

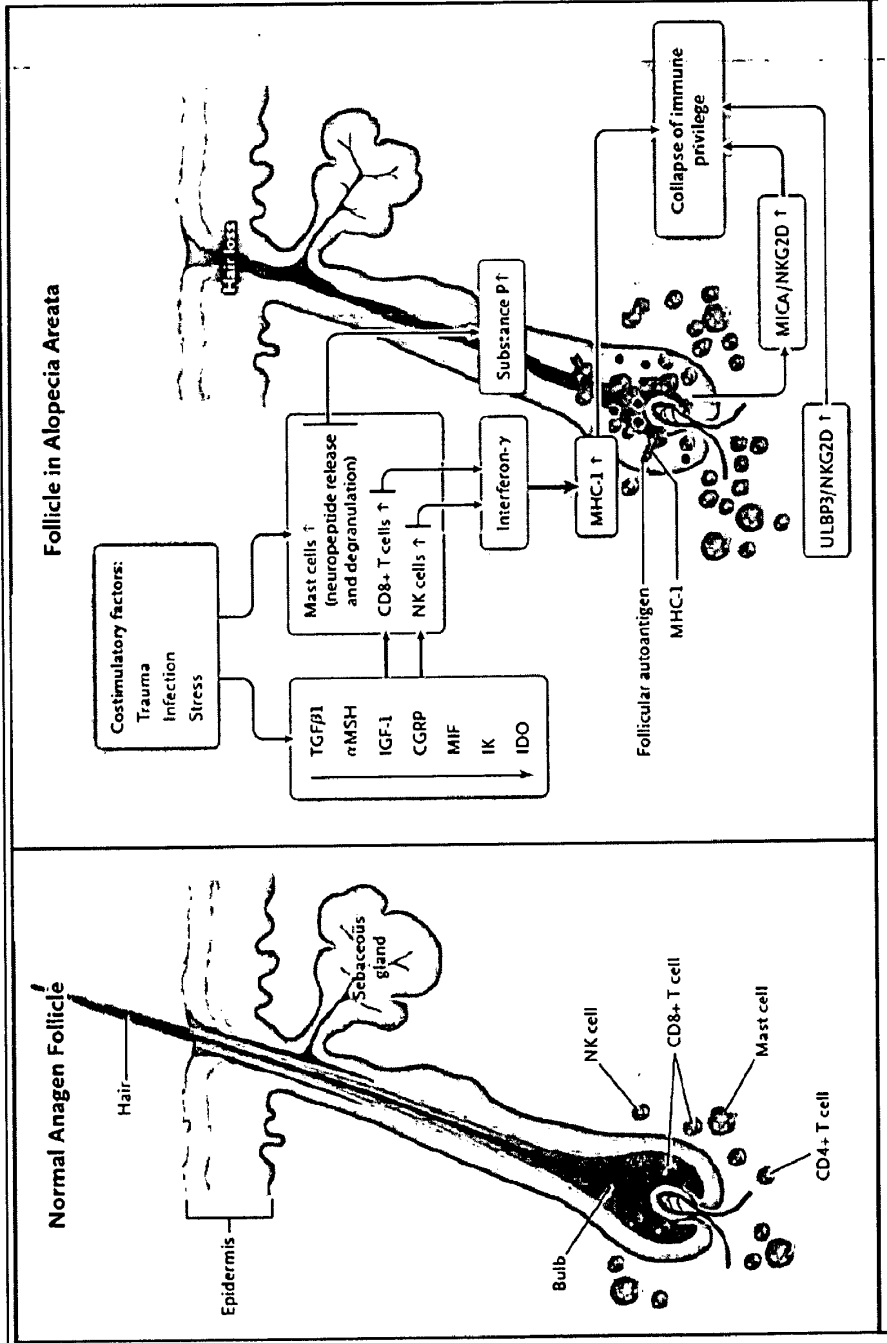


FIG. 1

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(c)



(b)



(a)

FIG. 2

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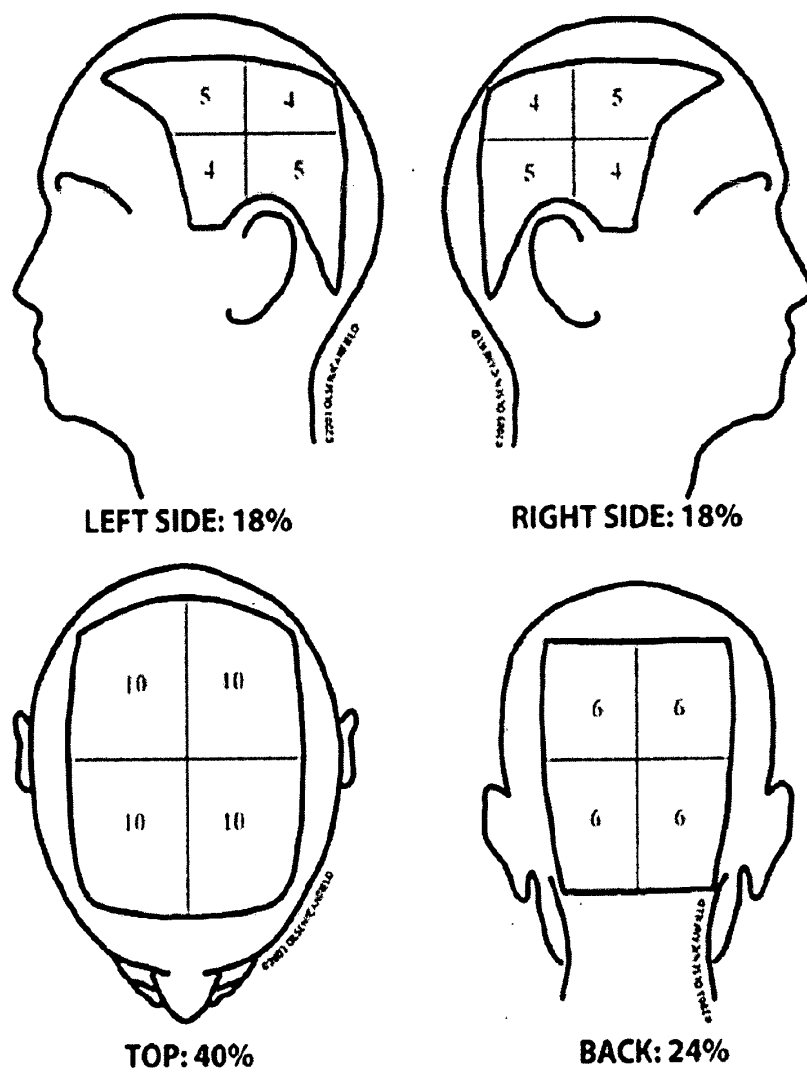


FIG. 3

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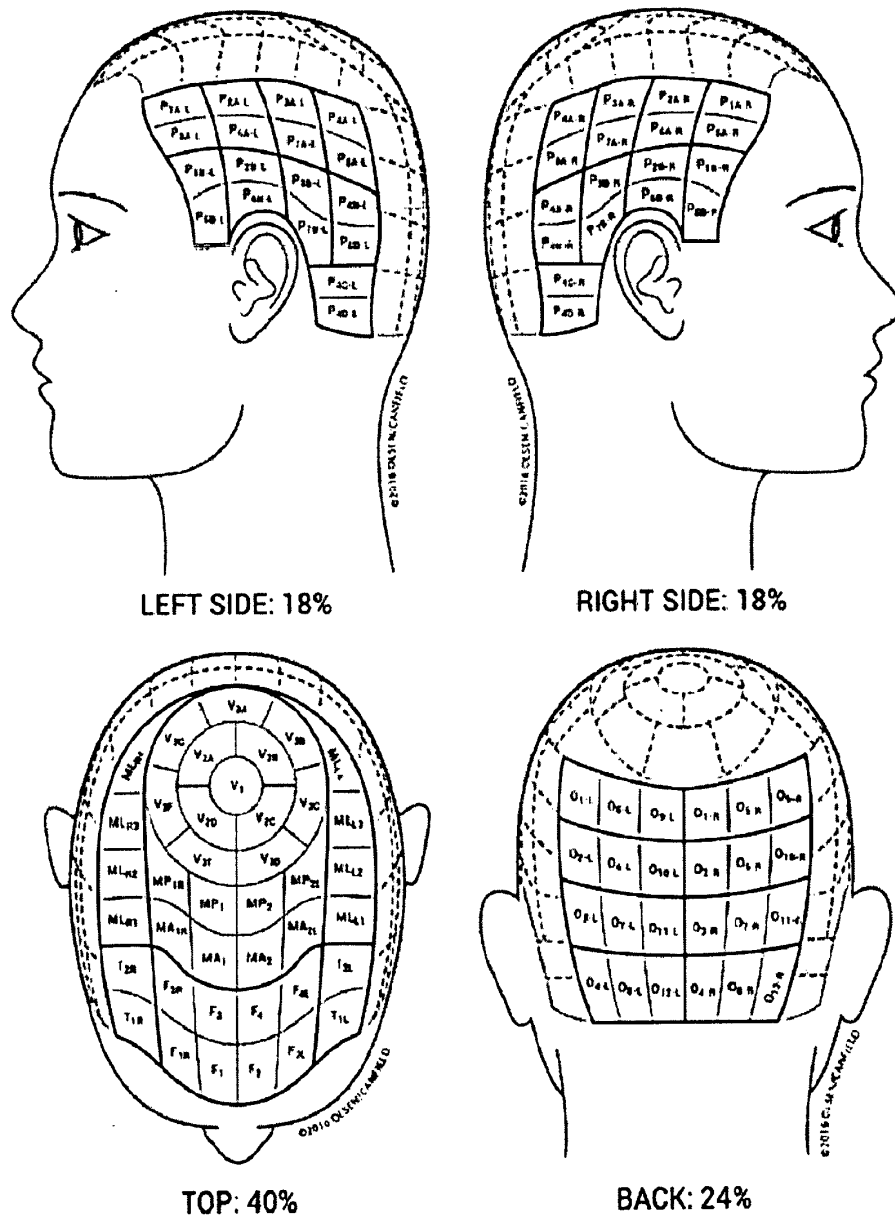


FIG. 4

S1P₁ and S1P₅ increased in HF epithelium in AA patients

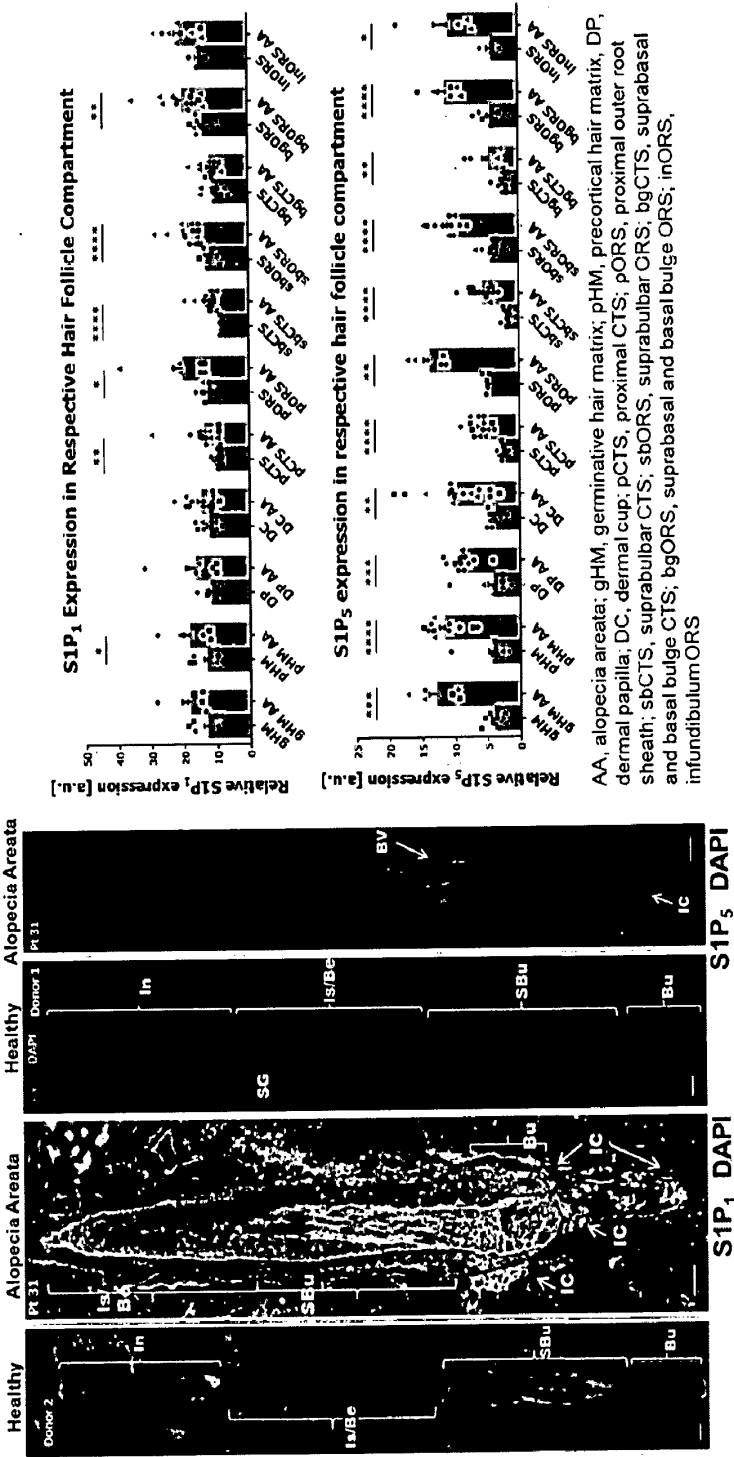


FIG. 5

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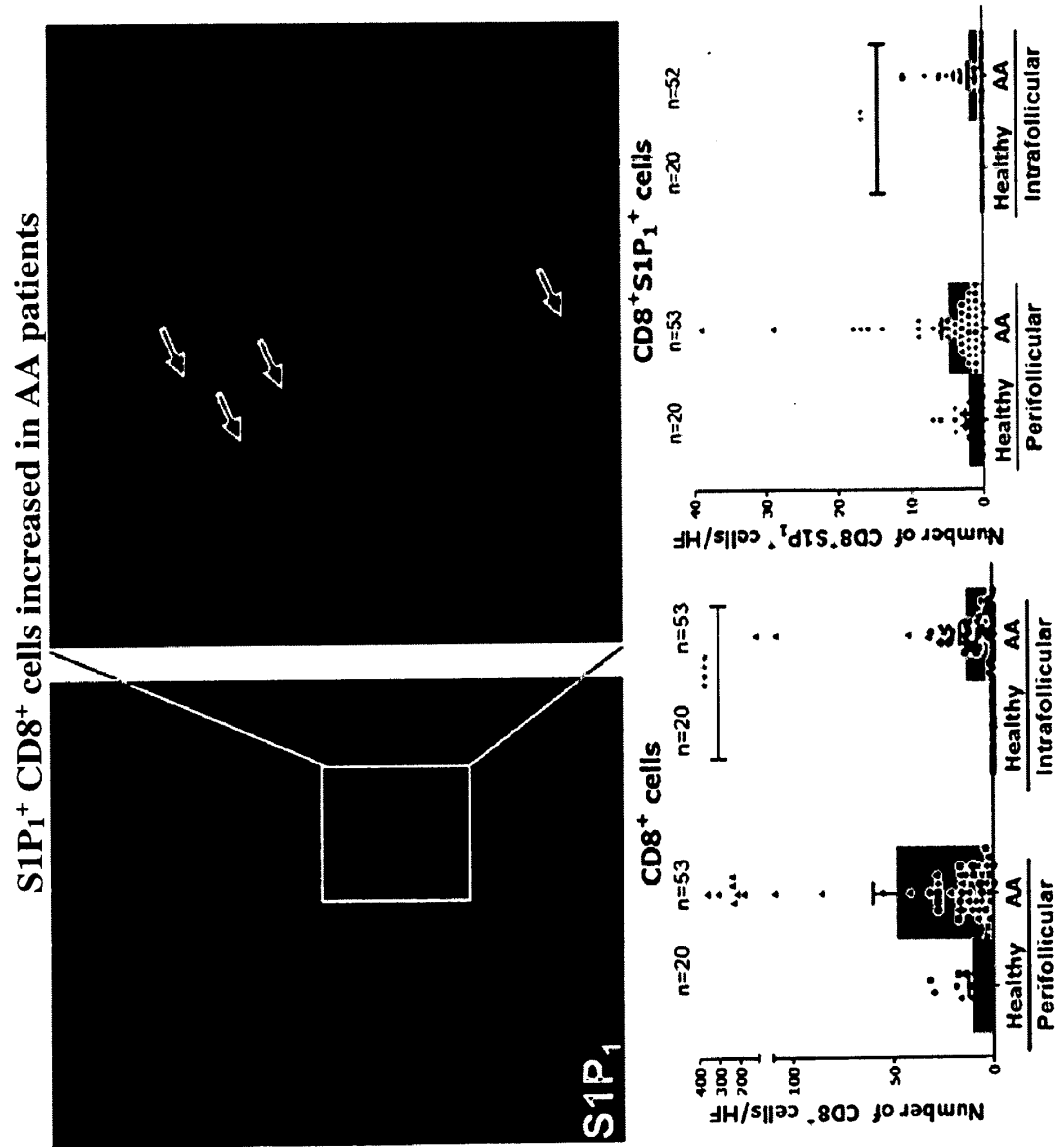
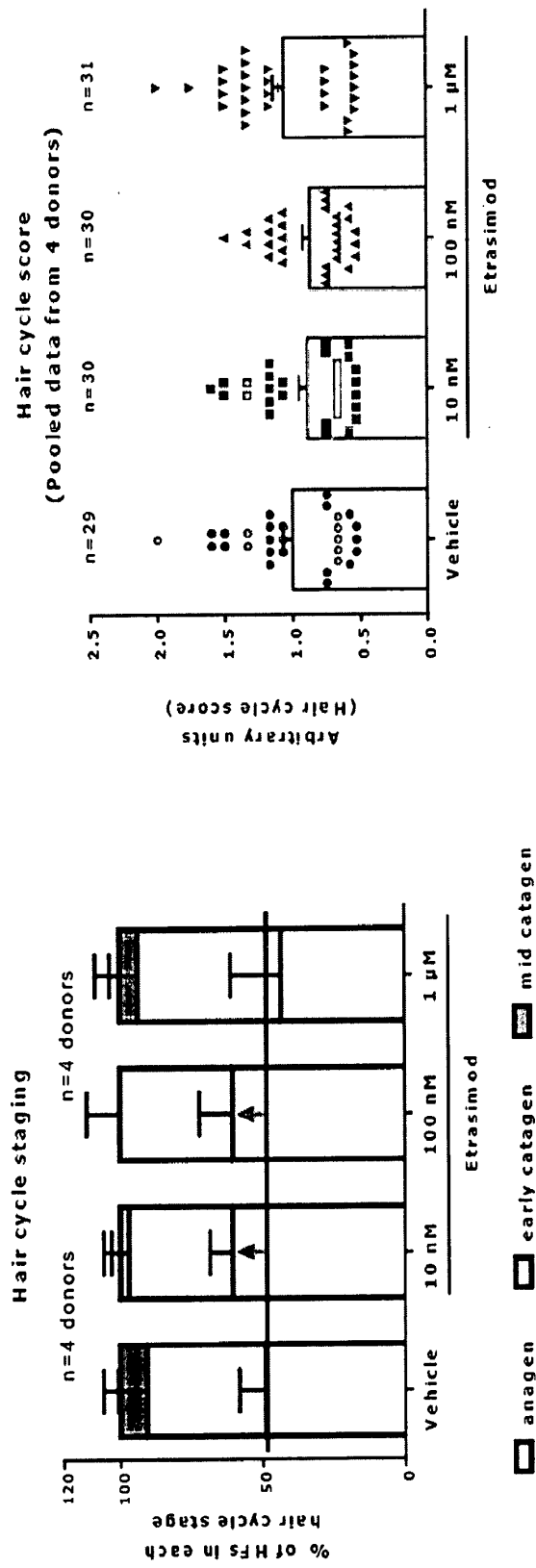


FIG. 6

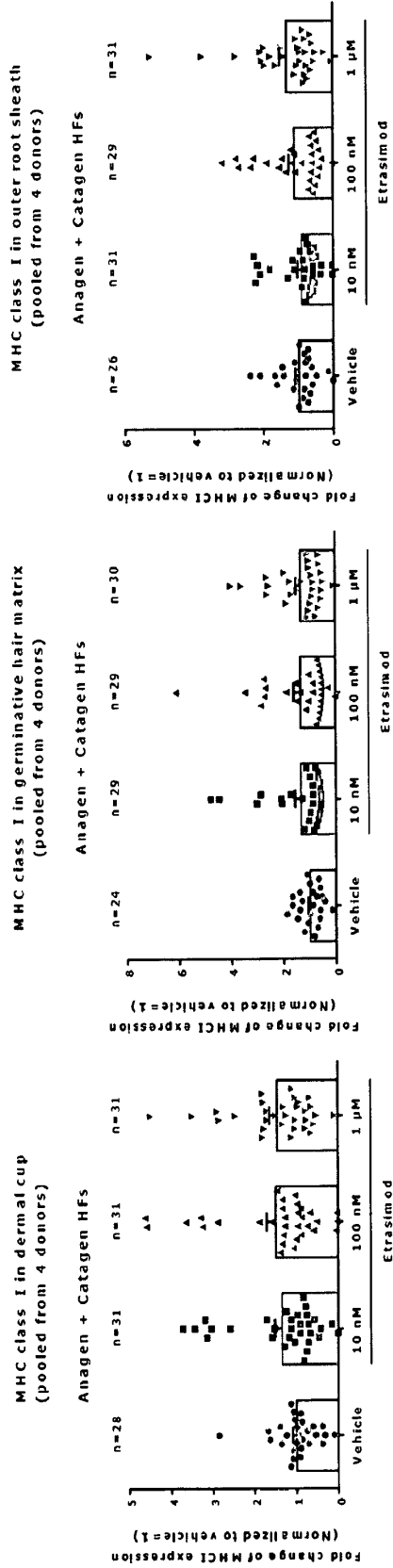
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Mean±SEM, n=29-31 HFs/group from 4 donors (represented by different colors on the chart),
Graph Pad Prism 6, Kruskal-Wallis test and Dunn's multiple comparison with fixed vehicle, n.s., Unpaired t-test, n.s.9

FIG. 7

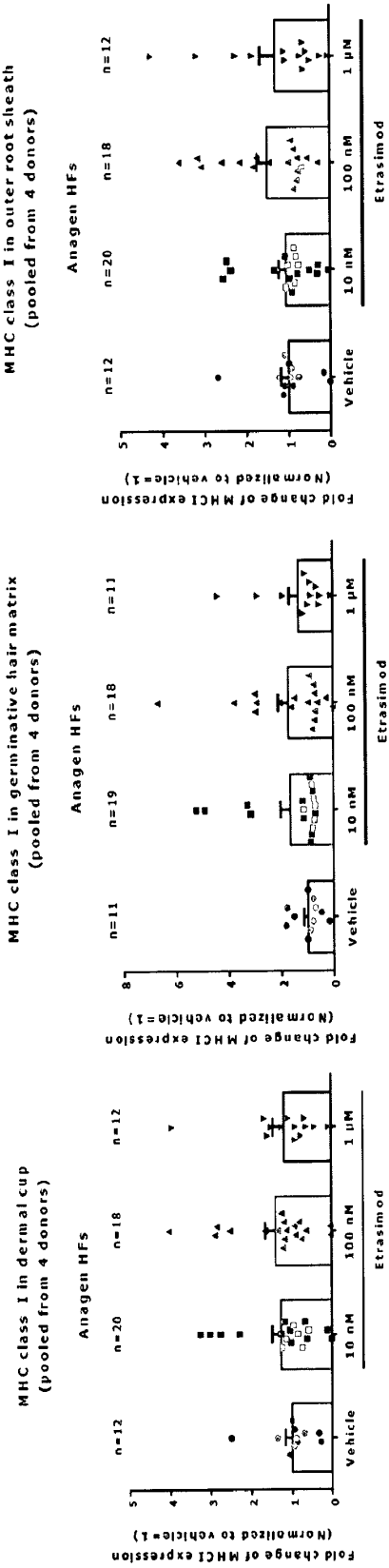
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Mean $\pm$ SEM, n=24-31 anagen+catagen HF/group for dermal cup, germinative hair matrix, and outer root sheath from 4 donors, Graph Pad Prism 6, Kruskal-Wallis test and Dunn's multiple comparison test, n.s., Mann-Whitney test, n.s.

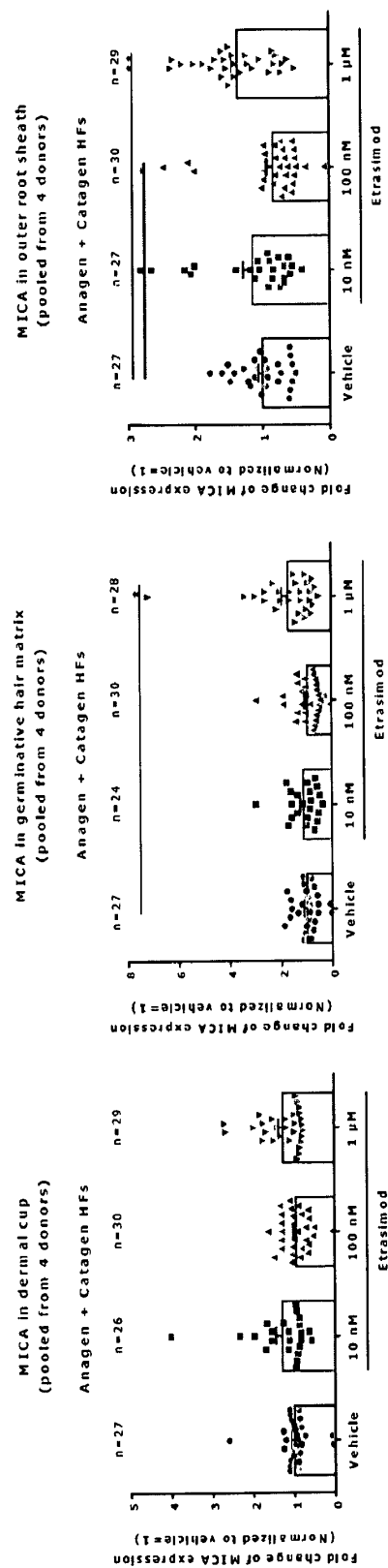
FIG. 8A

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Mean±SEM, n=11-20 anagen HF/group for dermal cup, germinative hair matrix, and outer root sheath from 4 donors, Graph Pad Prism 6, Kruskal-Wallis test and Dunn's multiple comparison test, n.s., Mann-Whitney test, n.s.

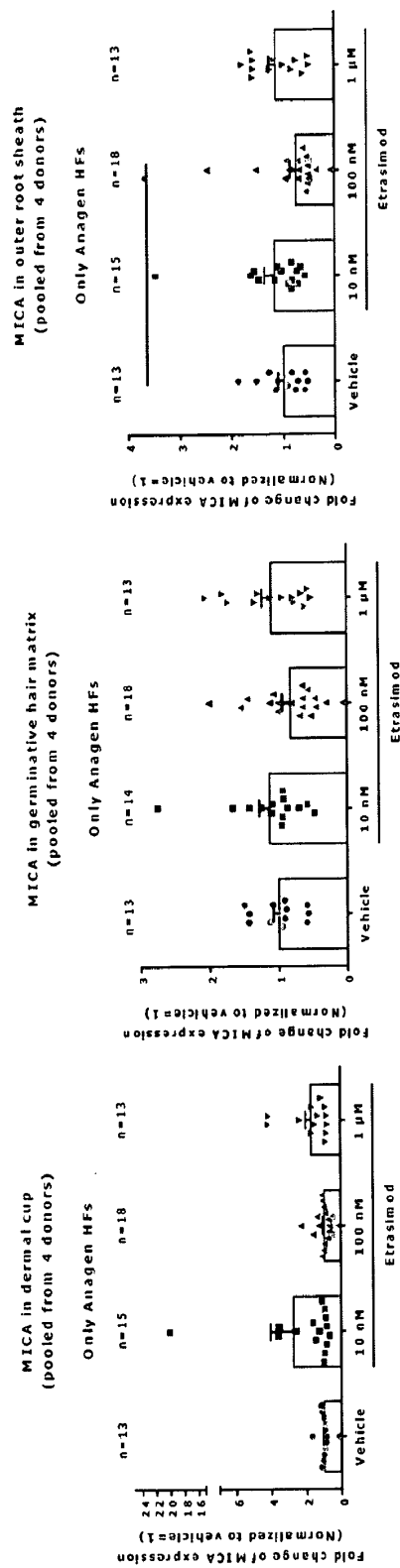
FIG. 8B



Mean $\pm$ SEM, n=24-30 anagen + catagen HFs/group for dermal cup, germinative hair matrix, and outer root sheath from 4 donors.
Graph Pad Prism 6, MICA in dermal cup: Kruskal-Wallis test n.s. and Dunn's multiple comparison test, n.s.; MICA in
germinative hair matrix: Kruskal-Wallis test p=0.0090 and Dunn's multiple comparison test, n.s.; MICA in outer root
sheath: Kruskal-Wallis test p=0.0002 and Dunn's multiple comparison test n.s.; Mann-Whitney test, * p < 0.05, ** p < 0.01.

FIG. 9A

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Mean $\pm$ SEM, n=13-18 anagen HFs/group for dermal cup, germinative hair matrix, and outer root sheath from 4 donors, Graph Pad Prism 6, MICA in dermal cup: Kruskal-Wallis test n.s. and Dunn's multiple comparison test, n.s.; MICA in germinative hair matrix: Kruskal-Wallis test n.s. and Dunn's multiple comparison test, n.s.; MICA in outer root sheath: Kruskal-Wallis test p=0.0109, Dunn's multiple comparison test n.s.; Mann-Whitney test * p < 0.05.

FIG. 9B

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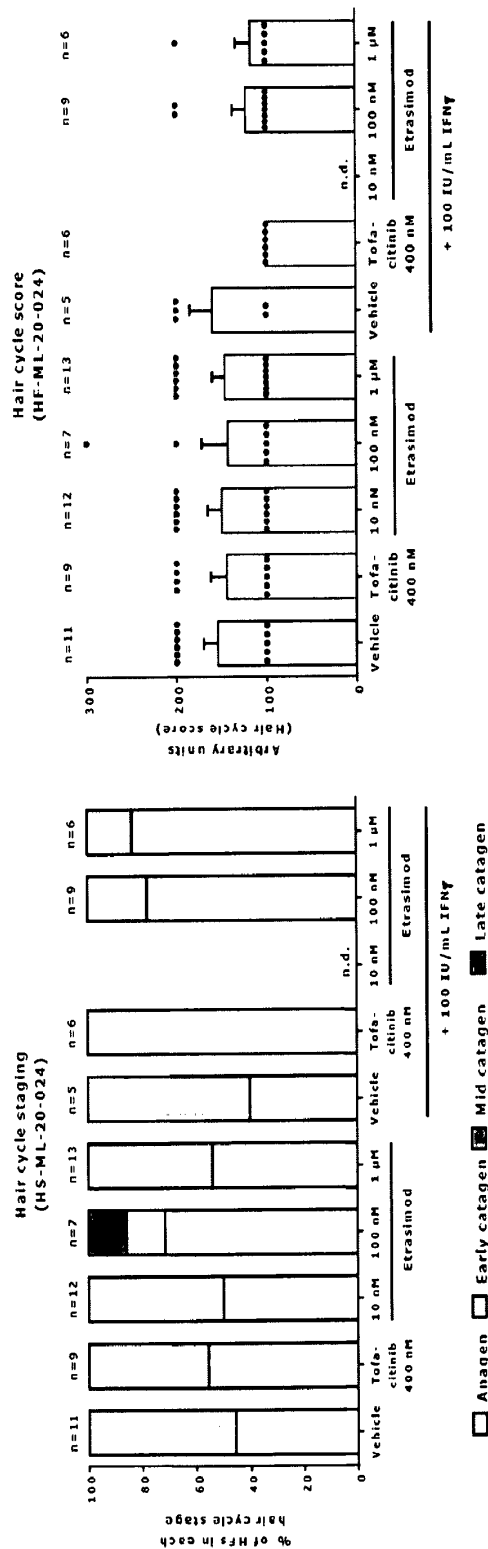


FIG. 10

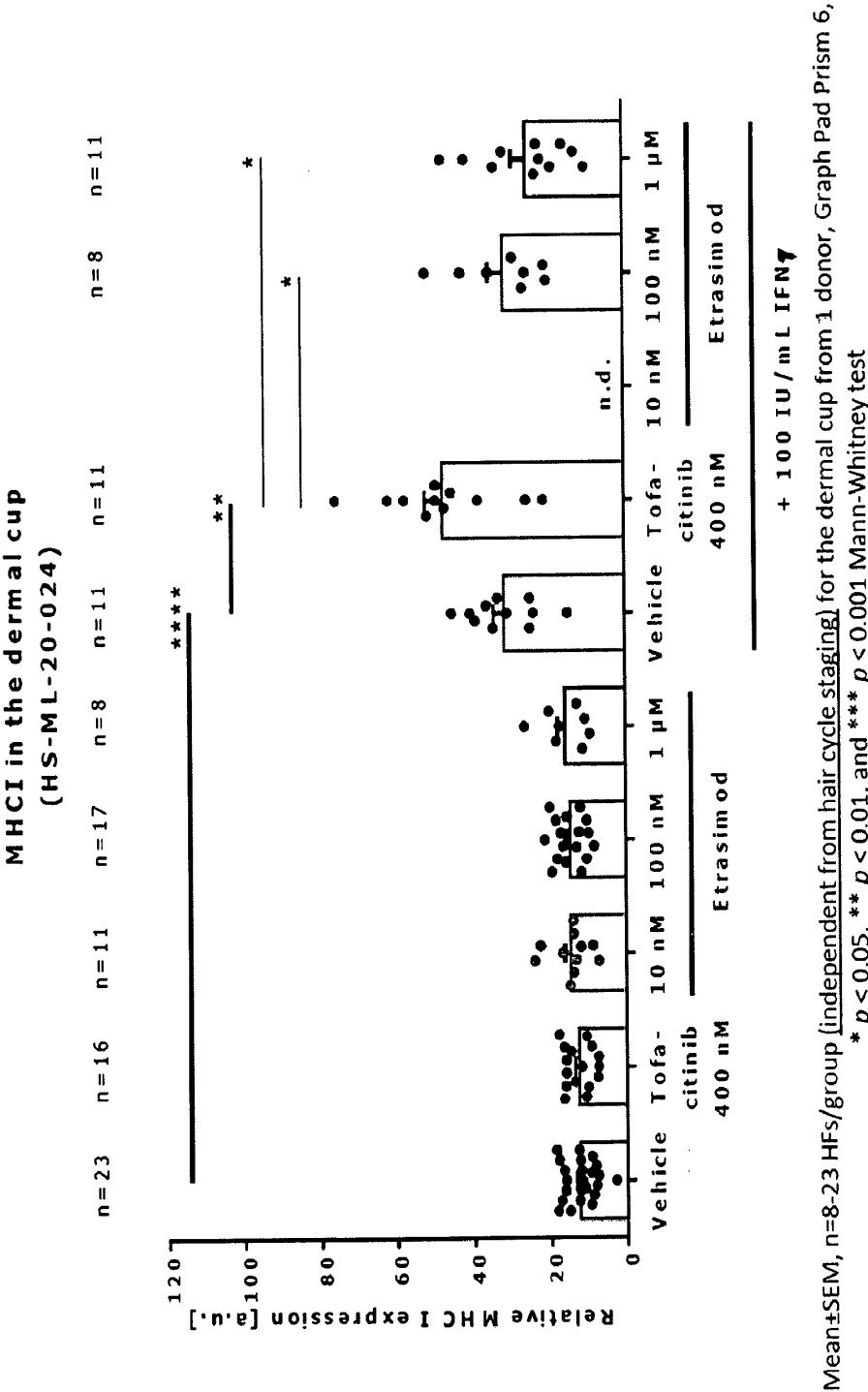
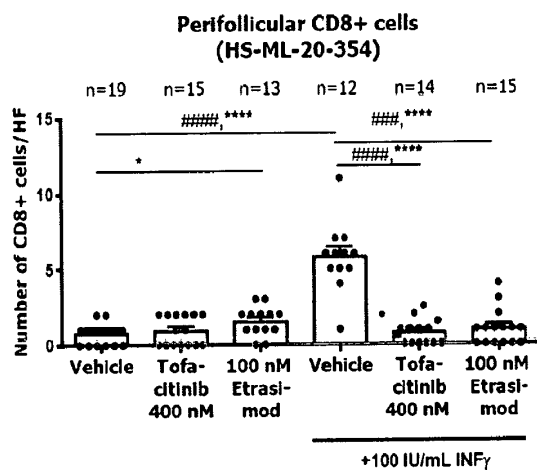
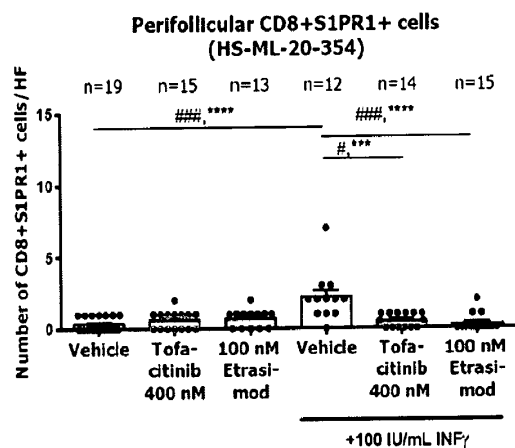


FIG. 11

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Mean ± SEM, n=12-19 HFs/group from 1 donor, Graph Pad Prism 6,
Kruskal-Wallis test $p < 0.0001$, Dunn's multiple comparison $^{##}p < 0.001$ $^{###}p < 0.0001$; Mann-Whitney test $^{****}p < 0.0001$



Mean ± SEM, n=12-19 HFs/group from 1 donor, Graph Pad Prism 6,
Kruskal-Wallis test $p < 0.0001$, Dunn's multiple comparison $^{#}p < 0.05$ $^{##}p < 0.001$; Mann-Whitney test $^{***}p < 0.001$ $^{****}p < 0.0001$

FIG. 12

SUBSTITUTE SHEET (RULE 26)