

Curriculum Vitae Kai Kretzschmar

Personal Data

Title	Ph.D.
First name	Kai
Name	Kretzschmar
Current position	Junior Group Leader (fixed-term until 03/31/2028)
Current institution(s)/site(s), country	Julius-Maximilians-University Würzburg (JMU Würzburg), and University Hospital Würzburg (UKW), Germany
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Selection of peer-reviewed research articles:

1. Seubert AC, Krafft M, Bopp S, *et int*, **Kretzschmar K**. Spatial transcriptomics reveals molecular cues underlying the site specificity of the adult mouse oral mucosa and its stem cell niches. *Stem Cell Reports*. 2024 Dec 10;19(12):1706-1719. doi: 10.1016/j.stemcr.2024.10.007.
2. Kollmann C, Buerkert H, Meir M, Richter K, **Kretzschmar K**, *et int*, Schlegel N. Human organoids are superior to cell culture models for intestinal barrier research. *Front Cell Dev Biol*. 2023 Oct 2;11:1223032. doi: 10.3389/fcell.2023.1223032.
3. Yang ASP, Dutta D, **Kretzschmar K**, *et int*, Sauerwein RW. Development of Plasmodium falciparum liver-stages in hepatocytes derived from human fetal liver organoid cultures. *Nat Commun*. 2023 Aug 2;14(1):4631. doi: 10.1038/s41467-023-40298-7.
4. Dekkers JF, Alieva M, Cleven A, *et int*, **Kretzschmar K**, *et int*, Rios AC. Uncovering the mode of action of engineered T cells in patient cancer organoids. *Nat Biotechnol*. 2023 Jan;41(1):60-69. doi: 10.1038/s41587-022-01397-w.
5. **Kretzschmar K**, Boonekamp KE, Bleijs M, *et int*, Clevers H. Troy/Tnfrsf19 marks epidermal cells that govern interfollicular epidermal renewal and cornification. *Stem Cell Reports*. 2021 Sep 14;16(9):2379-2394. doi: 10.1016/j.stemcr.2021.07.007.
6. Demmers LC, **Kretzschmar K**, Van Hoeck A, *et int*, Wu W. Single-cell derived tumor organoids display diversity in HLA class I peptide presentation. *Nat Commun*. 2020 Oct 21;11(1):5338. doi: 10.1038/s41467-020-19142-9.
7. Driehuis E, **Kretzschmar K**, Clevers H. Establishment of patient-derived cancer organoids for drug-screening applications. *Nat Protoc*. 2020 Oct;15(10):3380-3409. doi: 10.1038/s41596-020-0379-4.
8. Boonekamp KE, **Kretzschmar K**, Wiener DJ, *et int*, Clevers H. Long-term expansion and differentiation of adult murine epidermal stem cells in 3D organoid cultures. *Proc Natl Acad Sci U S A*. 2019 Jul 16;116(29):14630-14638. doi: 10.1073/pnas.1715272116.
9. Karmouch J, Zhou QQ, Miyake CY, Lombardi R, **Kretzschmar K**, *et int*, Marian AJ. Distinct Cellular Basis for Early Cardiac Arrhythmias, the Cardinal Manifestation of Arrhythmogenic Cardiomyopathy, and the Skin Phenotype of Cardiocutaneous Syndromes. *Circ Res*. 2017 Dec 8;121(12):1346-1359. doi: 10.1161/CIRCRESAHA.117.311876.
10. **Kretzschmar K**, Weber C, Driskell RR, Calonje E, Watt FM. Compartmentalized Epidermal Activation of β -Catenin Differentially Affects Lineage Reprogramming and Underlies Tumor Heterogeneity. *Cell Rep*. 2016 Jan 12;14(2):269-81. doi: 10.1016/j.celrep.2015.12.041.