

SIWEN LONG



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📍 Stockholm, SE-11364

Awards

- 2019 Excellent Graduate
- 2017 Excellent Postgraduate
- 2016 Excellent Postgraduate; The second one in talent show.
- 2015 Excellent Prize in Academic Performance Award
- 2014 Second Prize in Academic Performance Award; Excellent Student Award
- 2013 Excellent Student Award
- 2012 Excellence award in Karaoke competition and the 8th campus singer competition

Scholarship & grant

- CSC Scholarship (CSC No: 201906760008)
- Karolinska Institutet Research Grant – Virus Research (2021-00176)
- Karolinska Institutet Research Grant – Virus Research (2023-00395)

Language

Chinese: Native

English: IELTS 7.0

📁 Summary

Experienced professional with a strong background in molecular virology, specializing in viral-host interactions. Proven ability to manage projects, collaborate with cross-disciplinary teams, and advance research goals. Seeking a postdoctoral position to apply my expertise and contribute to gene editing and immunotherapy.

🎓 Education

**PhD | Department of Microbiology, Tumor and Cell Biology
karolinska Institutet**
expected in April 2025

**Master | Preventive Veterinary Medicine
Huazhong Agriculture University**
June 2019

**Bachelor | Animal Science
Huazhong Agriculture University**
June 2016

💻 Skills

- Cell Culture
- Virus Infection and Titration
- Molecular Cloning
- CRISPR-Cas9 Genome Editing
- Lentiviral Packaging
- Protein-Protein Interaction Assays
- Western Blotting
- Protein Purification and LLPS
- Fluorescence Microscopy
- Transmission Electron Microscopy
- Dual Luciferase Assays
- Flow Cytometry
- Bioinformatics Skills for RNA-seq

📄 Conferences

- Nobel Symposium, Medicine (May 22-25, 2022)
- RNA Granules 2023 (October 9-11, 2023)
- Nordic HIV & Virology Conference 2024
- Positive Strand RNA Viruses: Interdisciplinary Advances in Virology, Pathogenesis, Immunology, and Technology (2024)



Publications

1. **Long, S.**, Guzyk, M., Perez Vidakovics, L., Han, X., Sun, R., Wang, M., Panas, M. D., Urgard, E., Coquet, J. M., Merits, A., Achour, A., & McInerney, G. M. (2024). SARS-CoV-2 N protein recruits G3BP to double membrane vesicles to promote translation of viral mRNAs. *Nature communications*, 15(1), 10607.
2. Jing, X., Wu, J., Dong, C., Gao, J., Seki, T., Kim, C., Urgard, E., Hosaka, K., Yang, Y., **Long, S.**, Huang, P., Zheng, J., Szekely, L., Zhang, Y., Tao, W., Coquet, J., Ge, M., Chen, Y., Adner, M., & Cao, Y. (2022). COVID-19 instigates adipose browning and atrophy through VEGF in small mammals. *Nature metabolism*, 4(12), 1674–1683.
3. Rani, R., **Long, S.**, Pareek, A., Dhaka, P., Singh, A., Kumar, P., McInerney, G., & Tomar, S. (2022). Multi-target direct-acting SARS-CoV-2 antivirals against the nucleotide-binding pockets of virus-specific proteins. *Virology*, 577, 1–15.
4. Ke, W., Zhou, Y., Lai, Y., **Long, S.**, Fang, L., & Xiao, S. (2022). Porcine reproductive and respiratory syndrome virus nsp4 positively regulates cellular cholesterol to inhibit type I interferon production. *Redox biology*, 49, 102207.
5. Khorsand Kheirabad, A., Pan, X., **Long, S.**, Kochovski, Z., Zhou, S., Lu, Y., McInerney, G., & Yuan, J. (2022). Colloidal dispersion of poly(ionic liquid)/Cu composite particles for protective surface coating against SAR-CoV-2. *Nano select : open access*, 3(1), 227–232.
6. Merkl, P. †, **Long, S.** †, McInerney, G. M., & Sotiriou, G. A. (2021). Antiviral Activity of Silver, Copper Oxide and Zinc Oxide Nanoparticle Coatings against SARS-CoV2. *Nanomaterials (Basel, Switzerland)*, 11(5), 1312.
7. Zhu, X., Chen, J., Tian, L., Zhou, Y., Xu, S., **Long, S.**, Wang, D., Fang, L., & Xiao, S. (2020). Porcine Deltacoronavirus nsp5 Cleaves DCPIA To Decrease Its Antiviral Activity. *Journal of virology*, 94(15), e02162-19.
8. **Long, S.**, Zhou, Y., Bai, D., Hao, W., Zheng, B., Xiao, S., & Fang, L. (2019). Fatty Acids Regulate Porcine Reproductive and Respiratory Syndrome Virus Infection via the AMPK-ACC1 Signaling Pathway. *Viruses*, 11(12), 1145.
9. Zheng, B., Wang, X., Liu, Y., Li, Y., **Long, S.**, Gu, C., Ye, J., Xie, S., & Cao, S. (2019). Japanese Encephalitis Virus infection induces inflammation of swine testis through RIG-I-NF-κB signaling pathway. *Veterinary microbiology*, 238, 108430.
10. Ke, W., Fang, L., Jing, H., Tao, R., Wang, T., Li, Y., **Long, S.**, Wang, D., & Xiao, S. (2017). Cholesterol 25-Hydroxylase Inhibits Porcine Reproductive and Respiratory Syndrome Virus Replication through Enzyme Activity-Dependent and -Independent Mechanisms. *Journal of virology*, 91(19), e00827-17.
11. Ding, Z., Fang, L., Yuan, S., Zhao, L., Wang, X., **Long, S.**, Wang, M., Wang, D., Foda, M. F., & Xiao, S. (2017). The nucleocapsid proteins of mouse hepatitis virus and severe acute respiratory syndrome coronavirus share the same IFN-β antagonizing mechanism: attenuation of PACT-mediated RIG-I/ MDA5 activation. *Oncotarget*, 8(30), 49655–49670.

† equal contribution



Referees

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