

Curriculum Vitae **Carien Niessen**

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Selection of peer-reviewed research articles:

1. Rübsam M, Püllen P, Tellkamp F, *et int*, **Niessen CM**. Polarity signaling balances epithelial contractility and mechanical resistance. *Sci Rep*. 2023 May 12;13(1):7743. doi: 10.1038/s41598-023-33485-5.
2. Nava MM, Miroshnikova YA, Biggs LC, *et int*, **Niessen CM**, Dahl KN, Wickström SA. Heterochromatin-driven nuclear softening protects the genome against mechanical stress induced damage. *Cell*. 2020 May 14;181(4):800-817.e22. doi: 10.1016/j.cell.2020.03.052.
3. Peters F, Tellkamp F, Brodesser S, *et int*, **Niessen CM**. Murine Epidermal Ceramide Synthase 4 Is a Key Regulator of Skin Barrier Homeostasis. *J Invest Dermatol*. 2020 Oct;140(10):1927-1937.e5. doi: 10.1016/j.jid.2020.02.006.
4. Vorhagen S, Kleefisch D, Persa, O-D, *et int*, **Niessen CM**[#], Iden S[#]. Shared and independent functions of aPKC λ and Par3 in skin tumorigenesis. *Oncogene*. 2018 Sep;37(37):5136-5146. doi: 10.1038/s41388-018-0313-1.
5. Shafraz O, Rübsam M, Stahley SN, *et int*, **Niessen CM**, Sivasankar S. E-cadherin binds to desmoglein to facilitate desmosome formation. *Elife*. 2018 Jul 12;7:e37629. doi: 10.7554/eLife.37629.
6. Miroshnikova YA, Le HQ, David Schneider D, *et int*, **Niessen CM**, Galle J, Wickström SA. A biomechanical network of adhesion forces and cell mechanics couples proliferation and differentiation to drive epidermal stratification. *Nat Cell Biol*. 2018 Jan;20(1):69-80. doi: 10.1038/s41556-017-0005-z.
7. Rübsam M, Mertz AF, Kubo A, *et int*, **Niessen CM**. E-cadherin integrates mechanotransduction and EGFR signaling to control junctional tissue polarization and Tight Junction positioning. *Nat Commun*. 2017 Nov 1;8(1):1250. doi: 10.1038/s41467-017-01170-7
8. Guenschmann C, Stachelscheid H, Akyüz MD, *et int*, **Niessen CM**. Insulin/IGF-1 controls epidermal morphogenesis via regulation of FoxO-mediated p63 inhibition. *Dev Cell*. 2013 Jul 29;26(2):176-87. doi: 10.1016/j.devcel.2013.05.017.
9. Niessen MT, Scott J, Zielinski J, *et int*, **Niessen CM**. aPKC λ controls epidermal homeostasis and stem cell fate through regulation of division orientation. *J Cell Biol*. 2013 Sep 16;202(6):887-900. doi: 10.1083/jcb.201307001.
10. Stachelscheid H, Ibrahim H, Koch L, *et int*, **Niessen CM**. Epidermal Insulin/IGF-1 signaling control interfollicular morphogenesis and proliferative potential via Rac activation. *EMBO J*. 2008 Aug 6;27(15):2091-101. doi: 10.1038/emboj.2008.141.