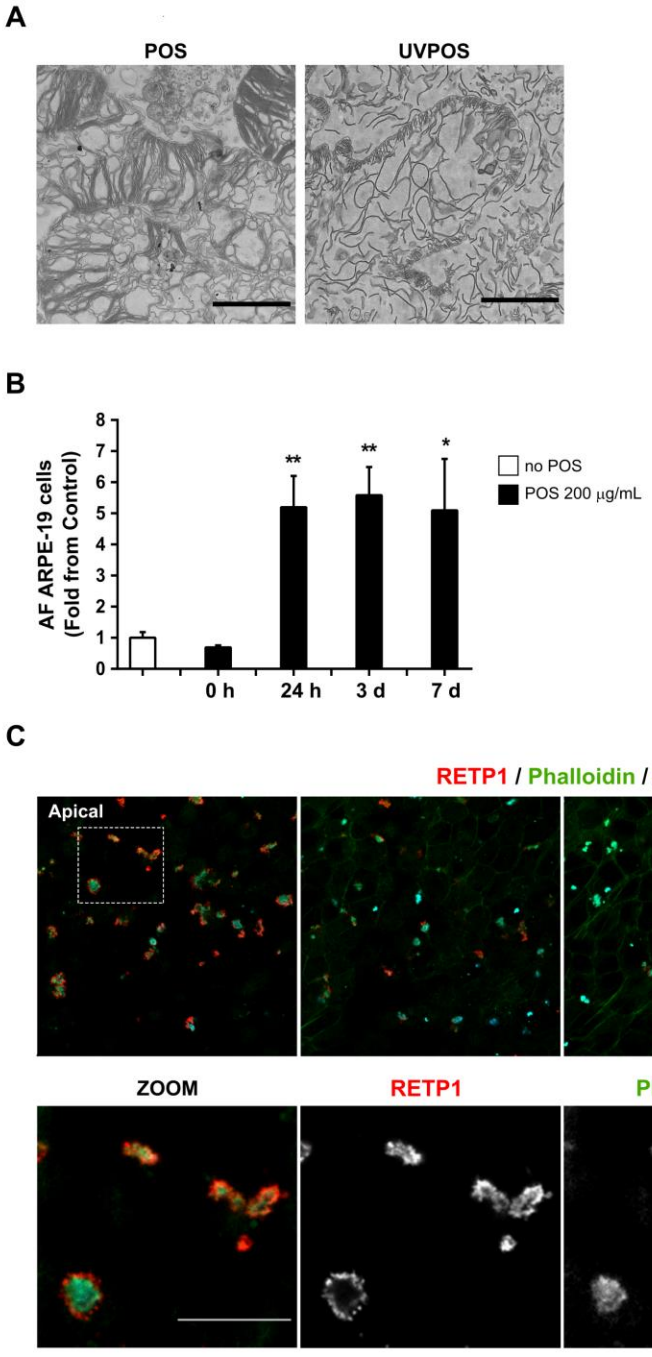
A
POS
UVPOS
B
AF ARPE-19 cells
(Fold from Control)
0
1
2
3
4
5
6
7
8
**
**
*
no POS
POS 200 μg/mL
0 h
24 h
3 d
7 d
C
RETP1 / Phalloidin / AF
Apical
Basal
ZOOM
RETP1
Phalloidin
AF

Figure S1

Figure S1. Kinetics of AF appearance in different RPE cell lines. (**A**) Porcine POS and UV-irradiated POS were isolated as described in “Material and Methods”. Pellets were processed for EM and random sections of the pellet were imaged. Scale bar: 2 µm. (**B**) ARPE-19 cells pulsed with 200 µg/mL POS were monitored at the indicated time points after POS incubation. AF levels were quantified by flow cytometry as in “Material and Methods” and are represented as mean ± SEM of 3 independent experiments, performed in duplicate. Statistical comparison was performed using one-way ANOVA followed by Dunnet’s multiple comparison test, significant differences are relative to cells with no POS (**P<0.01; *P<0.05). (**C**) hfRPE cells were pulsed with 200 µg/mL, chased for 3 days and AFGs were visualized by confocal immunofluorescence microscopy (blue). Rhodopsin-positive POS were detected using an anti-rhodopsin antibody (RetP1, red) and Phalloidin staining (green) was used to monitor cell limits. Different Z-slices are represented from the basal to apical cell layer. The region outlined with a square was zoomed (ZOOM) and the different channels separated. Images are representative of three independent experiments. Scale bar: 20 µm.