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## **Stratum corneum model membranes : molecular organization in relation to skin barrier function**

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## **Curriculum Vitae**

Daniël Groen was born on the 3rd of November in 1979 in The Hague. After graduating from the Bonaventura College in Leiden in 1998 he started the study of applied physics at the University of Twente in Enschede. Daniël did his graduation assignment in the group of Biophysical Engineering. In April 2005 he obtained his masters degree in applied physics. In June 2006 he started as a PhD student in the division of Drug Delivery Technology at the Leiden/Amsterdam Center for Drug Research, Leiden University, under the supervision of Prof. Dr. Joke Bouwstra, which resulted in this thesis. From October 2010 till present he is working as a postdoc in the same division, in a research project together with the company Firmenich (Switzerland). In this project he investigates the interaction between perfume raw materials and the stratum corneum lipid organization. From January 2012 he will start in Geneva as a postdoc at Firmenich for one year.



## List of publications

### 2011

Groen, D., Poole, D.S., Gooris, G.S., Bouwstra, J.A. , *Investigating the barrier function of skin lipid models with varying compositions*, *European Journal of Pharmaceutics and Biopharmaceutics*, in press.

Groen, D., Gooris, G.S., Barlow, D.J., Lawrence, M.J., van Mechelen, J.B., Deme, B., Bouwstra, J.A. , *Disposition of ceramide in model lipid membranes determined by neutron diffraction*, *Biophys J*, vol. 100, no. 6, pp. 1481-9.

Groen, D., Poole, D.S., Gooris, G.S., Bouwstra, J.A. , *Is an orthorhombic lateral packing and a proper lamellar organization important for the skin barrier function?*, *Biochim Biophys Acta*, vol. 1808, issue 6, pp. 1529-1537.

### 2010

Groen, D., Gooris, G.S., Bouwstra, J.A. , *Model membranes prepared with ceramide EOS, cholesterol and free fatty acids form a unique lamellar phase*, *Langmuir*, vol. 26, no. 6, pp. 4168-75.

### 2009

Groen, D., Gooris, G.S., Bouwstra, J.A. , *New insights into the stratum corneum lipid organization by X-ray diffraction analysis*, *Biophys J*, vol. 97, no. 8, pp. 2242-9.

Bouwstra, J.A., Gooris, G.S., Groen, D., Ponec, M. , *The skin barrier in healthy and diseased state*, *Chemistry and Physics of Lipids*, vol. 160, pp. S16-S16.

**2008**

Groen, D., Gooris, G.S., Ponec, M., Bouwstra, J.A. , *Two new methods for preparing a unique stratum corneum substitute*, *Biochimica Et Biophysica Acta-Biomembranes*, vol. 1778, no. 10, pp. 2421-2429.