Kantonsspital St.Gallen

Ronald Dijkman

Kontakt

Ronald Dijkman

Bereiche

Institut für Immunbiologie

Publikationen (23)

Kahlert C, Nigg S, Onder L, Dijkman R, Diener L, Vidal A, Rodriguez R, Vernazza P, Thiel V, Vidal J, Albrich W. The quorum sensing com system regulates pneumococcal colonisation and invasive disease in a pseudo-stratified airway tissue model. Microbiol Res 2022; 268:127297.

Hamming O, Thiel V, Pietschmann T, Siupka P, Akhtar H, Jørgensen S, Dijkman R, Vieyres G, Terczyńska-Dyla E, Hartmann R. Interferon lambda 4 signals via the IFNλ receptor to regulate antiviral activity against HCV and coronaviruses. EMBO J 2013; 32:3055-65.

Lohrmann F, Dijkman R, Stertz S, Thiel V, Haller O, Staeheli P, Kochs G. Emergence of a C-terminal seven-amino-acid elongation of NS1 in around 1950 conferred a minor growth advantage to former seasonal influenza A viruses. J Virol 2013; 87:11300-3.

Bertram S, Thiel V, Hofmann-Winkler H, Schneider H, Winkler M, Welsch K, Glowacka I, Gierer S, Heurich A, Habjan M, Dijkman R, Pöhlmann S. TMPRSS2 Activates the Human Coronavirus 229E for Cathepsin-Independent Host Cell Entry and Is Expressed in Viral Target Cells in the Respiratory Epithelium. J Virol 2013; 87:6150-60.

Raj V, Bosch B, Osterhaus A, Rottier P, Drosten C, Thiel V, Fouchier R, Zaki A, Demmers J, Muth D, Dijkman R, Müller M, Dekkers D, Smits S, Mou H, Haagmans B. Dipeptidyl peptidase 4 is a functional receptor for the emerging human coronavirus-EMC. Nature 2013; 495:251-4.

Dijkman R, Thiel V, Goossens H, Ieven M, Molenkamp R, Jonsdottir H, Deijs M, Koekkoek S, Jebbink M, van der Hoek L. Isolation and characterization of current human coronavirus strains in primary human epithelial cell cultures reveal differences in target cell tropism. J Virol 2013; 87:6081-90.

Kindler E, Dijkman R, Müller M, Drosten C, Fouchier R, Geffers R, Rodriguez R, Hartmann R, Hamming O, Muth D, Jonsdottir H, Thiel V. Efficient replication of the novel human betacoronavirus EMC on primary human epithelium highlights its zoonotic potential. MBio 2013; 4:e00611-12.

Farsani S, Dijkman R, Jebbink M, Goossens H, Ieven M, Deijs M, Molenkamp R, van der Hoek L. The first complete genome sequences of clinical isolates of human coronavirus 229E. Virus Genes 2012

Dijkman R, Jebbink M, Deijs M, Milewska A, Pyrc K, Buelow E, van der Bijl A, van der Hoek L. Replication-dependent downregulation of cellular angiotensin-converting enzyme 2 protein expression by human coronavirus NL63. J Gen Virol 2012; 93:1924-9.

van den Worm S, Thiel V, Snijder E, Siddell S, Chang G, Dijkman R, Kuri T, Züst R, Weber F, Zevenhoven J, Eriksson K, Davidson A. Reverse genetics of SARS-related coronavirus using vaccinia virus-based recombination. PloS one 2012; 7:e32857.

Dijkman R, Jebbink M, Gaunt E, Rossen J, Templeton K, Kuijpers T, van der Hoek L. The dominance of human coronavirus OC43 and NL63 infections in infants. J Clin Virol 2011; 53:135-9.

Sastre P, Dijkman R, Camuñas A, Ruiz T, Jebbink M, van der Hoek L, Vela C, Rueda P. Differentiation between human coronaviruses NL63 and 229E using a novel double-antibody sandwich enzyme-linked immunosorbent assay based on specific monoclonal antibodies. Clin Vaccine Immunol 2010; 18:113-8.

Pyrc K, van der Hoek L, Baric R, Vabret A, Donaldson E, Deming D, Long C, Jebbink M, Dijkman R, Sims A, Pickles R. Culturing the unculturable: human coronavirus HKU1 infects, replicates, and produces progeny virions in human ciliated airway epithelial cell cultures. J Virol 2010; 84:11255-63.

van der Hoek L, Ihorst G, Sure K, Vabret A, Dijkman R, de Vries M, Forster J, Berkhout B, Uberla K. Burden of disease due to human coronavirus NL63 infections and periodicity of infection. J Clin Virol 2010; 48:104-8.

Dijkman R, Mulder H, Rumping L, Kraaijvanger I, Deijs M, Jebbink M, Verschoor E, van der Hoek L. Seroconversion to HCoV-NL63 in Rhesus Macaques. Viruses 2009; 1:647-56.

Dijkman R, Koekkoek S, Molenkamp R, Schildgen O, van der Hoek L. Human bocavirus can be cultured in differentiated human airway epithelial cells. J Virol 2009; 83:7739-48.

Dijkman R, van der Hoek L. Human coronaviruses 229E and NL63: close yet still so far. J Formos Med Assoc 2009; 108:270-9.

Dijkman R, Jebbink M, El Idrissi N, Pyrc K, Müller M, Kuijpers T, Zaaijer H, van der Hoek L. Human coronavirus NL63 and 229E seroconversion in children. J Clin Microbiol 2008; 46:2368-73.

de Vries M, Pyrc K, Berkhout R, Vermeulen-Oost W, Dijkman R, Jebbink M, Bruisten S, Berkhout B, van der Hoek L. Human parechovirus type 1, 3, 4, 5, and 6 detection in picornavirus cultures. J Clin Microbiol 2007; 46:759-62.

Dijkman R, Thiel V, Berkhout B, Franklin S, Minor P, Zaaijer H, Pyrc K, Wilbrink B, Jebbink M, van der Hoek L. Human coronavirus 229E encodes a single ORF4 protein between the spike and the envelope genes. Virol J 2006; 3:106.

Pyrc K, Dijkman R, Deng L, Jebbink M, Ross H, Berkhout B, van der Hoek L. Mosaic structure of human coronavirus NL63, one thousand years of evolution. J Mol Biol 2006; 364:964-73.

Schildgen O, Jebbink M, de Vries M, Pyrc K, Dijkman R, Simon A, Müller A, Kupfer B, van der Hoek L. Identification of cell lines permissive for human coronavirus NL63. J Virol Methods 2006; 138:207-10.

Pyrc K, Bosch B, Berkhout B, Jebbink M, Dijkman R, Rottier P, van der Hoek L. Inhibition of human coronavirus NL63 infection at early stages of the replication cycle. Antimicrob Agents Chemother 2006; 50:2000-8.

Projekte (4)

Secretome analysis of the human airway epithelium following human respiratory virus infection

Grundlagenforschung - 01.01.2013 - 31.12.2013

Abgeschlossen

Genetic modification of the human airway epthelium - a paradigmatic system to study host responses to human respiratory viruses

Grundlagenforschung - 01.07.2012 - 31.12.2013

Abgeschlossen

Genetic modification of the human airway epithelium – a paradigmatic system to study host responses to human respiratory viruses

Grundlagenforschung - 01.01.2012 - 31.12.2012

Abgeschlossen

Impact of RNA modification on coronavirus-induced innate immune responses

Grundlagenforschung - 01.10.2010 - 30.09.2013

Abgeschlossen