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Stratum corneum hydration : mode of action of moisturizers on a molecular level

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Stellingen

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STRATUM CORNEUM HYDRATION

MODE OF ACTION OF MOISTURIZERS ON A MOLECULAR LEVEL

1. The cells in the central region of the stratum corneum are most susceptible to changes in water levels. (*this thesis*)
2. Due to its hexagonal lipid packing, porcine stratum corneum is not a suitable model of human stratum corneum for permeability studies. *(this thesis)*
3. The addition of large quantities of lipophilic moisturizers does not necessarily decrease the long periodicity phase or the orthorhombic packing in the stratum corneum lipid matrix. *(this thesis)*
4. The incorporation of small quantities of non-occlusive lipophilic moisturizers into the stratum corneum lipid domains may explain the effect of this type of moisturizers on the hydration of the skin. *(this thesis)*
5. With new ceramides being discovered, the numbering of ceramides according to their lipophilicity is no longer practical. It is therefore high time that ceramides were referred to by the nomenclature introduced by Motta et al. in 1993. *(S. Motta et al., Biochimica et Biophysica, 1993, p. 147-151)*
6. The permeability-barrier abnormality in atopic dermatitis is not merely an epiphenomenon but rather the "driver" of disease activity. *(P.M. Elias, Journal of Investigative Dermatology 2008 (128), p. 1067-1070)*
7. Endogenous glycerol plays a role in skin hydration. *(J.W. Fluhr et al, British Journal of Dermatology, 2008, p 23-34)*
8. Wrinkles [caused by smoking] may be a more powerful motivator to help individuals stop smoking than the more deadly consequences of smoking such as lung cancer, emphysema, chronic bronchitis, cardiovascular disease, and various cancers. *(Kennedy et al., Journal of Investigative Dermatology, 2003, 120 (4), p. 548-554)*
9. It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is the most adaptable to change. *(Charles Darwin)*
10. The thing women have yet to learn is nobody gives you power. You just take it. *(Roseanne Barr)*
11. You are not what you do, you are how you do it.
12. Universities train their future researchers. They must therefore put much effort into their bachelor as well as their master programmes.

Julia Caussin
Leiden, 17 juni 2009