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## Academic curriculum vitae

- since 05/2011 Associate Professor at the University of Southern Denmark, Department of Physics and Chemistry, Synthesis and Pharmaceutical Sciences
- 09/2007-04/2011 Scientist (Post-doc, Habilitand) at the Martin Luther University Halle-Wittenberg (Germany), Department of Pharmaceutical Technology and Biopharmaceutics, Prof. Dr. K. Mäder
- 07/2006 Defense of the PhD thesis "Unterkühlt-Smektische Lipid-Nanopartikel: Entwicklung und Charakterisierung eines neuartigen Trägersystems für schwer wasserlösliche Arzneistoffe" and PhD Graduation in Pharmaceutical Technology (summa cum laude)
- 11/2005-08/2007 Scientist at the Friedrich Schiller University Jena (Germany), Department of Pharmaceutical Technology, Prof. Dr. A. Fahr
- 11/2004-10/2005 Research Project (GALENOS Euro-PhD, Marie-Curie-Fellowship) at the University of Kuopio (Finland), Supervisor: Prof. Dr. A. Urtti
- 06/2000-10/2004 Research and Teaching Assistant at the Friedrich Schiller University Jena (Germany), Department of Pharmaceutical Technology, PhD studies in Pharmaceutical Technology, Supervisors: Prof. Dr. K. Westesen, Prof. Dr. A. Fahr and Prof. Dr. H. Bunjes
- 12/1998-05/2000 Pharmacist at the "Viereck-Apotheke" Berlin (Germany) with responsibility for preparation of infusions for ambulant chemotherapy
- 01/1999 License as Pharmacist (Approbation)
- 09/1997-08/1998 Pharmacist candidate (preregistration training) in the "Apotheke zum Kreuz" Berlin (Germany)
- 10/1992-04/1997 Studies in Pharmacy at the Humboldt-University Berlin (Germany)

## Publications

- Kuntsche, J, Rajakulendran, K, Sabriye, HMT, Tawakal, N, Khandelia, H & Hakami Zanjani, AA 2023, 'Drastic differences between the release kinetics of two highly related porphyrins in liposomal membranes: mTHPP and pTHPP', *Journal of Colloid and Interface Science*, vol. 651, pp. 750-759. <https://doi.org/10.1016/j.jcis.2023.07.152>
- Kristensen, S, Hassan, K, Andersen, NS, Steiniger, F & Kuntsche, J 2023, 'Feasibility of the preparation of cochleate suspensions from naturally derived phosphatidylserines', *Frontiers in Medical Technology*, vol. 5, 1241368. <https://doi.org/10.3389/fmedt.2023.1241368>
- Jakobsen, ND, Kaiser, K, Ebbesen, MF, Lauritsen, L, Gjerstorff, MF, Kuntsche, J & Brewer, JR 2022, 'The ROC skin model: A robust skin equivalent for permeation and live cell imaging studies', *European Journal of Pharmaceutical Sciences*, vol. 178, 106282. <https://doi.org/10.1016/j.ejps.2022.106282>
- Nielsen, MMK, Hughes, SS, Kuntsche, J, Malmendal, A, Jenssen, H, Nielsen, CU & Prabhala, BK 2022, 'Molecular networks and macromolecular molar mass distributions for preliminary characterization of danish craft beers', *Beverages*, vol. 8, no. 2, 35. <https://doi.org/10.3390/beverages8020035>
- Tretiakova, D, Le-Deigen, I, Onishchenko, N, Kuntsche, J, Kudryashova, E & Vodovozova, E 2021, 'Phosphatidylinositol stabilizes fluid-phase liposomes loaded with a melphalan lipophilic prodrug', *Pharmaceutics*, vol. 13, no. 4, 473. <https://doi.org/10.3390/pharmaceutics13040473>
- Sundermann, J, Zagst, H, Kuntsche, J, Wätzig, H & Bunjes, H 2020, 'Bone morphogenetic protein 2 (BMP-2) aggregates can be solubilized by albumin—investigation of BMP-2 aggregation by light scattering and electrophoresis', *Pharmaceutics*, vol. 12, no. 12, 1143. <https://doi.org/10.3390/pharmaceutics12121143>
- Göttel, B, Lucas, H, Syrowatka, F, Knolle, W, Kuntsche, J, Heinzelmann, J, Viestenz, A & Mäder, K 2020, 'In situ gelling Amphotericin B Nanofibers: A new Option for the Treatment of Keratomycosis', *Frontiers in Bioengineering and Biotechnology*, vol. 8, 6000384. <https://doi.org/10.3389/fbioe.2020.600384>

Göke, K, Roese, E, Arnold, A, Kuntsche, J & Bunjes, H 2016, 'Control over particle size distribution by autoclaving poloxamer-stabilized trimyristin nanodispersions', *Molecular Pharmaceutics*, vol. 13, no. 9, pp. 3187-3195. <https://doi.org/10.1021/acs.molpharmaceut.6b00395>

Hinna, A, Steiniger, F, Hupfeld, S, Stein, PC, Kuntsche, J & Brandl, M 2016, 'Filter-extruded liposomes revisited: a study into size distributions and morphologies in relation to lipid-composition and process parameters', *Journal of Liposome Research*, vol. 26, no. 1, pp. 11-20. <https://doi.org/10.3109/08982104.2015.1022556>

Bunjes, H & Kuntsche, J 2016, Light and Electron Microscopy. in A Müllertz, Y Perrie & T Rades (eds), *Analytical Techniques in the Pharmaceutical Sciences*. Springer, New York, Advances in Delivery Science and Technology, pp. 491-522. [https://doi.org/10.1007/978-1-4939-4029-5\\_16](https://doi.org/10.1007/978-1-4939-4029-5_16)

Hinna, AH, Hupfeld, S, Kuntsche, J, Bauer-Brandl, A & Brandl, M 2016, 'Mechanism and kinetics of the loss of poorly soluble drugs from liposomal carriers studied by a novel flow field-flow fractionation-based drug release-/transfer-assay', *Journal of Controlled Release*, vol. 232, pp. 228-237. <https://doi.org/10.1016/j.jconrel.2016.04.031>

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Trauer, S, Richter, H, Kuntsche, J, Buttemeyer, R, Liebsch, M, Linscheid, M, Fahr, A, Schafer-Korting, M, Lademann, J & Patzelt, A 2014, 'Influence of massage and occlusion on the ex vivo skin penetration of rigid liposomes and invasomes', *European Journal of Pharmaceutics and Biopharmaceutics*, vol. 86, no. 2, pp. 301-306. <https://doi.org/10.1016/j.ejpb.2013.11.004>

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Kuntsche, J & Bouwstra, J 2013, 'Editorial to the special EJPS issue "(Trans)dermal drug delivery: emerging trends to study and overcome the skin barrier"', *European Journal of Pharmaceutical Sciences*, vol. 50, no. 5, pp. 545. <https://doi.org/10.1016/j.ejps.2013.08.028>

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Kuntsche, J, Herre, A, Fahr, A, Funari, SS & Garidel, P 2013, 'Comparative SAXS and DSC study on stratum corneum structural organization in an epidermal cell culture model (ROC): Impact of cultivation time', *European Journal of Pharmaceutical Sciences*, vol. 50, no. 5, pp. 577-585. <https://doi.org/10.1016/j.ejps.2013.06.003>

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- Wöhl-Bruhn, S, Bertz, A, Kuntsche, J, Menzel, H & Bunjes, H 2013, 'Variations in polyethylene glycol brands and their influence on the preparation process of hydrogel microspheres', *European Journal of Pharmaceutics and Biopharmaceutics*, vol. 85, no. 3, part B, pp. 1215-1218. <https://doi.org/10.1016/j.ejpb.2013.02.018>
- Schädlich, A, Hoffmann, S, Mueller, T, Caysa, H, Rose, C, Göpferich, A, Li, J, Kuntsche, J & Mäder, K 2012, 'Accumulation of nanocarriers in the ovary: a neglected toxicity risk?', *Journal of Controlled Release*, vol. 160, no. 1, pp. 105-112. <https://doi.org/10.1016/j.jconrel.2012.02.012>
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