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

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Curriculum Vitae

Julia Caussin

Julia Caussin was born on 5 December 1976 in Hamburg, Germany. After receiving her *VWO-diploma* in 1995, she continued her studies at the Faculty of Science of Leiden University in the programme Bio-Pharmaceutical Sciences. This was completed in the year 2000 with a Master thesis entitled *Effect of permeant lipophilicity in a basic shampoo formulation on the transport route into the hair follicle* under supervision of Prof. dr. Joke A. Bouwstra at the department of Pharmaceutical Technology of the Leiden/Amsterdam Center for Drug Research (LACDR) . After a short term working in industry, Julia returned to the same department in 2001 to pursue a doctorate.

Besides her scientific work, Julia took a keen interest in university politics, especially concerning the rights and responsibilities of Ph.D. candidates. She joined the board of the Leiden Ph.D. Candidates Association *LEO* and was chairman of *LEO*'s fraction in Leiden's University Council for three consecutive years.

After a short post-doctoral project in collaboration with Suzanne Bal, Julia decided to pursue a career as a policy consultant. She is currently employed as an Education & Quality Policy Consultant at Rotterdam University of Applied Sciences *(Hogeschool Rotterdam)*.

Publications

Papers

Caussin J, Rozema E, Gooris GS, Pavel S, Bouwstra JA: Hydrophilic and lipophilic moisturisers have similar penetration profiles but different effects on SC water distribution *in vivo* (submitted)

Bal SM, Caussin J, Pavel, S, Bouwstra JA: In vivo assessment of safety of microneedle arrays in human skin (*European Journal of Phamrceutical Sciences* 35(3): 193-202 2008)

Caussin J, Gooris GS, Janssens M, Bouwstra JA: Lipid organization in human and porcine stratum corneum differs widely, while lipid mixtures with porcine ceramides model human stratum corneum lipid organization very closely (*Biochimica et biophysica acta* 1778 (6): 1472-1482, 2008)

Caussin J, Gooris GS, and Bouwstra JA: FTIR studies show lipophilic moisturizers to interact with stratum corneum lipids, rendering the more densely packed (*Biochimica et biophysica acta* 1778 (6): 1517-1524 2008)

Caussin J, Groenink HWW, de Graaff A, Gooris GS, Wiechers JW, van Aelst A, and Bouwstra JA: Lipophilic and hydrophilic moisturizers show different actions on human skin as revealed by cryo scanning electron microscopy (*Experimental Dermatology* 16 (11): 891-898, 2007).

Caussin J Groenink HWW, Wiechers JW, and Bouwstra JA: Interaction of lipophilic moisturisers on stratum corneum lipid domains in vitro and in vivo (*Skin Pharmacology and Physiology* 20:175-186, 2007).

Grams YY, Alaruikka S, Lashley L, Caussin J, Whitehead L, Bouwstra JA: Permeant lipophilicity and vehicle composition influence accumulation of dyes in hair follicles of human skin. *European Journal of Pharmaceutical Sciences* 18:329–336, 2003.

Selected Podium and Poster Presentations

Caussin J and Bouwstra JA: Stabilization of the orthorhombic phase by a lipophilic moisturizer Invited speaker at the Gordon Research Conference *Barrier function of the mammalian skin*, 5-10 Augusts 2007, Newport (RI) and IFSCC 2007, Amsterdam.

Caussin J, Groenink HWW, Gooris GS, and Bouwstra JA: Interactions of lipophilic moisturisers with stratum corneum lipids. Invited speaker at the *Spring meeting of the Nederlandse Vereniging voor Cosmetische Chemie*, 11 May 2007 in Soest.

Caussin J, Gooris GS, Groenink HWW, and Bouwstra JA: Investigation into the mode of action of lipophilic moisturisers. Oral Presentation at the *Dutch Medicine's Day* in Lunteren, 28 September 2006 and in Leiden at the *Belgian-Dutch Biopharmacy Day*, 27 November 2006 in Leiden.

Caussin J, Gooris GS, Groenink HWW, Wiechers JW and Bouwstra JA: Effects of *in vivo* and *in vitro* glycerol and glucose application as investigated using SAXD, WAXD, cryo-SEM and ATR-FTIR. Poster presentation at the Gordon Research Conference *Barrier function of the mammalian skin*, 7-12 August 2005, Mount Holyoke College, South Hadley (MA).