Supplementary Materials: Hair Follicle Targeting and Dermal Drug Delivery with Curcumin Drug Nanocrystals—Essential Influence of Excipients

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S1: Untreated Skin.

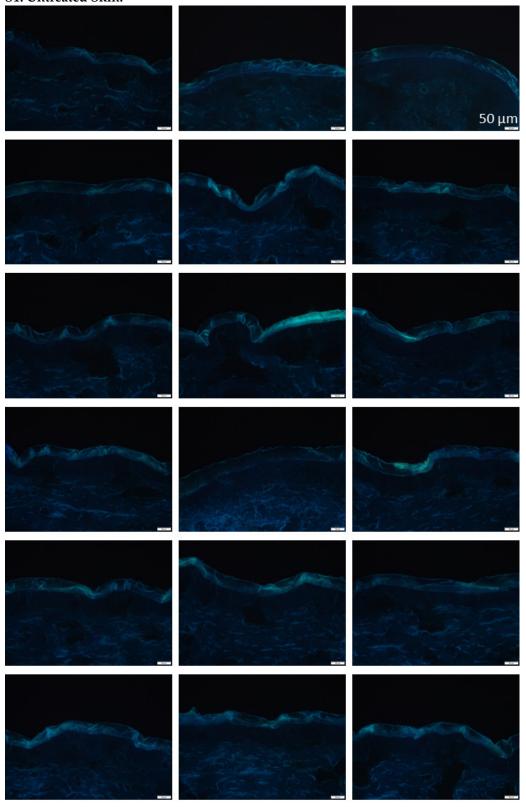


Figure S1. Skin sections of untreated skin. Magnification: 200 fold.

S2: Skin Treated with Nanosuspension without Additives.

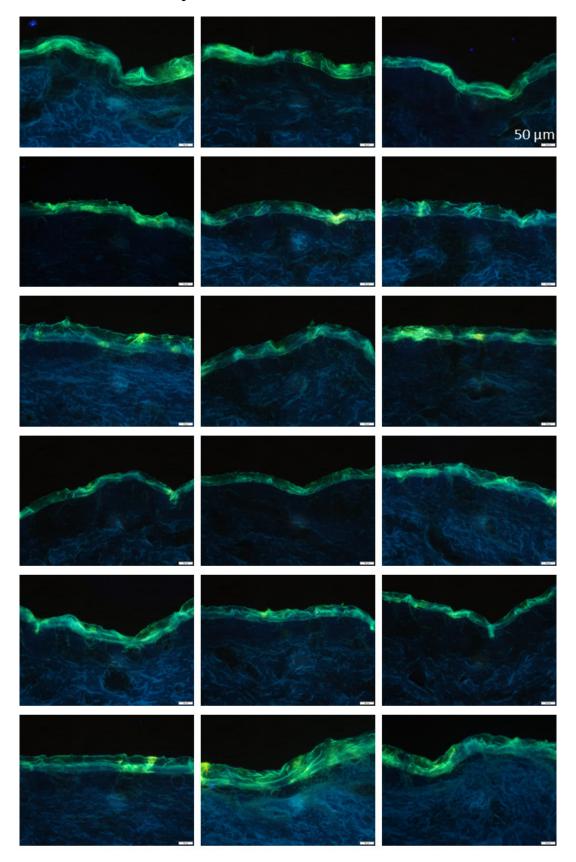


Figure S2. Skin sections of skin treated with nanosuspension without additives. Magnification: 200 fold.

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S3: Skin Treated with Nanosuspension with 2% Glycerol.

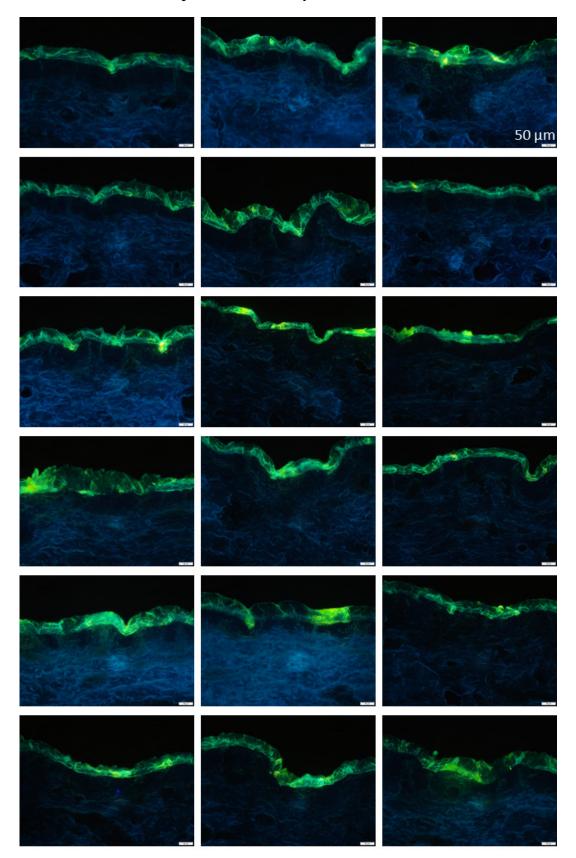


Figure S3. Skin sections of skin treated with nanosuspension contained 2% glycerol. Magnification: 200 fold.

S4: Skin Treated with Nanosuspension with 5% Glycerol.

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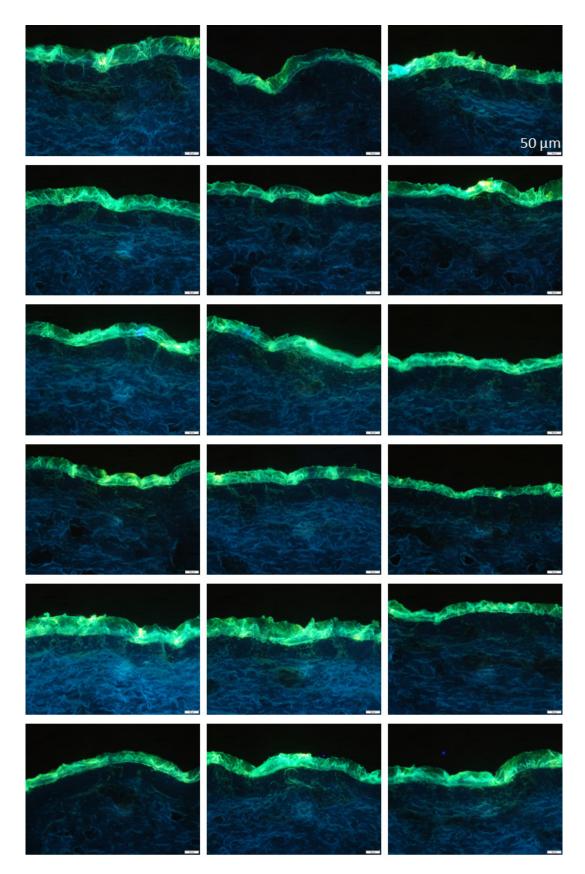


Figure S4. Skin sections of skin treated with nanosuspension contained 5% glycerol. Magnification: 200 fold.

S5: Skin Treated with Nanosuspension with 5% Urea.

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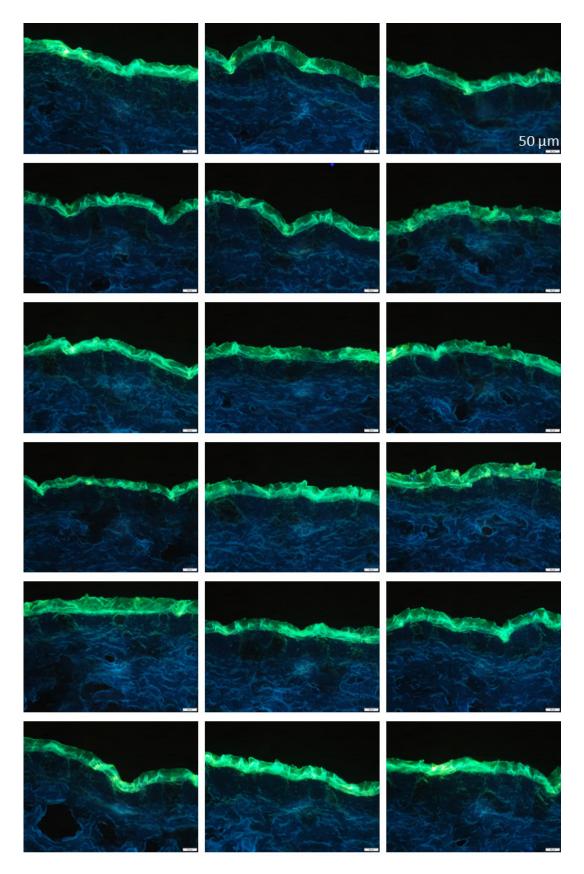


Figure S5. Skin sections of skin treated with nanosuspension contained 5% urea. Magnification: 200 fold.

S6: Skin Treated with Nanosuspension with 10% Urea.

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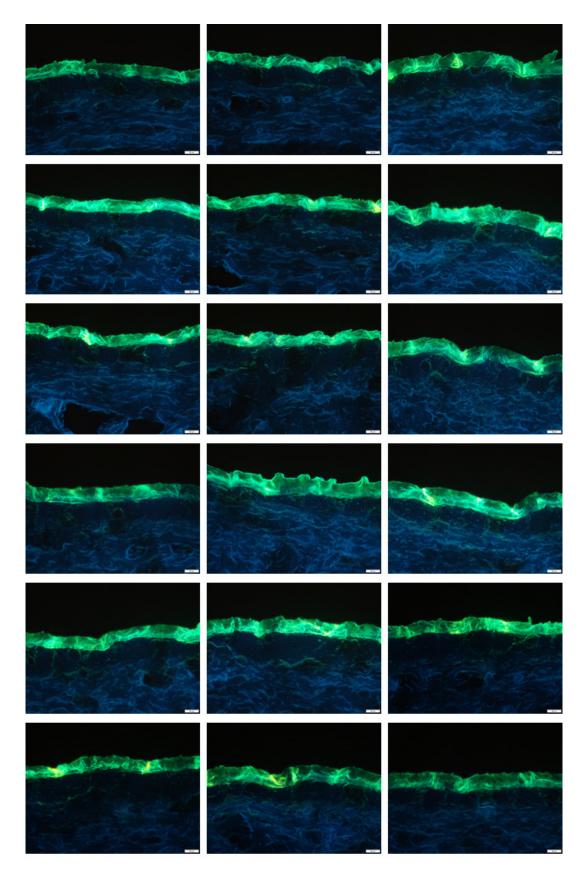


Figure S6. Skin sections of skin treated with nanosuspension contained 10% urea. Magnification: 200 fold.

S7: Skin Treated with Nanosuspension with 5% Propylene Glycol.

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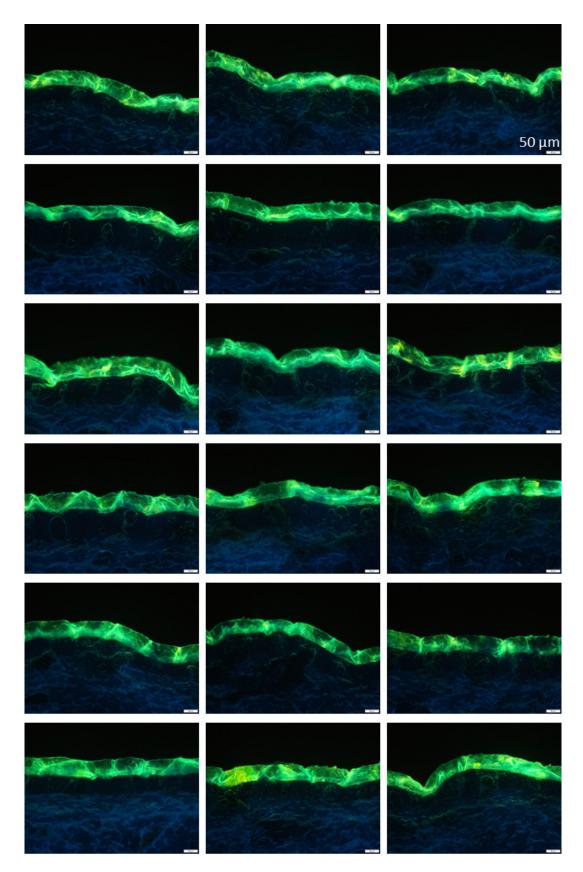


Figure S7. Skin sections of skin treated with nanosuspension contained 5% propylene glycol. Magnification: 200 fold.

S8: Skin Treated with Nanosuspension with 2% Ethanol.

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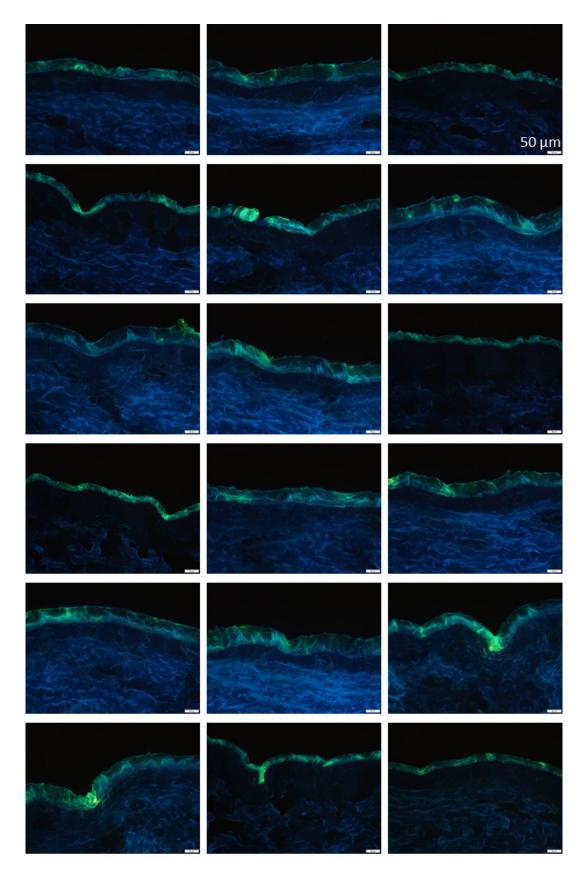


Figure S8. Skin sections of skin treated with nanosuspension contained 2% ethanol. Magnification: 200 fold.

S9: Skin Treated with Nanosuspension with 2% Olive Oil.

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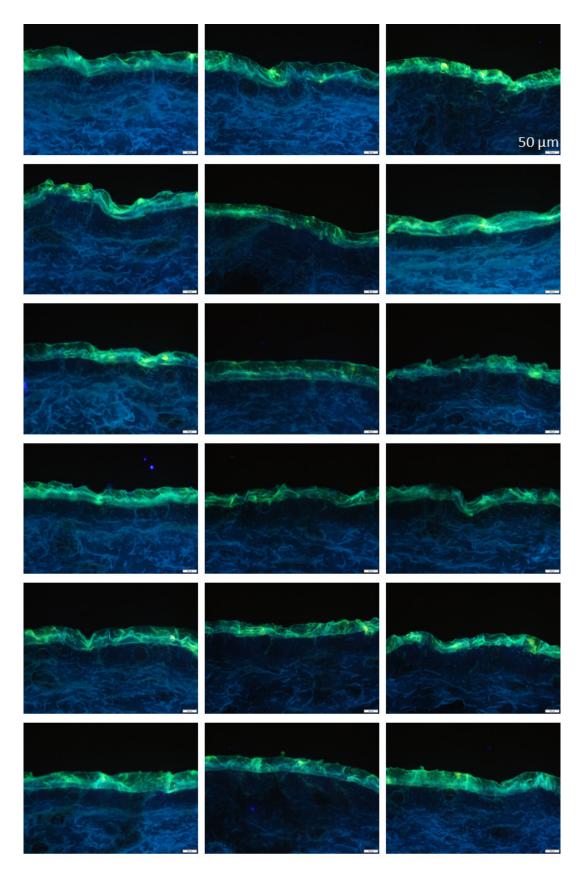


Figure S9. Skin sections of skin treated with nanosuspension contained 2% olive oil. Magnification: 200 fold.

S10: Hair Follicles Treated with Curcumin Nanocrystals without Additives.

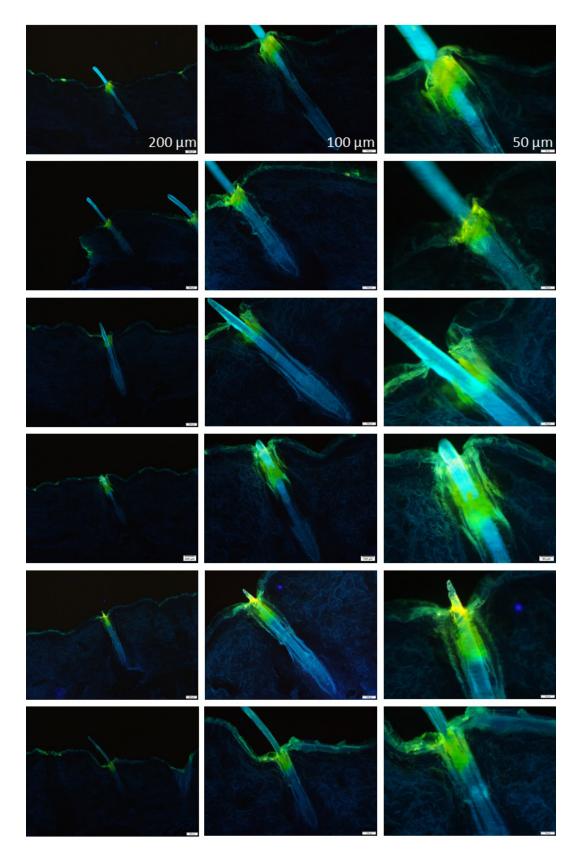


Figure S10. Hair follicles treated with nanosuspension without additives. Left column: images taken at 40fold magnification. Middle column: images taken at 100 fold magnification. Right column: images taken at 200 fold magnification.

S11: Hair Follicles Treated with Curcumin Nanocrystals with 2% Glycerol.

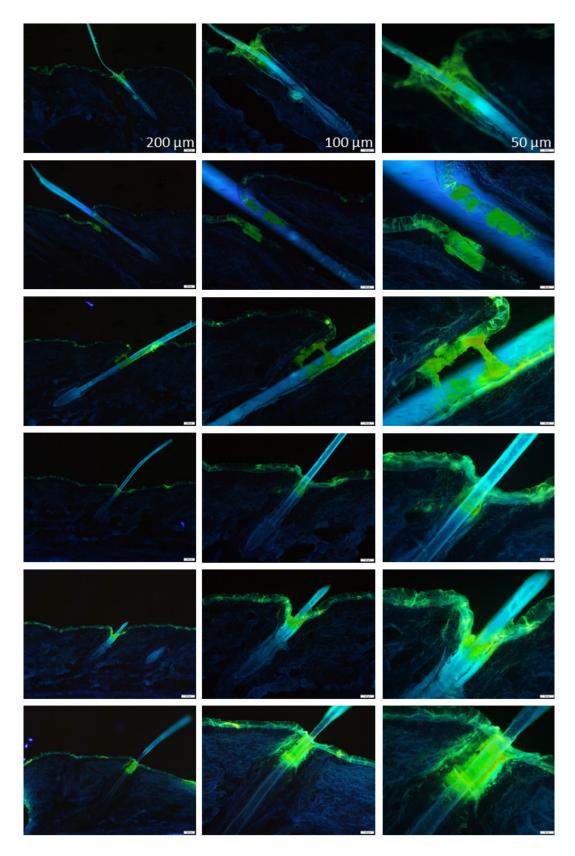


Figure S11. Hair follicles treated with nanosuspension with 2% glycerol. Left column: images taken at 40 fold magnification. Middle column: images taken at 100 fold magnification. Right column: images taken at 200 fold magnification.

S12: Hair Follicles Treated with Curcumin Nanocrystals with 5% Glycerol.

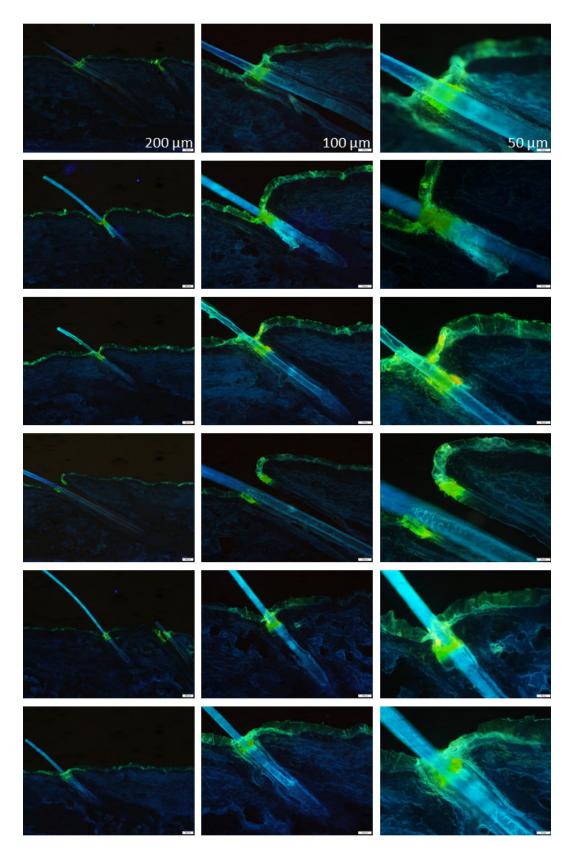


Figure S12. Hair follicles treated with nanosuspension with 5% glycerol. Left column: images taken at 40 fold magnification. Middle column: images taken at 100fold magnification. Right column: images taken at 200 fold magnification.

S13: Hair Follicles Treated with Curcumin Nanocrystals with 5% Urea.

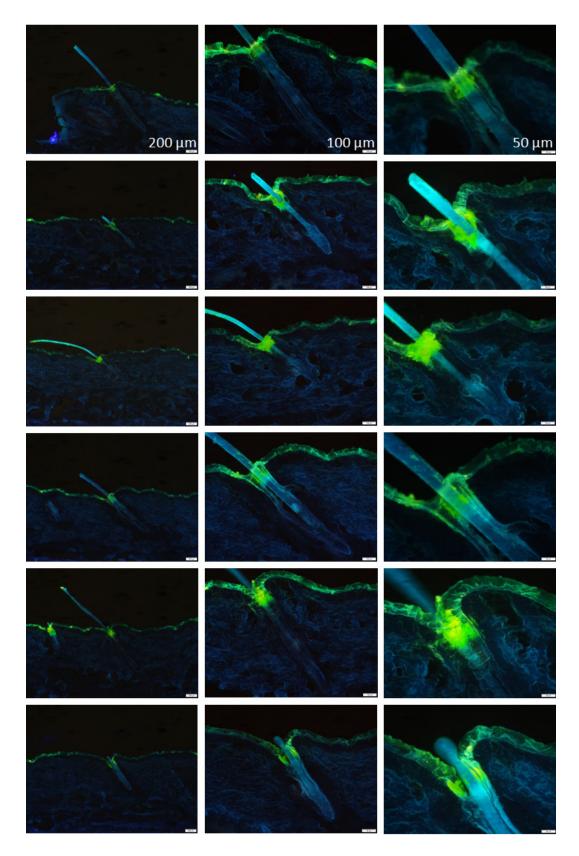


Figure S13. Hair follicles treated with nanosuspension with 5% urea. Left column: images taken at 40fold magnification. Middle column: images taken at 100 fold magnification. Right column: images taken at 200 fold magnification.

S14: Hair Follicles Treated with Curcumin Nanocrystals with 10% Urea.

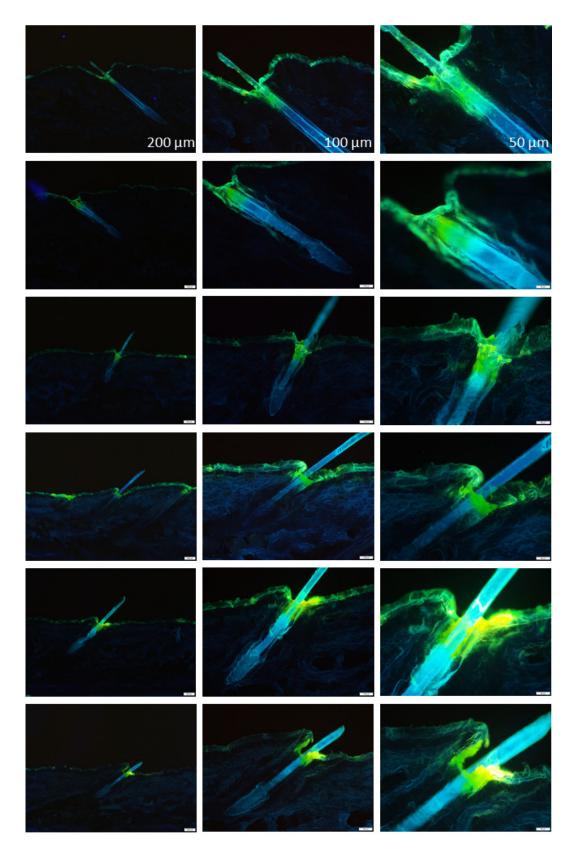


Figure S14. Hair follicles treated with nanosuspension with 10% urea. Left column: images taken at 40 fold magnification. Middle column: images taken at 100 fold magnification. Right column: images taken at 200 fold magnification.

S15: Hair Follicles Treated with Curcumin Nanocrystals without Additives after 14 days Storage.

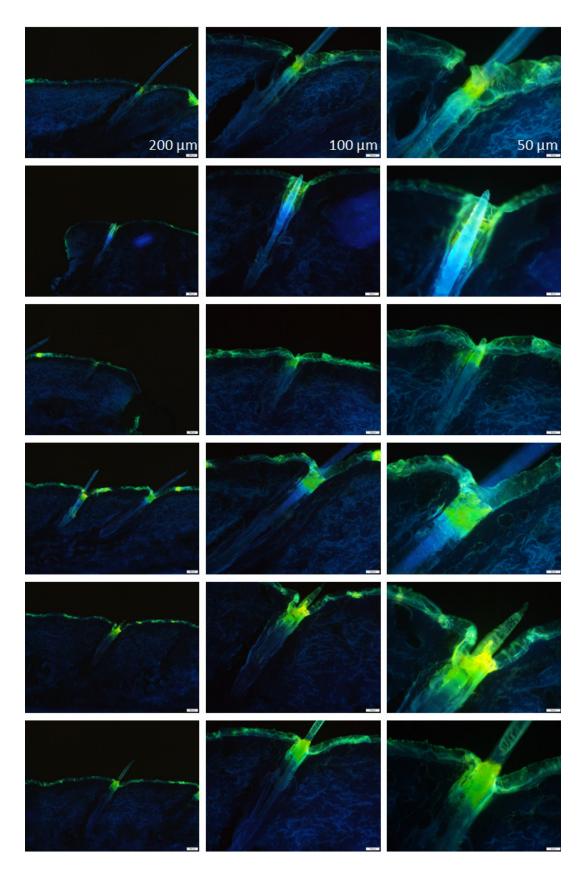


Figure S15. Hair follicles treated with nanosuspension without additives after 14 days storage. Left column: images taken at 40fold magnification. Middle column: images taken at 100 fold magnification. Right column: images taken at 200 fold magnification.

S16: Hair Follicles Treated with Curcumin Nanocrystals with 5% Propylene Glycol.

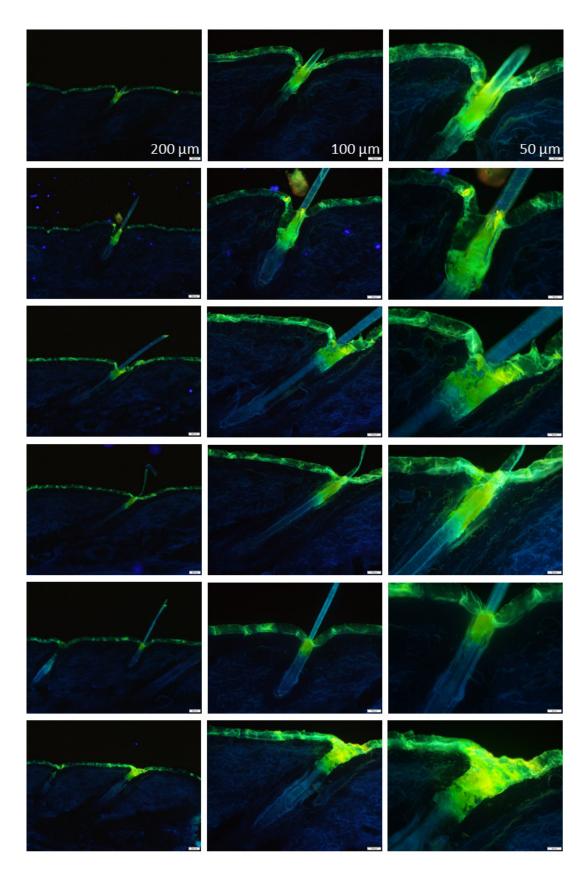


Figure S16. Hair follicles treated with nanosuspension with 5% propylene glycol. Left column: images taken at 40 fold magnification. Middle column: images taken at 100 fold magnification. Right column: images taken at 200 fold magnification.

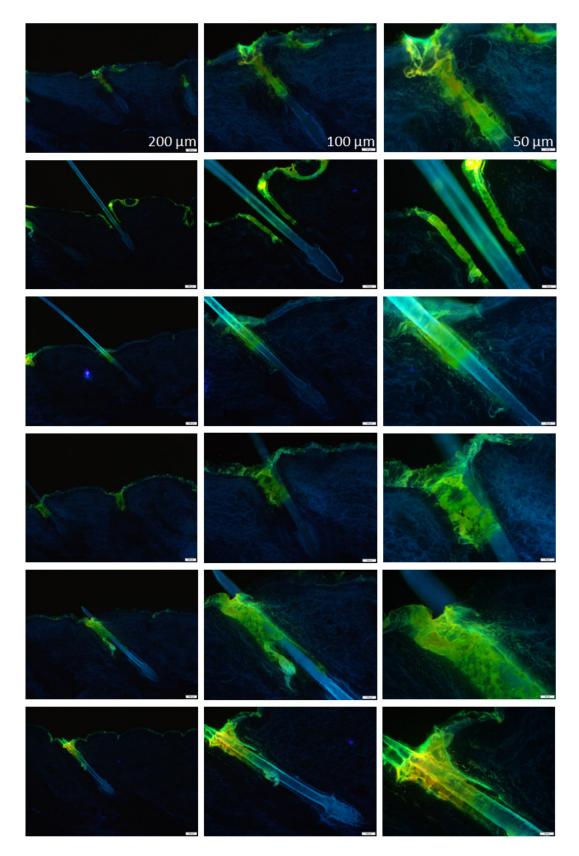


Figure S17. Hair follicles treated with nanosuspension with 2% ethanol. Left column: images taken at 40fold magnification. Middle column: images taken at 100 fold magnification. Right column: images taken at 200 fold magnification.

S18: Hair Follicles Treated with Curcumin Nanocrystals with 2% Olive Oil.

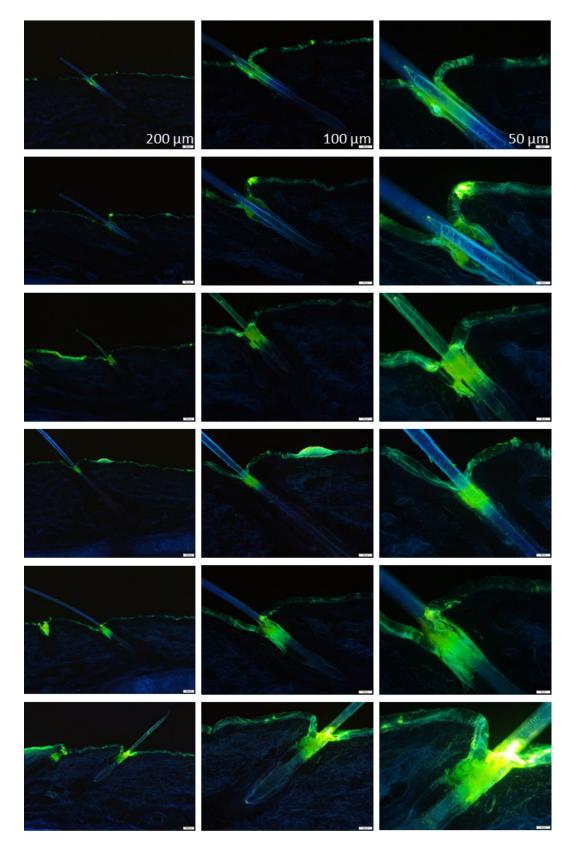


Figure S18. Hair follicles treated with nanosuspension with 2% olive oil. Left column: images taken at 40 fold magnification. Middle column: images taken at 100 fold magnification. Right column: images taken at 200 fold magnification.



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