Simvastatin inhibits TLR8 signaling in primary human monocytes and spontaneous TNF production from rheumatoid synovial membrane cultures

Article (Accepted Version)

Mullen, Lisa, Ferdjani, Jason and Sacre, Sandra (2015) Simvastatin inhibits TLR8 signaling in primary human monocytes and spontaneous TNF production from rheumatoid synovial membrane cultures. Molecular Medicine, 21. pp. 726-734. ISSN 1528-3658

This version is available from Sussex Research Online: http://sro.sussex.ac.uk/58450/

This document is made available in accordance with publisher policies and may differ from the published version or from the version of record. If you wish to cite this item you are advised to consult the publisher’s version. Please see the URL above for details on accessing the published version.

Copyright and reuse:
Sussex Research Online is a digital repository of the research output of the University.

Copyright and all moral rights to the version of the paper presented here belong to the individual author(s) and/or other copyright owners. To the extent reasonable and practicable, the material made available in SRO has been checked for eligibility before being made available.

Copies of full text items generally can be reproduced, displayed or performed and given to third parties in any format or medium for personal research or study, educational, or not-for-profit purposes without prior permission or charge, provided that the authors, title and full bibliographic details are credited, a hyperlink and/or URL is given for the original metadata page and the content is not changed in any way.

http://sro.sussex.ac.uk
Figure 1
Figure 2

A

Quanti-Blue OD at 630 nm

R-848 + SV µg/ml

B

OD at 590 nm

R-848 + SV µg/ml
Figure 3
**Figure 4**

A. Bar graph showing luciferase activity (RLU/mg protein) for different concentrations of R-848 + SV µg/ml.

B. Western blot images for R-848 + SV with α-p-p38 and α-actin as markers.

C. Western blot images for GGPP, SV, and R-848 with α-p-p38, α-p-IKK, α-GAPDH, and α-p-TAK-1 as markers.

D. Graph showing the expression levels of various proteins with R848, SV, GGPP, and their interactions.
Figure 5

(A) Graph showing the effect of simvastatin (μg/ml) on TNF ng/ml. ** indicates a significant difference.

(B) Bar graph comparing TNF ng/ml levels at different concentrations of simvastatin (SV) and SV + mev. Error bars indicate standard deviation.

(C) Bar graph showing OD 620 at different concentrations of simvastatin (SV) and SV + mev. Error bars indicate standard deviation.