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## **Development of a stratum corneum substitute for in vitro percutaneous penetration studies : a skin barrier model comprising synthetic stratum corneum lipids**

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### **Citation**

Jager, M. W. de. (2006, April 27). *Development of a stratum corneum substitute for in vitro percutaneous penetration studies : a skin barrier model comprising synthetic stratum corneum lipids*. Retrieved from <https://hdl.handle.net/1887/4373>

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**Chapter 2: The phase behaviour of skin lipid mixtures based on synthetic ceramides**

M.W. de Jager, G.S. Gooris, I.P. Dolbnya, W. Bras, M. Ponec, and J.A. Bouwstra  
*Chem. Phys. Lipids* **124** (2003) 123-134  
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**Chapter 3: Novel lipid mixtures based on synthetic ceramides reproduce the unique stratum corneum lipid organisation**

M.W. de Jager, G.S. Gooris, I.P. Dolbnya, W. Bras, M. Ponec, and J.A. Bouwstra  
*J. Lipid Res.* **45** (2004) 923-932  
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**Chapter 4: Modelling the stratum corneum lipid organisation with synthetic lipid mixtures: the importance of synthetic ceramide composition**

M.W. de Jager, G.S. Gooris, I.P. Dolbnya, M. Ponec, and J.A. Bouwstra  
*Biochim. Biophys. Acta* **1684** (2004) 132-140  
<http://dx.doi.org/10.1016/j.bbamem.2004.05.001>

**Chapter 5: Acylceramide head group architecture affects lipid organisation in synthetic ceramide mixtures**

M.W. de Jager, G.S. Gooris, M. Ponec, and J.A. Bouwstra  
*J. Invest. Dermatol.* **123** (2004) 911-916  
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**Chapter 5: Lipid mixtures prepared with well-defined synthetic ceramides closely mimic the unique stratum corneum lipid phase behaviour**

M.W. de Jager, G.S. Gooris, M. Ponec, and J.A. Bouwstra  
*J. Lipid. Res.* **46** (2005) 2649-2656  
<http://dx.doi.org/10.1194/jlr.M500221-JLR200>

**Chapter 7: Preparation and characterisation of a stratum corneum substitute for in vitro percutaneous penetration studies**

M.W. de Jager, H.W.W. Groenink, J.A. van der Spek, J.H.G. Janmaat, G.S. Gooris, M. Ponec, and J.A. Bouwstra  
*Biochim. Biophys. Acta*, in press

**Chapter 8 : A novel in vitro percutaneous penetration model: evaluation of barrier properties with p-aminobenzoic acid and two of its derivatives**

M.W. de Jager, H.W.W. Groenink, R. Bielsa i Guivernau, E.M. Andersson, N.S. Angelova, M. Ponec and J.A. Bouwstra  
*Pharm. Res.*, in press.

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