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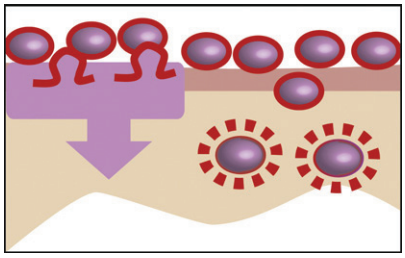
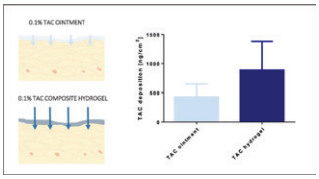
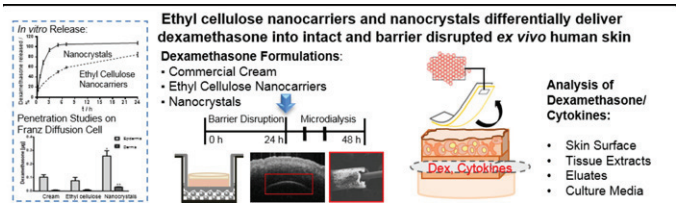
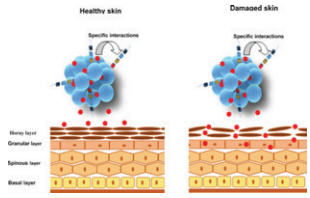






Peptides that show specific interactions with *m*-THPC as identified by combinatorial means have been conjugated to nanogel particles. The implemented peptide functionalities dramatically improve the specific loading of *m*-THPC and enhance skin penetration of the photosensitizer in a barrier deficient skin model.



Compared to o/w cream formulation, up to 7 times higher amount of cargo can be transported by CMS into skin by interacting with intercellular skin lipids. Afterwards, the cargo can be released and penetrate into viable skin layers while CMS itself stays at superficial stratum corneum layer of skin.