



Roland Züst

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Units

Institute of Immunobiology

Publications (16)

Signer J, Schoop R, Suter A, Siegrist D, Lenz N, Ackermann-Gäumann R, Ryter S, Züst R, Strasser M, Albrich W, Jonsdottir H, Engler O. Author Correction: In vitro virucidal activity of Echinaforce, an Echinacea purpurea preparation, against coronaviruses, including common cold coronavirus 229E and SARS-CoV-2. *Viol J* 2020; 17:172.

Signer J, Schoop R, Suter A, Siegrist D, Lenz N, Ackermann-Gäumann R, Ryter S, Züst R, Strasser M, Albrich W, Jonsdottir H, Engler O. In vitro virucidal activity of Echinaforce®, an Echinacea purpurea preparation, against coronaviruses, including common cold coronavirus 229E and SARS-CoV-2. *Viol J* 2020; 17:136.

Kindler E, Karl N, Gaughan C, van Kuppeveld F, Silverman R, Keller M, Ludewig B, Bergmann C, Ziebuhr J, Weiss S, Kalinke U, Elliot R, Cervantes-Barragan L, Habjan M, Gil Cruz C, Spanier J, Li Y, Wilhelm J, Rabouw H, Züst R, Hwang M, V'kovski P, Stalder H, Marti S, Thiel V. Early endonuclease-mediated evasion of RNA sensing ensures efficient coronavirus replication. *PLoS Pathog* 2017; 13:e1006195.

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Nindl V, Rülcke T, Rudin M, Kopf M, Di Padova F, Scandella E, Thiel V, Züst R, De Giuli R, Ratering D, Maier R, Ludewig B. Cooperation of Th1 and Th17 cells determines transition from autoimmune myocarditis to dilated cardiomyopathy. *Eur J Immunol* 2012; 42:2311-21.

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Pfefferle S, Hilgenfeld R, Schwarz F, Zimmer R, Steffen I, Weber F, Thiel V, Herrler G, Thiel H, Schwegmann-Weßels C, Pöhlmann S, Haas J, Drosten C, Pumpor K, Züst R, Schöpf J, Kögl M, Friedel C, Müller M, Carbajo-Lozoya J, Stellberger T, von Dall'armi E, Herzog P, Kallies S, Niemeyer D, Ditt V, Kuri T, von Brunn A. The SARS-Coronavirus-Host Interactome: Identification of Cyclophilins as Target for Pan-Coronavirus Inhibitors. *PLoS Pathog* 2011; 7:e1002331.

Kuri T, Ziebuhr J, Thiel V, Siddell S, Davidson A, Snijder E, Züst R, Putics A, Eriksson K, Weber F. The ADP-ribose-1"-monophosphatase domains of severe acute respiratory syndrome coronavirus and human coronavirus 229E mediate resistance to antiviral interferon responses. *J Gen Virol* 2011; 92:1899-905.

Züst R, Ludewig B, Siddell S, Diamond M, Barchet W, Baker S, Szretter K, Ziebuhr J, Neuman B, Maier R, Habjan M, Cervantes-Barragan L, Thiel V. Ribose 2'-O-methylation provides a molecular signature for the distinction of self and non-self mRNA dependent on the RNA sensor Mda5. *Nat Immunol* 2011; 12:137-43.

Daffis S, Shi P, Gale Jr M, Buller R, Pierson T, Klimstra W, Fensterl V, Sen G, Thiel V, Dong H, Züst R, Schneller S, Lin T, Errett J, Youn S, Li J, Schriewer J, Szretter K, Diamond M. 2'-O methylation of the viral mRNA cap evades host restriction by IFIT family members. *Nature* 2010; 468:452-456.

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Bocharov G, Züst R, Cervantes-Barragan L, Luzyanina T, Chiglintsev E, Chereshnev V, Thiel V, Ludewig B. A systems immunology approach to plasmacytoid dendritic cell function in cytopathic virus infections. *PLoS Pathog* 2010; 6:e1001017.

Cervantes-Barragan L, Kalinke U, Züst R, König M, Reizis B, López-Macías C, Thiel V, Ludewig B. Type I IFN-mediated protection of macrophages and dendritic cells secures control of murine coronavirus infection. *Journal of immunology (Baltimore, Md. : 1950)* 2009; 182:1099-106.

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Züst R, Cervantes-Barragan L, Kuri T, Blakqori G, Weber F, Ludewig B, Thiel V. Coronavirus non-structural protein 1 is a major pathogenicity factor: implications for the rational design of coronavirus vaccines. *PLoS pathogens* 2007; 10;3(8):e109:1062-1072.

Cervantes-Barragan L, Züst R, Weber F, Spiegel M, Lang K, Akira S, Thiel V, Ludewig B. Control of coronavirus infection through plasmacytoid dendritic-cell-derived type I interferon. *Blood* 2007; 109:1131-7.

Projects (2)

Reverse genetic analysis of coronavirus replication

Fundamental Research - Jan 1, 2009 - Dec 31, 2009

Completed

Reverse genetic analysis of coronavirus replication

Fundamental Research - Oct 1, 2007 - Sep 30, 2010

Completed

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