

Curriculum Vitae Franziska Hartig-Vielmuth

Personal Data

Title	Prof. Dr. med.
First name	Franziska
Name	Hartig-Vielmuth
Current position	Professorship (W2, tenure-track until 09/30/2030)
Current institution(s)/site(s), country	Institute of Anatomy, Chair of Vegetative Anatomy, Faculty of Medicine, Ludwig-Maximilians-University (LMU Munich), Germany
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Selection of peer-reviewed research articles:

1. Sigmund AM, Bayerbach FC, Kugelmann D, *et int*, Waschke J[#], **Vielmuth F[#]**. Epac1 contributes to apremilast-mediated rescue of pemphigus autoantibody-induced loss of keratinocyte adhesion. *JCI Insight*. 2025 Apr 29;10(10):e187481. doi: 10.1172/jci.insight.187481.
2. 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.
3. Sigmund AM, Winkler M, Engelmayer S, *et int*, **Vielmuth F[#]**, 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.
4. Fuchs M, Kugelmann D, Schlegel N, **Vielmuth F[#]**, 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.
5. Sigmund AM, Steinert LS, Egu DT, *et int*, **Vielmuth F**. Dsg2 Upregulation as a Rescue Mechanism in Pemphigus. *Front Immunol*. 2020 Oct 28;11:581370. doi: 10.3389/fimmu.2020.581370.
6. 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.
7. Fuchs M, Foresti M, Radeva MY, *et int*, **Vielmuth F**. Plakophilin 1 but not plakophilin 3 regulates desmoglein clustering. *Cell Mol Life Sci*. 2019 Apr 4. doi: 10.1007/s00018-019-03083-8.
8. **Vielmuth F**, Wanuske MT, Radeva MY, *et int*, Spindler V. Keratins Regulate the Adhesive Properties of Desmosomal Cadherins through Signaling. *J Invest Dermatol*. 2018 Jan;138(1):121-131. doi: 10.1016/j.jid.2017.08.033.
9. **Vielmuth F**, Walter E, Fuchs M, *et int*, Waschke J. Keratins Regulate p38MAPK-Dependent Desmoglein Binding Properties in Pemphigus. *Front Immunol*. 2018 Mar 19;9:528. doi: 10.3389/fimmu.2018.00528.
10. **Vielmuth F**, Waschke J, Spindler V. Loss of Desmoglein Binding Is Not Sufficient for Keratinocyte Dissociation in Pemphigus. *J Invest Dermatol*. 2015 Dec;135(12):3068-3077. doi: 10.1038/jid.2015.324.