CURRICULUM VITAE

Personal Information

Name	Wentao Li	Gender	Male
Position Title		Professor	
Working Department		Department of Preventive Veterinary Medicine, College of Veterinary Medicine	
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Research Interest

1. Isolation and characterization of newly emerging viruses.
2. Virus interaction with the host cell.
3. Determinants of positive strand RNA viruses (including coronaviruses) inter-species transmissibility.
4. Development of intervention strategies (antibodies, vaccines, drugs) for emerging viruses.

Education & Working Experience

2020/12 – present Professor

Department of Preventive Veterinary Medicine, College of Veterinary Medicine, Huazhong Agricultural University, Wuhan, China

2015/07 – 2020/12 Postdoctoral scientist

Department of Infectious Diseases & Immunology, Faculty of Veterinary Medicine, Utrecht University, Utrecht, The Netherlands

2015/01 – 2018/02 PhD in Veterinary Virology (Doctorate: 08-02-2018)

Department of Infectious Diseases & Immunology, Faculty of Veterinary Medicine, Utrecht University, Utrecht, The Netherlands

Supervisors: Dr. Berend Jan Bosch and prof. Dr. P.J.M. (Peter) Rottier

2013/05 – 2014/12 Visiting PhD student

Department of Infectious Diseases & Immunology, Faculty of Veterinary Medicine, Utrecht University, Utrecht, The Netherlands

Supervisors: Dr. Berend Jan Bosch and prof. Dr. P.J.M. (Peter) Rottier

2008/09-2014/12 PhD in Preventive Veterinary Medicine (Doctorate: 29-12-2014)

State Key Laboratory of Agricultural Microbiology, College of Veterinary Medicine, Huazhong Agricultural University, Wuhan, China

Supervisor: Prof. Dr. Qigai He

2004/09-2008/06 B.S. in Bioengineering

College of Veterinary Medicine, Sichuan Agricultural University, Sichuan, China

Publications

1. Wang, C.#, **Li, W.**#, Drabek, D#., Okba, N., van Haperen, R., Osterhaus, A., van Kuppeveld, F., Haagmans, B. L., Grosveld, F., & Bosch, B. J.* (2020). A human monoclonal antibody blocking SARS-CoV-2 infection. Nature Communications, 11(1), 1-6. (#Co-first author)
2. Okba, N. M.#, Müller, M. A.#, **Li, W.**#, Wang, C., GeurtsvanKessel, C. H., Corman, V. M., Lamers, M. M., Sikkema, R. S., de Bruin, E., Chandler, F. D., Yazdanpanah, Y., Le Hingrat, Q., Descamps, D., Houhou-Fidouh, N., Reusken, C., Bosch, B. J., Drosten, C., Koopmans, M., & Haagmans, B. L*. (2020). Severe acute respiratory syndrome coronavirus 2-specific antibody responses in coronavirus disease 2019 patients. Emerging infectious diseases, 26(7). (#Co-first author)
3. **Li. W.**#, R. J. G. Hulswit#, S. P. Kenney#, I. Widjaja, K. Jung, M. A. Alhamo, B. van Dieren, F. J. M. van Kuppeveld, L. J. Saif*, B. J. Bosch*, (2018). Broad receptor engagement of an emerging global coronavirus may potentiate its diverse cross-species transmissibility. PNAS, 115 (22), E5135-E5143 (#Co-first author)
4. **Li. W.**#, R. J. G. Hulswit#, I. Widjaja#, V. S. Raj, R. McBride, W. Peng, W. Widagdo, M. A. Tortorici, B. van Dieren, Y. Lang, J. W. M. van Lent, J. C. Paulson, C. A. M. de Haan, R. J. de Groot, F. J. M. van Kuppeveld, B. L. Haagmans and B. J. Bosch* (2017). Identification of sialic acid-binding function for the Middle East respiratory syndrome coronavirus spike glycoprotein. PNAS, 114 (40), E8508-E8517. (#Co-first author)
5. Li, C.#, **Li, W.**#, de Esesarte, E.L., Guo, H., van den Elzen, P., Aarts, E., van den Born, E., Rottier, P.J., Bosch, B. J.* (2017). Cell Attachment Domains of the Porcine Epidemic Diarrhea Virus Spike Protein Are Key Targets of Neutralizing Antibodies. Journal of Virology, 91(12): e00273-17. (#Co-first author)
6. **Li, W.**, Luo, R., He, Q., van Kuppeveld, F. J., Rottier, P. J., & Bosch, B. J. *(2017). Aminopeptidase N is not required for porcine epidemic diarrhea virus cell entry. Virus Research, 235: 6-13.
7. **Li, W.,** van Kuppeveld, F. J., He, Q., Rottier, P. J., & Bosch, B. J.* (2016). Cellular entry of the porcine epidemic diarrhea virus. Virus Research, 226, 117-127.
8. **Li, W.**, Wicht, O., van Kuppeveld, F. J., He, Q., Rottier, P. J., & Bosch, B. J.* (2015). A Single Point Mutation Creating a Furin Cleavage Site in the Spike Protein Renders Porcine Epidemic Diarrhea Coronavirus Trypsin Independent for Cell Entry and Fusion. Journal of virology, 89(15), 8077-8081.
9. **Li W.**, Li H., Liu Y., Pan Y., Deng F., Song Y., Tang X., He Q.* (2012). New variants of porcine epidemic diarrhea virus, China, 2011. Emerg Infect Dis. 18(8): 1350-1353.
10. **Li, W.**, Liu, S., Wang, Y., Deng, F., Yan, W., Yang, K., Chen, H., He, Q.*, Charreyre, C., Audonnet, J.-C. (2013). Transcription analysis of the porcine alveolar macrophage response to porcine circovirus type 2. BMC genomics, 14(1), 353.
11. Yang, K.#, **Li, W.**#, Niu, H., Yan, W., Liu, X., Wang, Y., Cheng, S., Ku, X., He, Q.* (2012). Efficacy of single dose of an inactivated porcine circovirus type 2 (PCV2) whole-virus vaccine with oil adjuvant in piglets. Acta Veterinaria Scandinavica, 54(1), 67.
12. Lang Y, **Li W**, Li Z, Koerhuis D, van den Burg ACS, Rozemuller E, Bosch BJ, van Kuppeveld FJM, Boons GJ, Huizinga EG, van der Schaar HM, de Groot RJ*. (2020) Coronavirus hemagglutinin-esterase and spike proteins coevolve for functional balance and optimal virion avidity. PNAS. 117(41):25759-25770.
13. van Tol S#, Mögling R#, **Li W,** Godeke, G. J., Swart, A., Bergmans, B., Brandenburg, A., Kremer, K., Murk, J. L., van Beek, J., Wintermans, B., Reimerink, J., Bosch, B. J., & Reusken, C*. (2020). Accurate Serology for SARS-CoV-2 and common Human Coronaviruses using a Multiplex Approach. Emerging Microbes & Infections: 1-24.
14. Hulswit, R. J.#, Lang, Y.#, Bakkers, M. J.#, **Li, W**., Li, Z., Schouten, A., Ophorst, B., van Kuppeveld, F. J. M., Boons, G.J., Bosch, B.J., Huizinga, E. G., de Groot, R. J*. (2019). Human coronaviruses OC43 and HKU1 bind to 9-O-acetylated sialic acids via a conserved receptor-binding site in spike protein domain A. PNAS, 116(7): 2681-2690.
15. Park, Y. J., Walls, A. C., Wang, Z., Sauer, M. M., **Li, W**., Tortorici, M. A., DiMaio, F., Bosch, B.J., Veesler, D*. (2019). Structures of MERS-CoV spike glycoprotein in complex with sialoside attachment receptors. Nature Structural & Molecular Biology, 26(12), 1151-1157.
16. Walls, A. C., Tortorici, M. A., Frenz, B., Snijder, J., **Li, W.**, Rey, F.A., DiMaio, F., Bosch, B.J., Veesler, D*. (2016). Glycan

shield and epitope masking of a coronavirus spike protein observed by cryo-electron microscopy. Nature structural & molecular biology, 23(10): 899-905.

17. I. Widjaja, C. Wang, R. van Haperen, J. Gutiérrez-Álvarez, B. van Dieren, N.M.A. Okba, V. Stalin Raj, **Li, W**., R. Fernandez-Delgado, F. Grosveld, F.J. M. van Kuppeveld, B.L. Haagmans, L. Enjuanes, D. Drabek, B. J. Bosch (2019). Towards a solution to MERS: protective human monoclonal antibodies targeting different domains and functions of the MERS-coronavirus spike glycoprotein. Emerging microbes & infections 8.1: 516-530.