Curriculum vitae

Dr. med. Jens Christian Krause

kinderarzt@jckrause.de
https://jckrause.de

Wissenschaftliche Ausbildung

1986–1996 **Abitur,** Landrat-Lucas-Gymnasium, Leverkusen
1997–2000 **Physikum,** Heinrich-Heine-Universität, Düsseldorf
2003 **Ärztliche Prüfung,** Note: *sehr gut* (1,0), Ruprecht-Karls-Universität, Heidelberg
2004 **ECFMG-Zertifikat**, Educational Commission for Foreign Medical Graduates
2012 **Medizinische Dissertation,** *summa cum laudae,* Ruprecht-Karls-Universität, Heidelberg

Berufliche Aktivitäten

Juli 2004 – Juni 2007 **US-Ausbildung in Kinderheilkunde,** Baystate Medical Center, Tufts University School of Medicine, Springfield, MA
Juli 2007 – Juni 2011 **US-Subspezialisierung in Kinderinfektiologie,** Vanderbilt Children's Hospital, Vanderbilt University Medical Center, Nashville, TN
Juli 2011 – Juni 2012 **Assistant Professor (Research Track),** Department of Microbiology, Mount Sinai School of Medicine, New York, NY
Juli 2012 – Juni 2016 **Assistenzarzt,** Zentrum für Kinder- und Jugendmedizin, Klinik I, Universität Freiburg
Juli 2016 – März 2019 **Facharzt,** Landratsamt Breisgau-Hochschwarzwald, Kinder- und Jugendärztlicher Dienst
01.04.2019 – **Niederlassung als Facharzt für Kinder- und Jugendmedizin,** Rottweil

Erhaltene Preise und Stipendien

2000–2003 **Studienstiftung des deutschen Volkes,** Bonn
2007 **Child Life Award,** Baystate Children's Hospital
2008–2010 **Fellowship Grant,** Pediatric Infectious Diseases Society
2011 **Vanderbilt Postdoctoral Researcher of the Year Award,** Vanderbilt Medical Alumni Association
2011 **Fellows Travel Grant,** Infectious Diseases Society of America

Ausgewählte Publikationen

Originalarbeiten

- **Krause JC,** Tumpey TM, Huffman CJ, McGraw PA, Pearce MB, Tsibane T, Hai R, Basler CF, Crowe JE: *Naturally-occurring human monoclonal antibodies potently*

neutralize both 1918 and 2009 A(H1N1) pandemic influenza viruses.[1] **Journal of Virology,** 2010; 84:3127–3130. PMID: 20042511

- Xu R, Ekiert DC, **Krause JC,** Hai R, Crowe JE, Wilson IA: *Structural basis of pre-existing immunity to the 2009 H1N1 pandemic influenza virus.* **Science,** 2010; 16:357–360. PMID: 20339031

- **Krause JC,** Ekiert DC, Tumpey TM, Smith PB, Wilson IA, Crowe JE: *An insertion mutation that distorts antibody binding site architecture enhances function of a human antibody.* **mBio,** 2011; 2:e00345–10. PMID: 21304166

- **Krause JC,** Tsibane T, Tumpey TM, Huffman CJ, Briney BS, Smith SA, Basler CF, Crowe JE: *Epitope-specific human influenza antibody repertoires diversify by simultaneous B cell intraclonal sequence divergence and interclonal convergence.*[2] **Journal of Immunology,** 2011; 187:3704–3711. PMID: 21880983

- **Krause JC,** Tsibane T, Tumpey TM, Huffman CJ, Basler CF, Crowe JE: *A broadly neutralizing human monoclonal antibody that recognizes a conserved, novel epitope on the globular head of influenza H1N1 virus hemagglutinin.* **Journal of Virology,** 2011; 85:10905–10908. PMID: 21849447

- Wen X, **Krause JC,** Leser GP, Cox RG, Lamb RA, Williams JV, Crowe JE, Jardetzky TS: *Structure of the human metapneumovirus fusion protein with neutralizing antibody identifies pneumovirus antigenic site.* **Nature Structural & Molecular Biology,** 2012; 19:461–463. PMID: 22388735

- **Krause JC,** Tsibane T, Tumpey TM, Huffman CJ, Albrecht R, Blum D, Ramos I, Fernandez-Sesma A, Edwards KM, García-Sastre A, Basler CF, Crowe JE: *Human monoclonal antibodies to pandemic 1957 H2N2 influenza virus target the receptor-binding site.* **Journal of Virology,** 2012; 86:6334–6340. PMID: 22457520

- Tsibane T, Ekiert DC, **Krause JC,** Martinez O, Crowe JE, Wilson IA, Basler CF: *Influenza human monoclonal antibody 1F1 interacts with two major antigenic sites in H1N1 viruses and residues mediating human receptor specificity.* **PLoS Pathogens,** 2012;8:e1003067. PMID: 23236279

- Xu R, **Krause JC,** McBride R, Paulson JC, Crowe JE, Wilson IA: *A recurring motif for antibody recognition of the most conserved portion of the receptor-binding site of influenza hemagglutinin.* **Nature Structural & Molecular Biology,** 2013; 20:363–370. PMID: 23396351

- Seibert CW, Rahmat S, **Krause JC,** Eggink D, Albrecht RA, Goff PH, Krammer F, Duty JA, Bouvier NM, García-Sastre A, Palese P: *IgA is sufficient to prevent influenza virus transmission in guinea pigs.* **Journal of Virology,** 2013; 87:7793–7804. PMID: 23698296

[1] Dieser Artikel wurde von den Herausgebern als ein Paper von signifikantem Interesse hervorgehoben.
[2] Diese Arbeit wurde von den Herausgebern als einer der Top-10 %-Artikel in diesem Journal hervorgehoben.

- Hong M, Lee PS, Hoffman RM, Zhu X, **Krause JC,** Laursen NS, Yoon SI, Song L, Tussey L, Crowe JE, Ward AB, Wilson IA: *Antibody recognition of the pandemic H1N1 influenza hemagglutinin receptor binding site.* **Journal of Virology,** 2013; 87:12471–12480. PMID: 24027321

Kasuistik

- **Krause JC,** Ghandil P, Chrabieh M, Casanova JL, Picard C, Puel A, Creech BC: *Very late onset group B streptococcus meningitis, sepsis, and systemic shigellosis due to interleukin-1 receptor-associated kinase-4 deficiency.* **Clinical Infectious Diseases,** 2009; 49:1393-1396. PMID: 19814626

Buchkapitel

- **Krause JC,** Crowe JE: *Commit the oldest sins the newest kind of ways—antibodies targeting the influenza A hemagglutinin globular head.* In: Crowe JE, Boraschi D, Rappuoli R (Hrsg.), **Antibodies for Infectious Diseases.** American Society for Microbiology, 2014. Cross-publication in **Microbiology Spectrum**