

2024

Wang Y*, Lv H*, Lei R, Yeung YH, Shen IR, Choi D, Teo QW, Tan TJ, Gopal AB, Chen X, Graham CS. An explainable language model for antibody specificity prediction using curated influenza hemagglutinin antibodies. *Immunity* (In press).

2023

Wong LY, Odle A, Luhmann E, Wu DC, **Wang Y**, Teo QW, Ptak C, Sariol A, Lowery S, Mack M, Meyerholz DK. Contrasting roles of MERS-CoV and SARS-CoV-2 internal proteins in pathogenesis in mice. *Mbio*. 2023 Dec 19;14(6):e02476-23.

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Lei R, Tan TJC, Hernandez Garcia A, **Wang Y**, Diefenbacher M, Teo C, Gopan G, Tavakoli Dargani Z, Teo QW, Graham CS, Brooke CB, Nair SK, Wu NC. Prevalence and mechanisms of evolutionary contingency in human influenza H3N2 neuraminidase. *Nature Communications* 13:6443 (2022)

Liu T, **Wang Y**, Tan TJC, Wu NC#, Brooke CB#. The evolutionary potential of influenza A virus hemagglutinin is highly constrained by epistatic interactions with neuraminidase. *Cell Host & Microbe* 30:1363-1369.e4 (2022)

Liang W, Tan TJC, **Wang Y**, Lv H, Sun Y, Bruzzone R, Mok CKP#, Wu NC#. Egg-adaptive mutations of human influenza H3N2 virus are contingent on natural evolution. *PLoS Pathogens* 18:e1010875 (2022)

Wang Y*, Yuan M*, Lv H, Peng J, Wilson IA, Wu NC. A large-scale systematic survey reveals recurring molecular features of public antibody responses to SARS-CoV-2. *Immunity* 55(6):1105-1117 (2022). (Cover)

2021

Wang Y*, Lei R*, Nourmohammad A, Wu NC. Antigenic evolution of human influenza H3N2 neuraminidase is constrained by charge balancing. *eLife* 10:e72516 (2021)

Lv H*, Tsang OTY*, So RTY, **Wang Y**, Yuan M, Liu H, Yip GK, Teo QW, Yihan Lin Y, Liang W, Wang J, Ng WW, Wilson IA, Peiris JSM, Wu NC#, Mok CKP#. Homologous and heterologous serological response to the N-terminal domain of SARS-CoV-2 in humans and mice. *European Journal of Immunology* 51:2296-2305 (2021)

Tan TJC*, Yuan M*, Kuzelka K, Padron GC, Beal JR, Chen X, **Wang Y**, Rivera-Cardona J, Zhu X, Stadtmueller BM, Brooke CB, Wilson IA#, Wu NC#. Sequence signatures of two public antibody clonotypes that bind SARS-CoV-2 receptor binding domain. *Nature Communications* 12:3815 (2021)

Lamers MM, Mykytyn AZ, Breugem TI, **Wang Y**, Wu DC, Riesebosch S, van den Doel PB, Schipper D, Bestebroer T, Wu NC, Haagmans BL. Human airway cells prevent SARS-CoV-2 multibasic cleavage site cell culture adaptation. *eLife* 10:e66815 (2021)

2020

Lv H*, Wu NC*, Tsang OTY*, Yuan M, Perera RAPM, Leung WS, So RTY, Chan JMC, Yip GK, Chik TSH, **Wang Y**, Choi CYC, Lin Y, Ng WW, Zhao J, Poon LLM, Peiris JSM#, Wilson IA#, Mok CKP#. Cross-reactive antibody response between SARS-CoV-2 and SARS-CoV infections. *Cell Reports* 31:107725 (2020)

2018

Wang, Y*, Wei Zhou*, Feng Chen, Kaiyao Sun, Jixi Zhang, Ezgi Özliselib, and Jessica M. Rosenholm. "Terbium complexes encapsulated in hierarchically organized hybrid MOF particles toward stable luminescence in aqueous media." *CrytEngComm* 20.30 (2018): 4225-4229.

Talks & Presentations

- 2024-06** **American Society for Virology**
Talk: An Explainable Language Model for Antibody Specificity Prediction
- 2024-02** **Biophysical Society**
Poster: An Explainable Language Model for Antibody Specificity Prediction
- 2022-06** **Keystone symposia**
Poster: A large-scale systematic survey reveals recurring molecular features of public antibody responses to SARS-CoV-2
- 2022-07** **American Society for Virology Annual Meeting**
Talk: Antigenic evolution of human influenza H3N2 neuraminidase is constrained by charge balancing

Awards & Fellowships

- Art of Science Image Contest Winner (2024)
- Biophysical Society Travel Award (2024)
- “Life Inspiring” Art Competition Second Place Winner (2023)
- HERBERT E. CARTER FELLOWSHIP (2023)
- Biochemistry Department Graduate Student Conference (Travel) Awards (2022)
- Chongqing University Excellent Student Comprehensive Scholarship (2015 - 2019)
- National Encouragement Scholarship (2015 - 2019)
- "Meritorious Winner" in The Mathematical Contest in Modeling, COMAP (2017)