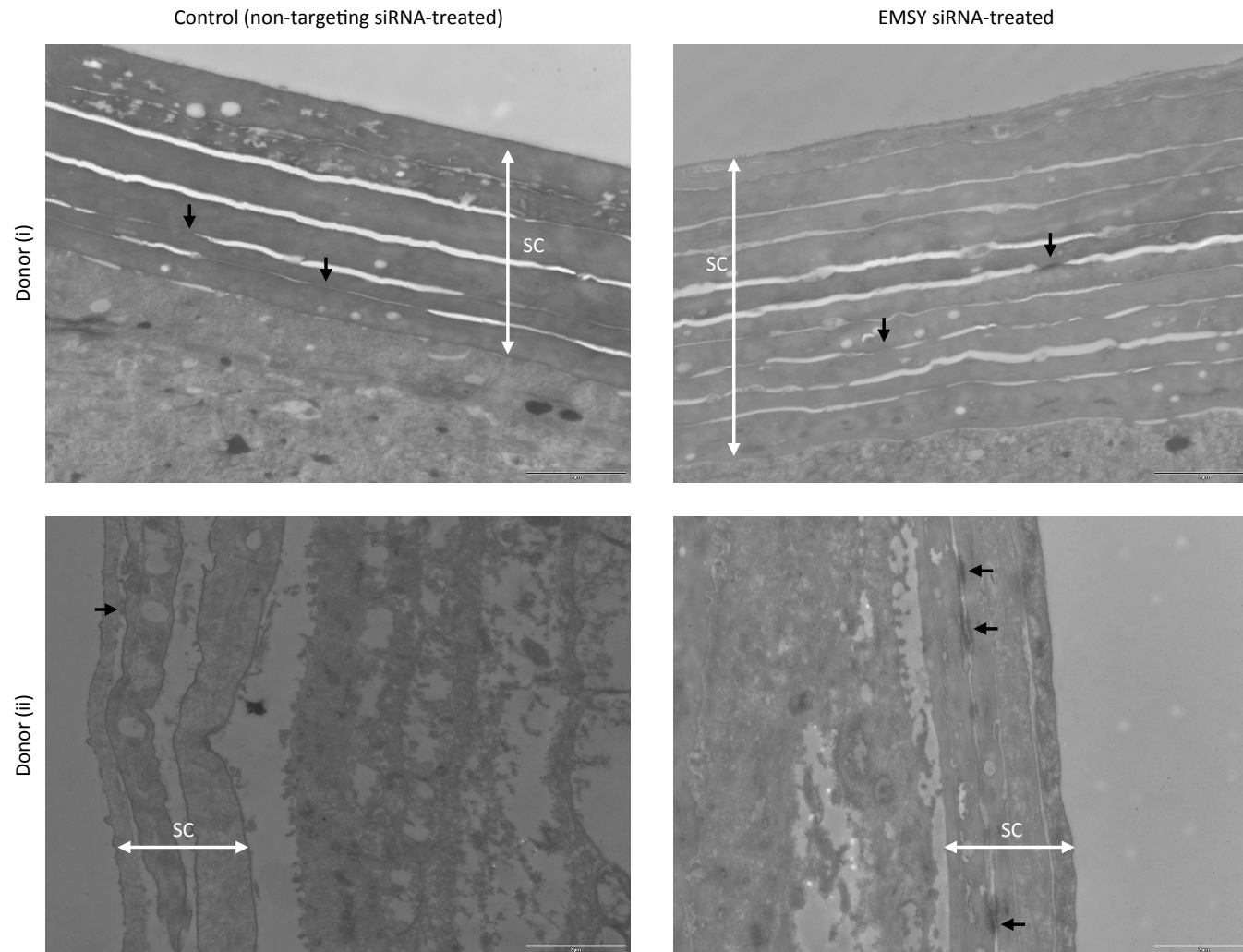


## SUPPLEMENTARY FIGURES AND TABLES – continued

### ***EMSY* expression affects multiple components of skin barrier with relevance to atopic dermatitis**

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**Fig E9. Transmission electron microscopy images of organoid skin model with osmium staining, showing ultrastructure of stratum corneum**

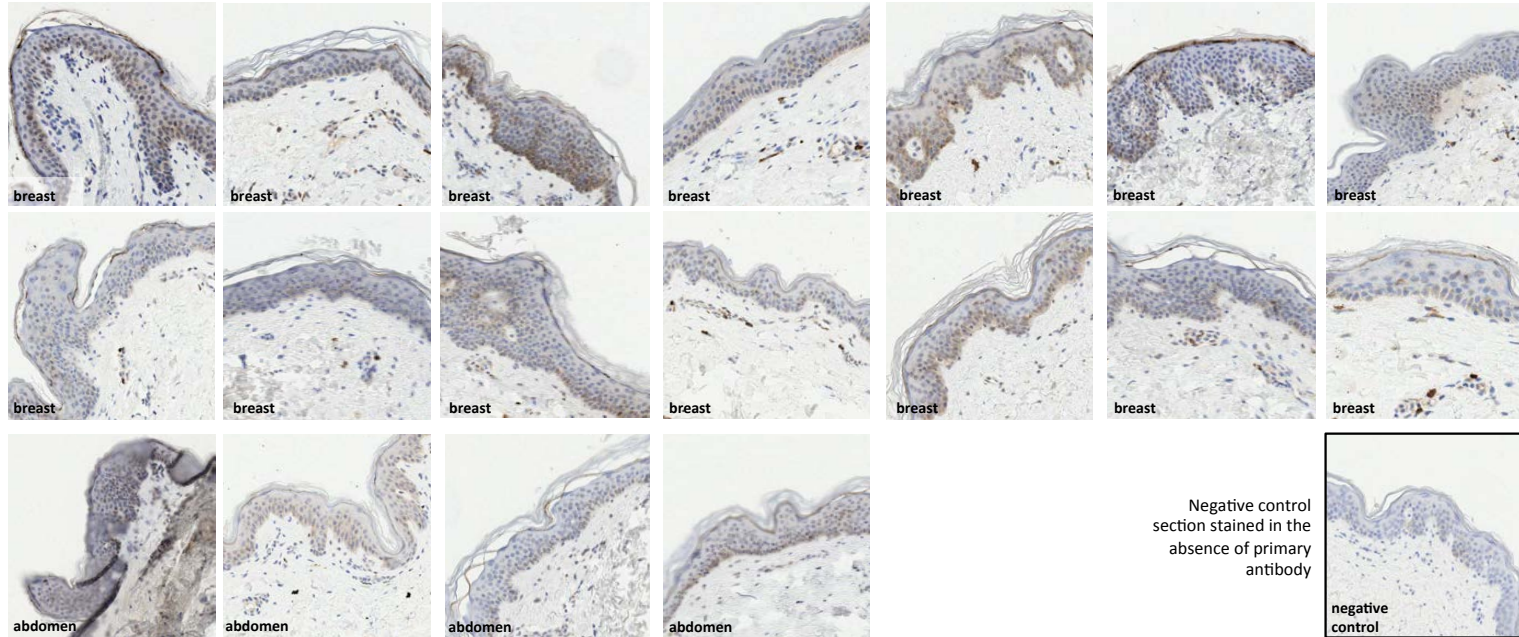


[Note: These upper two Images are reproduced here from Figure 2F, to allow comparison with replicate experiment.]

EMSY knock-down produces a thicker stratum corneum (SC) with an increased number of component layers, consistent with the increase in corneodesmosin detected by mass spectrometry; black arrows indicate corneodesmosomes; representative images from four biological replicate experiments.

**Fig E10. Immunohistochemistry to investigate EMSY expression in skin**

**Normal control skin** obtained from plastic surgical excision of breast or abdominal skin



**Dermatitis cases** with clinical and/or histological features of AD from different body sites as labelled

