Ren Meishen (Ph.D)

Academic qualifications:

2017.9-2021.6	PhD	Huazhong Agricultural University, Wuhan, China.
2014.9-2017.6	MSC	Sichuan Agricultural University, Chengdu, China.
2010.9-2014.6	BSc	Sichuan Agricultural University, Chengdu, China.

Present academic position:

2021.7-now	Distinguished associate professor	Sichuan Agricultural University, Chengdu, China.
2023.1-now	Postdoctoral Research Fellow	School of Chinese Medicine, Hong Kong Baptist University, Hong Kong S.A.R, China.

Previous relevant research work：

Aptamer-based translational medicine for targeted therapy and drug delivery

Publication records:

Section A-Five most representative publications in the recent five years

(# co-first author; * corresponding author)

1. **Ren M**, Zhou J, Song Z, Mei H, Zhou M, Fu ZF, Han H, and Zhao L*, Aptamer and RVG functionalized gold nanorods for targeted photothermal therapy of neurotropic virus infection in the mouse brain. *Chemical Engineering Journal*, 2021. 411. 128557. **(IF: 16.744)**
2. **Ren M**, Wang Y*, Luo Y, Yao X, Yang Z, Zhang P, Zhao W, and Jiang D, Functionalized Nanoparticles in Prevention and Targeted Therapy of Viral Diseases With Neurotropism Properties, Special Insight on COVID-19. *Frontiers in Microbiology*, 2021. 12. 767104. **(IF: 6.064)**
3. **Ren M***, Zhou Y, Tu T, Jiang D, Pang M, Li Y, Luo Y, Yao X, Yang Z, and Wang Y, RVG Peptide-Functionalized Favipiravir Nanoparticle Delivery System Facilitates Antiviral Therapy of Neurotropic Virus Infection in a Mouse Model. *International Journal of Molecular Sciences*, 2023. 24. 5851. **(IF: 6.208)**
4. **Ren M**, Mei H, Zhou M, Fu ZF, Han H, Bi D, Peng F, and Zhao L*, Development of A Super-Sensitive Diagnostic Method for African Swine Fever Using CRISPR Techniques. *Virologica Sinica*, 2021. 36. 220-230. **(IF: 6.947)**
5. Zhou J[#], **Ren M**[#], Wang W, Huang L, Lu Z, Song Z, Foda MF, Zhao L, and Han H, Pomegranate-Inspired Silica Nanotags Enable Sensitive Dual-Modal Detection of Rabies Virus Nucleoprotein. *Analytical Chemistry*, 2020. 92. 8802-8809. **(IF: 8.008)**

Section B-Five most representative publications beyond the recent five-year period with the latest publication entered first

(# co-first author; * corresponding author)

1. **Ren M**, Mei H, Zhou J, Zhou M, Han H, and Zhao L*, Early diagnosis of rabies virus infection by RPA-CRISPR techniques in a rat model. *Archives of Virology*, 2021. 166. 1083-1092.

2. Zhou Y, **Ren M**[#], Zhang P, Jiang D, Yao X, Luo Y, Yang Z, and Wang Y*, Application of Nanopore Sequencing in the Detection of Foodborne Microorganisms. *Nanomaterials*, 2022. 12. 1534.
3. Huang F, **Ren M**[#], Pei J, Mei H, Sui B, Wu Q, Chai B, Yang R, Zhou M, Fu Z, Zhou H, and Zhao L*, Preexposure and Postexposure Prophylaxis of Rabies With Adeno-Associated Virus Expressing Virus-Neutralizing Antibody in Rodent Models. *Frontiers in Microbiology*, 2021. 12.
4. Jiang D, Zhang L, Zhu G, Zhang P, Wu X, Yao X, Luo Y, Yang Z, **Ren M**, Wang X, Chen S, and Wang Y*, The Antiviral Effect of Isatis Root Polysaccharide against NADC30-like PRRSV by Transcriptome and Proteome Analysis. *International Journal of Molecular Sciences*, 2022. 23. 3688.
5. Lu B, Yao X, Han G, Luo Z, Zhang J, Yong K, Wang Y, Luo Y, Yang Z, **Ren M**, and Cao S*, Isolation of Klebsiella pneumoniae Phage vB_KpnS_MK54 and Pathological Assessment of Endolysin in the Treatment of Pneumonia Mice Model. *Frontiers in Microbiology*, 2022. 13. 854908.

Patent:

1. **Ren M.** A T-705@MSN-RVG intracerebral drug delivery carrier and its preparation method (2023). Application ID: 202310069550.8. Chinese Patent.

Funded Projects

1. China Postdoctoral Science Foundation (2022M722300)	Construction and study of virus-targeting mesoporous silicon nanospheres in the brain of vesicular stomatitis virus infection model
2. The Sichuan Province Science and Technology Planning Program (2021ZDZX0010)	Study on the general RVG-mesoporous silicon nanosphere drug delivery system for the treatment of neurotropic virus infection
3. The Hong Kong Scholars Program 2022 (XJ2022047)	Aptamer: Molecular Insight & Translational Theranostics