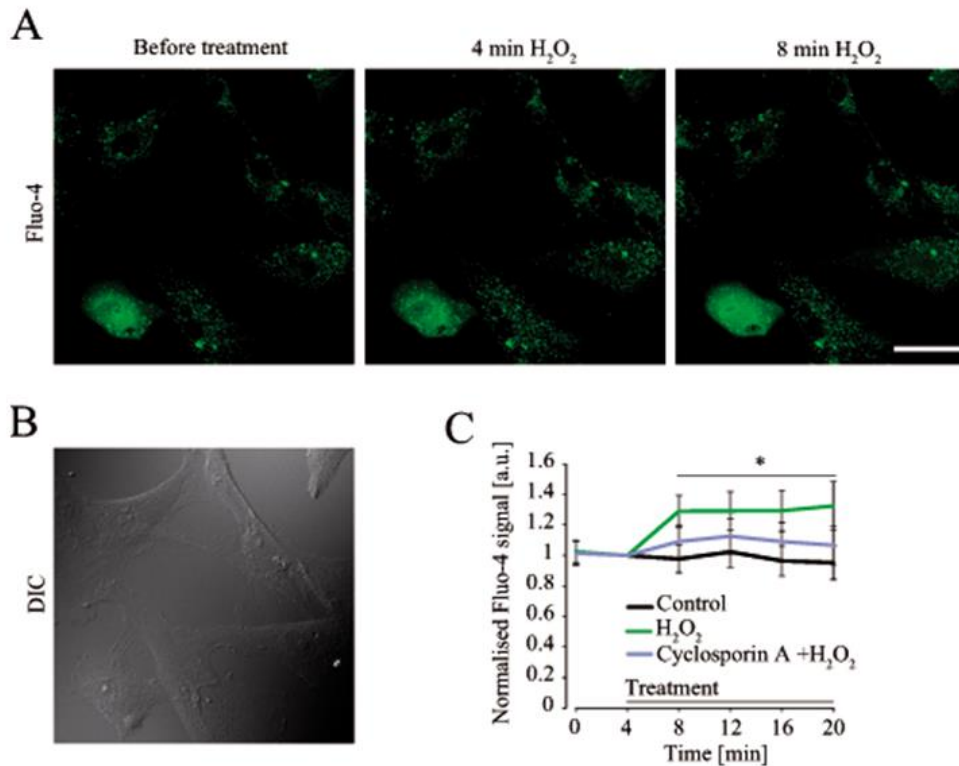


**UCC Library and UCC researchers have made this item openly available.
Please [let us know](#) how this has helped you. Thanks!**

Title	Activation of the NFAT–calcium signaling pathway in human lamina cribrosa cells in glaucoma
Author(s)	Irnatén, Mustapha; Zhdanov, Alexander V.; Brennan, Deirdre; Crotty, Thomas; Clark, Abbot; Papkovsky, Dmitri B.; O'Brien, Colm
Publication date	2018
Original citation	Irnatén, M., Zhdanov, A., Brennan, D., Crotty, T., Clark, A., Papkovsky, D. and O'Brien, C. (2018) 'Activation of the NFAT–calcium signaling pathway in human lamina cribrosa cells in glaucoma', Investigative Ophthalmology and Visual Science, 59(2), pp. 831-842. doi: 10.1167/iovs.17-22531
Type of publication	Article (peer-reviewed)
Link to publisher's version	http://iovs.arvojournals.org/article.aspx?articleid=2672464 http://dx.doi.org/10.1167/iovs.17-22531 Access to the full text of the published version may require a subscription.
Rights	© 2018, the Authors. This work is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License . https://creativecommons.org/licenses/by-nc-nd/4.0/ https://creativecommons.org/licenses/by-nc-nd/4.0/
Item downloaded from	http://hdl.handle.net/10468/5615

Downloaded on 2022-10-04T22:01:30Z

Supplementary Figure S1



Supplementary Figure S1: Effect of cyclosporin A on H₂O₂-induced elevation of intracellular Ca²⁺ in normal LC cells. Fluo-4/AM loaded LC cells were pre-incubated overnight with CsA (10 μM) at 37°C, and H₂O₂ (100 μM) was applied in the continued presence of CsA. Change of [Ca²⁺]_i was determined by confocal microscopy. (A). Fluo-4 fluorescence images before and after addition of H₂O₂ (100 μM) for 4 min and 8 min. Images represent the stacks of 12 focal planes collected with 0.25 μm steps. (B). DIC image of LC cells grown on tissue culture. (C). Analysis of calcium dynamics upon stimulation of cells with H₂O₂. Signals are normalised to that collected immediately prior to H₂O₂ addition and changes in cytosolic Ca²⁺ levels in cells upon treatment with H₂O₂ (100 μM) were compared to that in cells pre-treated overnight with CsA (10 μM). Bars show means ± standard deviations. Scale bar is 50 μm. Note H₂O₂ induced significant elevation of intracellular Ca²⁺ (**p*<0.05, two-tailed unpaired student's *t*-test), and this elevation was significantly inhibited by CsA pre-treatment (10 μM) (**p*<0.05, Mann-Whitney test).