

Curriculum Vitae Michael Fuchs

Personal Data

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Selection of peer-reviewed research articles:

1. **Fuchs M**, Möchel M, Radeva MY, *et int*, Waschke J. In desmosomes direct inhibition precedes p38MAPK-mediated uncoupling to reduce Dsg3 adhesion by pemphigus autoantibodies. *Br J Dermatol*. 2025 Apr 23;lja142. doi: 10.1093/bjd/lja142.
2. Egu DT, Schmitt T, Ernst N, *et int*, **Fuchs M**, *et int*, Waschke J. EGFR Inhibition by Erlotinib Rescues Desmosome Ultrastructure and Keratin Anchorage and Protects against Pemphigus Vulgaris IgG-Induced Acantholysis in Human Epidermis. *J Invest Dermatol*. 2024 Nov;144(11):2440-2452. doi: 10.1016/j.jid.2024.03.040.
3. Steinert L, **Fuchs M**, Sigmund AM, *et int*, Vielmuth F. Desmosomal Hyper-Adhesion Affects Direct Inhibition of Desmoglein Interactions in Pemphigus. *J Invest Dermatol*. 2024 Dec;144(12):2682-2694.e10. doi: 10.1016/j.jid.2024.03.042.
4. Sigmund AM, Winkler M, Engelmayer S, *et int*, **Fuchs M**, *et int*, Waschke J. Apremilast prevents blistering in human epidermis and stabilizes keratinocyte adhesion in pemphigus. *Nat Commun*. 2023 Jan 9;14(1):116. doi: 10.1038/s41467-022-35741-0.
5. **Fuchs M**, Radeva MY, Spindler V, *et int*, Waschke J. Cytoskeletal anchorage of different Dsg3 pools revealed by combination of hybrid STED/SMFS-AFM. *Cell Mol Life Sci*. 2023 Jan 5;80(1):25. doi: 10.1007/s00018-022-04681-9.
6. **Fuchs M**, Kugelmann D, Schlegel N, *et int*, Waschke J. Desmoglein 2 can undergo Ca²⁺-dependent interactions with both desmosomal and classical cadherins including E-cadherin and N-cadherin. *Biophys J*. 2022 Apr 5;121(7):1322-1335. doi: 10.1016/j.bpj.2022.02.023.
7. **Fuchs M**, Sigmund AM, Waschke J, Vielmuth F. Desmosomal Hyperadhesion Is Accompanied with Enhanced Binding Strength of Desmoglein 3. *Molecules. Biophys J*. 2020 Oct 20;119(8):1489-1500. doi: 10.1016/j.bpj.2020.09.008.
8. Kugelmann D, Rötzer V, Walter E, *et int*, **Fuchs M**, *et int*, Waschke J. Role of Src and Cortactin in Pemphigus Skin Blistering. *Front Immunol*. 2019 Apr 4;10:626. doi: 10.3389/fimmu.2019.00626.
9. **Fuchs M**, Foresti M, Radeva MY, *et int*, Vielmuth F. Plakophilin 1 but not plakophilin 3 regulates desmoglein clustering. *Cell Mol Life Sci*. 2019 Sep;76(17):3465-3476. doi: 10.1007/s00018-019-03083-8.
10. Vielmuth F, Walter E, **Fuchs M**, *et int*, Waschke J. Keratins regulate p38MAPK-dependent desmoglein binding properties in pemphigus. *Frontiers in Immunology*, 2018 Mar 19;9:528. doi: 10.3389/fimmu.2018.00528.