



## Publications

### 2018

S. Dai-Lun, U. Siebert, J. Lakemeyer, M. Grilo, I. Pawliczka, N.-H. Wu, **P. Valentin-Weigand**, G. Herrler, L. Haas. A Highly Pathogenic Avian Influenza Virus (H5N8) isolated from a Baltic Grey Seal. Submitted to EID (Dispatch)

D. Paegelow, C. Chhatbar, A. Beineke, X. Liu, A. Nerlich, M. Rohde, U. Kalinke, R. Förster, S. Halle, **P. Valentin-Weigand**, M. Hornef, M. Fulde. The olfactory epithelium as a portal of entry in neonatal CNS infection. Nature Commun (revised version submitted)

J. Tong, Y. Fu, F. Meng, N. Krüger, **P. Valentin-Weigand\***, G. Herrler\*. Paramyxovirus surface glycoproteins enhance adherence of group B streptococci to respiratory epithelial cells in a sialic acid-dependent manner Front Cell Infect Microbiol. 2018 Aug 17;8:280. doi: 10.3389/fcimb.2018.00280. eCollection 2018. *\*equal contribution*

V. Rungelrath, C. Weiße, N. Schütze, U. Müller, M. Meurer, M. Rohde, J. Seele, **P. Valentin-Weigand**, M. Kirschfink, A. Beineke, W. Schrödl, R. Bergmann, C.G. Baums. IgM cleavage by *Streptococcus suis* reduces IgM bound to the bacterial surface and is a novel complement evasion mechanism, Virulence 2018, 9:1, 1314-1337, DOI: 10.1080/21505594.2018.1496778

J. Seele, S.C. Tauber, S. Bunkowski, C.G. Baums, **P. Valentin-Weigand**, N. de Buhr, A. Beineke, A.I. Iliev, W. Brück, R. Nau. The inflammatory response and neuronal injury in *Streptococcus suis* meningitis. BMC Infect Dis 2018 Jul 3; 18(1):297. doi: 10.1186/s12879-018-3206-6

D. Vötsch, M. Willenborg, Y.B. Weldearegay, **P. Valentin-Weigand**. *Streptococcus suis* - the two faces of a pathobiont in the porcine respiratory tract. Front Microbiol 2018 Mar 15;9:480. doi: 10.3389/fmicb.2018.00480.

J. Tong, Y. Fu, N.-H. Wu, M. Rohde, F. Meng, **P. Valentin-Weigand\***, G. Herrler\*. Sialic acid-dependent interaction of group B streptococci with influenza virus-infected cells reveals a novel adherence and invasion mechanism. Cell Microbiol.2018; 20:e12818. <https://doi.org/10.1111/cmi.12818>. *\*equal contribution*

D. Mzinza, H. Fleige, K. Laarmann, S. Willenzon, J. Ristenpart, J. Spanier, G. Sutter, U. Kalinke, **P. Valentin-Weigand**, R. Förster. Application of light sheet microscopy for qualitative and quantitative analysis of bronchus-associated lymphoid tissue in mice. Cell Mol Immunol 2018, Feb12. doi: 10.1038/cmi.2017.150.

### 2017

N. Siemens, S. Oehmcke-Hecht, T.C. Mettenleiter, B. Kreikemeyer, **P. Valentin-Weigand**, S. Hammerschmidt. Port d'entrée for respiratory infections does the virus pave the way for bacteria? Front Microbiol 2017 Dec 21; 8:2602. doi: 10.3389/fmicb.2017.02602. eCollection.

V. Rungelrath, J. Wohlsein, U. Siebert, J. Stott, E. Prenger-Berninghoff, U. von Pawel-Rammingen, **P. Valentin-Weigand**, C.G. Baums, J. Seele. Identification of a novel host-specific IgG protease in *Streptococcus phocae* subspecies *phocae*. Vet Microbiol 2017; 201:42-48

A. Koczula, M. Jarek, C. Visscher, **P. Valentin-Weigand**, R. Goethe, J. Willenborg. Transcriptomic Analysis Reveals Selective Metabolic Adaptation of *Streptococcus suis* to Porcine Blood and Cerebrospinal Fluid. Pathogens. 2017 Feb 15;6(1). pii: E7. doi: 10.3390/pathogens6010007.

N. De Buhr, F. Reuner, A. Neumann, C. Stump-Guthier, T. Tenenbaum, H. Schrotten, H. Ishikawa, K. Müller, A. Beineke, I. Hennig-Pauka, T. Gutschmann, **P. Valentin-Weigand**, C.G. Baums, M. von Köckritz-Blickwede. Neutrophil extracellular trap formation in the *Streptococcus suis*-infected cerebrospinal fluid compartment. Cell Microbiol. 2017 Feb; 19(2). doi: 10.1111/cmi.12649.

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N.-H. Wu, W. Yang, F. Meng, R. Dijkman, M. Matrosovich, V. Thiel, **P. Valentin-Weigand**, G. Herrler. The differentiated airway epithelium infected by influenza viruses maintains

the barrier function despite a dramatic loss of ciliated cells. *Sci Rep* 2016 Dec 22;6:39668. doi: 10.1038/srep39668.

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F. Warneboldt, S.J. Sander, A. Beineke, **P. Valentin-Weigand**, J. Kamphues, C.G. Baums. Clearance of *Streptococcus suis* in stomach contents of differently fed growing pigs *Pathogens* 2016 Aug 6;5(3). pii: E56. doi: 10.3390/pathogens5030056.

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G.-J. Verkühlen, D. Pägelow, **P. Valentin-Weigand**, Marcus Fulde. SCM-positive *Streptococcus canis* are predominant among pet-associated group G streptococci. *Berl Munch Tierarztl Wochenschr*. 2016 May-Jun;129(5-6):247-50.

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N.H. Wu, F. Meng, M. Seitz, **P. Valentin-Weigand**, G. Herrler. Sialic acid-dependent interactions between influenza viruses and *Streptococcus suis* affect the infection of porcine tracheal cells. *J General Virol*. 2015; 96:2557-2568

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