



## Taia T. Wang, MD, PhD, MSCI

Associate Professor of Medicine (Infectious Diseases) and of Microbiology and Immunology

Medicine - Infectious Diseases

### CONTACT INFORMATION

- **Lab Manager**

Courtney Scallan

**Email** [cscallan@stanford.edu](mailto:cscallan@stanford.edu)

### Bio

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#### BIO

Taia Wang is an Associate Professor of Medicine and a faculty member in the Institute for Immunity, Transplantation, and Infection. Her laboratory is defining new mechanisms in antibody and effector cell biology to enhance vaccine responses and improve disease outcomes. She completed the Medical Scientist Training Program at Mount Sinai School of Medicine, earning an M.D. and a Ph.D. in biomedical sciences for her research with Dr. Peter Palese which identified structural determinants of broad influenza virus immunity. Her postdoctoral research with Dr. Jeffrey Ravetch revealed that human IgG glycosylation is highly variable and is regulated by both vaccination and viral infections. Her studies on IgG glycosylation after vaccination demonstrated that CD23 is a receptor for sialylated IgG and modulates the quality of B cell responses following influenza virus vaccination. In viral infection, she discovered that severe dengue disease is correlated with elevations in afucosylated anti-dengue IgG and that these antibodies may contribute to aspects of dengue disease pathology. Using mechanistic in vivo models, she showed that IgG glycosylation can impact the quality of vaccine responses and the severity of infectious disease. Dr. Wang is a translational investigator with formal training in designing and implementing clinical studies at the Rockefeller University, where she earned a Master's degree in Clinical and Translational Investigation. She has received numerous awards, including the Searle Scholar's Award, the Burroughs Wellcome Fund Award for Investigators in the Pathogenesis of Infectious Disease, and the Bravo Family Faculty Scholar Endowment.

#### ACADEMIC APPOINTMENTS

- Associate Professor, Medicine - Infectious Diseases
- Associate Professor, Microbiology & Immunology
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H

#### ADMINISTRATIVE APPOINTMENTS

- Associate Director, Stanford Medical Scientist Training Program, (2020- present)

#### HONORS AND AWARDS

- Elected Member, American Society for Clinical Investigation (2024)
- Bravo Family Scholar, Stanford Institute for Immunity, Transplantation and Infection (2023)

- Investigator in the Pathogenesis of Infectious Disease Award, Burroughs Wellcome Fund (2022)
- Searle Scholars Award, The Searle Scholars Program (2018)
- Investigator Award, Chan Zuckerberg Biohub (2017)
- Young Physician-Scientist Award, The American Society for Clinical Investigation (2017)
- Leona M. and Harry B. Helmsley Scholar, Helmsley Charitable Trust (2015)
- Niarchos Scholar, Stavros Niarchos Foundation (2014)
- Iris and Junming Le Scholar, The Iris and Junming Le Foundation (2013)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Scientific Advisor, Nuvig Therapeutics (2024 - present)
- Member and Abstract Programming Chair, The American Association of Immunologists (2021 - present)
- Member, Infectious Diseases Society of America (2019 - present)
- Member, Henry Kunkel Society (2018 - present)
- Member, American Society for Microbiology (2016 - present)
- Associate Scientific Advisor, Science Translational Medicine (2015 - 2016)

## **PROFESSIONAL EDUCATION**

- Postdoctoral training, Rockefeller University , Fc receptor biology and human immunology (2016)
- MSCI, Rockefeller University , Masters of Science in Clinical Investigation (2015)
- MD, Mount Sinai School of Medicine , Medicine (2012)
- PhD, Mount Sinai School of Medicine , Virology (2010)

## **LINKS**

- The Atlantic: Immunology Is Where Intuition Goes to Die: <https://www.theatlantic.com/health/archive/2020/08/covid-19-immunity-is-the-pandemics-central-mystery/614956/>
- NY Times: In Early February, the Coronavirus Was Moving Through New York: <https://www.nytimes.com/2020/06/30/health/coronavirus-ny.html?searchResultPosition=2>
- NY Times: The Coronavirus Could Dodge Some Treatments, Study Suggests: <https://www.nytimes.com/2020/07/28/health/coronavirus-mutation-spike-treatment.html?searchResultPosition=3>
- Stanford faculty named in first cohort of Chan Zuckerberg Biohub investigators: <http://news.stanford.edu/2017/02/08/stanford-faculty-named-first-cohort-chan-zuckerberg-biohub-investigators/>
- An Open Label Study of IgG Fc Glycan Composition in Human Immunity: <https://clinicaltrials.gov/ct2/show/NCT01967238?term=taia+wang&rank=1>
- 5 Questions: Taia Wang on why some develop severe dengue disease: <https://med.stanford.edu/news/all-news/2017/02/5-questions-taia-wang-on-clues-to-severe-dengue-disease.html>
- A puzzling path from infection to Guillain-Barré syndrome: <http://stm.sciencemag.org/content/8/326/326ec28>
- Two-pronged approach to prevent pneumonia: <http://stm.sciencemag.org/content/7/296/296ec121>
- Influenza antibody archaeology: <http://stm.sciencemag.org/content/8/320/320ec4>
- Original antigenic sin strikes again?: <http://stm.sciencemag.org/content/7/290/290ec94.e-letters>
- Polypharmacy repercussions: <http://stm.sciencemag.org/content/7/314/314ec200>

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

Laboratory of Mechanisms in Human Immunity and Disease Pathogenesis

## PROJECTS

- Regulation of the IgG Fc domain repertoire - NIH NIAID R01 - Stanford University
- Immune determinants of dengue disease severity - Searle Scholars Award - Stanford University
- Regulation of lung immunity by antibody glycosylation - NIH NIAID R01 - Stanford University
- Defining the role of IgG Fc domains and their receptors in antiviral immunity - Chan Zuckerberg Initiative
- Enhancing IgG transfer to prevent perinatal infections - Bill & Melinda Gates Foundation - Rockefeller University
- Impact of Initial Influenza Exposure on Immunity in Infants - NIH NIAID U19 - St. Jude Children's Research Hospital
- Center for Influenza Vaccine Immunology and Development - NIH NIAID U19 - Icahn School of Medicine at Mount Sinai
- Rockefeller University Cooperative Centers of Human Immunology - NIH NIAID U19
- Stanford Cooperative Centers of Human Immunology - NIH NIAID U19 - Stanford University
- Mechanisms and Duration of Immunity to SARS-CoV-2 - NIH NIAID U19 - Stanford University
- Antibody responses in symptomatic and asymptomatic SARS-CoV-2 infections - NIH NIAID - Rockefeller University
- Immunity against COVID-19 - Fast Grants - Stanford University
- SARS-CoV-2 vaccine designed to enhance immunogenicity of the receptor binding domain - Bill and Melinda Gates Foundation - Stanford University
- Enhancing anti-CSP antibodies for in vivo potency against malaria infection - Bill & Melinda Gates Foundation
- Exploring new therapeutic concepts to mitigate emergent respiratory viral pandemics - HHMI Emerging Pathogens Initiative
- Biology of afucosylated antibodies in infectious disease - Burroughs Wellcome Fund PATH
- The immunology and impact of auto-antibody formation in COVID-19 - NIH NIAID R01 - Stanford University
- FLU-CODE: Influenza Modeling of Correlates of Protection for Optimal Immune Dynamics and Evolution
- Research and Development of Vaccines and Monoclonal Antibodies for Pandemic Preparedness, Flavivirus and Alphavirus

## Teaching

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### COURSES

#### 2024-25

- Advanced Immunology II: IMMUNOL 202 (Spr)
- MSTP Journal club: INDE 231 (Aut)
- Physician Scientist Hour: INDE 217 (Aut, Win, Spr)

#### 2023-24

- Advanced Immunology II: IMMUNOL 202 (Spr)
- Physician Scientist Hour: INDE 217 (Win)

#### 2022-23

- Advanced Immunology II: IMMUNOL 202 (Spr)
- MSTP Journal club: INDE 231 (Aut)
- Physician Scientist Hour: INDE 217 (Aut, Win, Spr)

#### 2021-22

- Advanced Immunology II: IMMUNOL 202 (Spr)
- Physician Scientist Hour: INDE 217 (Aut, Win, Spr)

## STANFORD ADVISEES

### Doctoral Dissertation Reader (AC)

Rebekah Costello, Adonis Rubio

### Postdoctoral Faculty Sponsor

Mingyu Han, Min Huang, Raquel M. Centeio, Anamika Singh

### Doctoral Dissertation Advisor (AC)

Desmond Edwards

### Postdoctoral Research Mentor

Eva Archer

## GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)
- Microbiology and Immunology (Phd Program)

## Publications

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### PUBLICATIONS

- **Soluble Factors and Mechanisms Regulated by Sialylated IgG Signaling.** *Immunological reviews*  
Edwards, D. L., Huang, M., Wang, T. T.  
2025; 330 (1): e70021
- **Coupling antigens from multiple subtypes of influenza can broaden antibody and T cell responses.** *Science (New York, N.Y.)*  
Mallajosyula, V., Chakraborty, S., Sola, E., Fong, R. F., Shankar, V., Gao, F., Burrell, A. R., Gupta, N., Wagar, L. E., Mischel, P. S., Capasso, R., Staat, M. A., Chien, et al  
2024; 386 (6728): 1389-1395
- **Linking Effector Function to Antitumor Monoclonal Antibody Efficacy** *JOURNAL OF IMMUNOLOGY*  
Wang, T. T.  
2024; 213 (10)
- **Sialylated IgG induces the transcription factor REST in alveolar macrophages to protect against lung inflammation and severe influenza disease.** *Immunity*  
Chakraborty, S., Cheng, B. Y., Edwards, D. L., Gonzalez, J. C., Chiu, D. K., Zheng, H., Scallan, C., Guo, X., Tan, G. S., Coffey, G. P., Conley, P. B., Hume, P. S., Janssen, et al  
2024
- **Linking Effector Function to Antitumor Monoclonal Antibody Efficacy.** *Journal of immunology (Baltimore, Md. : 1950)*  
Wang, T. T.  
2024; 213 (10): 1405-1406
- **Proceedings of the dengue endgame summit: Imagining a world with dengue control.** *Vaccine*  
Wegman, A. D., Kalimuddin, S., Marques, E. T., Adams, L. E., Rothman, A. L., Gromowski, G. D., Wang, T. T., Weiskopf, D., Hibberd, M. L., Alex Perkins, T., Christofferson, R. C., Gunale, B., Kulkarni, et al  
2024
- **Multi-omics analysis of mucosal and systemic immunity to SARS-CoV-2 after birth.** *Cell*  
Wimmers, F., Burrell, A. R., Feng, Y., Zheng, H., Arunachalam, P. S., Hu, M., Spranger, S., Nyhoff, L. E., Joshi, D., Trisal, M., Awasthi, M., Bellusci, L., Ashraf, et al  
2023
- **Spheromers reveal robust T cell responses to the Pfizer/BioNTech vaccine and attenuated peripheral CD8+ T cell responses post SARS-CoV-2 infection.** *Immunity*

- Gao, F., Mallajoyula, V., Arunachalam, P. S., van der Ploeg, K., Manohar, M., Röltgen, K., Yang, F., Wirz, O., Hoh, R., Haraguchi, E., Lee, J. Y., Willis, R., Ramachandiran, et al  
2023
- **Autoantibodies are highly prevalent in non-SARS-CoV-2 respiratory infections and critical illness.** *JCI insight*  
Feng, A., Yang, E. Y., Moore, A. R., Dhingra, S., Chang, S. E., Yin, X., Pi, R., Mack, E. K., Völkel, S., Geßner, R., Gündisch, M., Neubauer, A., Renz, et al  
2023; 8 (3)
  - **Early immune markers of clinical, virological, and immunological outcomes in patients with COVID-19: a multi-omics study.** *eLife*  
Hu, Z., van der Ploeg, K., Chakraborty, S., Arunachalam, P. S., Mori, D. A., Jacobson, K. B., Bonilla, H., Parsonnet, J., Andrews, J. R., Holubar, M., Subramanian, A., Khosla, C., Maldonado, et al  
2022; 11
  - **Durable protection against the SARS-CoV-2 Omicron variant is induced by an adjuvanted subunit vaccine.** *Science translational medicine*  
Arunachalam, P. S., Feng, Y., Ashraf, U., Hu, M., Walls, A. C., Edara, V. V., Zarnitsyna, V. I., Aye, P. P., Golden, N., Miranda, M. C., Green, K. W., Threeton, B. M., Maness, et al  
2022; 14 (658): eabq4130
  - **Anti-nucleocapsid antibody levels and pulmonary comorbid conditions are linked to post-COVID-19 syndrome.** *JCI insight*  
Jia, X., Cao, S., Lee, A. S., Manohar, M., Sindher, S. B., Ahuja, N., Artandi, M., Blish, C. A., Blomkains, A. L., Chang, I., Collins, W. J., Desai, M., Din, et al  
2022; 7 (13)
  - **Harnessing IgG Fc glycosylation for clinical benefit.** *Current opinion in immunology*  
Archer, E. J., Gonzalez, J. C., Ghosh, D., Mellins, E. D., Wang, T. T.  
2022; 77: 102231
  - **Heterogeneity in IgG-CD16 signaling in infectious disease outcomes** *IMMUNOLOGICAL REVIEWS*  
Gonzalez, J. C., Chakraborty, S., Thulin, N. K., Wang, T. T.  
2022
  - **TNF-alpha+ CD4+ T cells dominate the SARS-CoV-2 specific T cell response in COVID-19 outpatients and are associated with durable antibodies.** *Cell reports. Medicine*  
van der Ploeg, K., Kiro Singh, A. S., Mori, D. A., Chakraborty, S., Hu, Z., Sievers, B. L., Jacobson, K. B., Bonilla, H., Parsonnet, J., Andrews, J. R., Press, K. D., Ty, M. C., Ruiz-Betancourt, et al  
2022: 100640
  - **Differential Peripheral Blood Glycoprotein Profiles in Symptomatic and Asymptomatic COVID-19.** *Viruses*  
Pickering, C., Zhou, B., Xu, G., Rice, R., Ramachandran, P., Huang, H., Pham, T. D., Schapiro, J. M., Cong, X., Chakraborty, S., Edwards, K., Reddy, S. T., Guirgis, et al  
2022; 14 (3)
  - **Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity.** *Science translational medicine*  
Chakraborty, S., Gonzalez, J. C., Sievers, B. L., Mallajosyula, V., Chakraborty, S., Dubey, M., Ashraf, U., Cheng, B. Y., Kathale, N., Tran, K. Q., Scallan, C., Sinnott, A., Cassidy, et al  
1800: eabm7853
  - **Antibodies elicited by SARS-CoV-2 infection or mRNA vaccines have reduced neutralizing activity against Beta and Omicron pseudoviruses.** *Science translational medicine*  
Sievers, B. L., Chakraborty, S., Xue, Y., Gelbart, T., Gonzalez, J. C., Cassidy, A. G., Golan, Y., Prah, M., Gaw, S. L., Arunachalam, P. S., Blish, C. A., Boyd, S. D., Davis, et al  
1800: eabn7842
  - **Current and novel biomarkers of thrombotic risk in COVID-19: a Consensus Statement from the International COVID-19 Thrombosis Biomarkers Colloquium.** *Nature reviews. Cardiology*  
Gorog, D. A., Storey, R. F., Gurbel, P. A., Tantry, U. S., Berger, J. S., Chan, M. Y., Duerschmied, D., Smyth, S. S., Parker, W. A., Ajjan, R. A., Vilahur, G., Badimon, L., Berg, et al  
1800
  - **CELLULAR CORRELATES FOR PROTECTION AGAINST MALARIA ACQUIRED ACROSS MULTIPLE PREGNANCIES**  
Kiro Singh, A., De La Parte, L., Ty, M., Kakuru, A., Muhindo, M. K., Thulin, N., Kamy, M., Feeney, M., Dorsey, G., Wang, T., Jagannathan, P.

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- **New-onset IgG autoantibodies in hospitalized patients with COVID-19.** *Nature communications*  
Chang, S. E., Feng, A., Meng, W., Apostolidis, S. A., Mack, E., Artandi, M., Barman, L., Bennett, K., Chakraborty, S., Chang, I., Cheung, P., Chinthrajah, S., Dhingra, et al  
2021; 12 (1): 5417
- **New-Onset IgG Autoantibodies in Hospitalized Patients with COVID-19**  
Chang, S., Feng, A., Meng, W., Apostolidis, S., Mack, E., Artandi, M., Barman, L., Bennett, K., Chakraborty, S., Chang, I., Cheung, P., Chinthrajah, S., Dhingra, et al  
WILEY.2021: 3202-3205
- **An aberrant inflammatory response in severe COVID-19.** *Cell host & microbe*  
Merad, M., Subramanian, A., Wang, T. T.  
2021; 29 (7): 1043-1047
- **Immunity after SARS-CoV-2 infections.** *Nature immunology*  
Jagannathan, P., Wang, T. T.  
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- **Engineering luminescent biosensors for point-of-care SARS-CoV-2 antibody detection.** *Nature biotechnology*  
Elledge, S. K., Zhou, X. X., Byrnes, J. R., Martinko, A. J., Lui, I., Pance, K., Lim, S. A., Glasgow, J. E., Glasgow, A. A., Turcios, K., Iyer, N. S., Torres, L., Peluso, et al  
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- **SARS-CoV-2 vaccines in advanced clinical trials: where do we stand.** *Advanced drug delivery reviews*  
Chakraborty, S. n., Mallajosyula, V. n., Tato, C. M., Tan, G. S., Wang, T. T.  
2021
- **Illuminating the Fc dependence of SARS-CoV-2 neutralization.** *Immunity*  
González, J. C., Wang, T. T.  
2021
- **Peginterferon Lambda-1a for treatment of outpatients with uncomplicated COVID-19: a randomized placebo-controlled trial.** *Nature communications*  
Jagannathan, P. n., Andrews, J. R., Bonilla, H. n., Hedlin, H. n., Jacobson, K. B., Balasubramanian, V. n., Purington, N. n., Kamble, S. n., de Vries, C. R., Quintero, O. n., Feng, K. n., Ley, C. n., Winslow, et al  
2021; 12 (1): 1967
- **Proinflammatory IgG Fc structures in patients with severe COVID-19** *Nature Immunology*  
Chakraborty, S., Gonzalez, J., Edwards, K., ..., Wang, T. T.  
2021
- **Immunoglobulin E sialylation regulates allergic responses.** *Immunology and cell biology*  
Xie, M. M., Bertozzi, C. R., Wang, T. T.  
2020
- **Maternal Anti-Dengue IgG Fucosylation Predicts Susceptibility to Dengue Disease in Infants.** *Cell reports*  
Thulin, N. K., Brewer, R. C., Sherwood, R., Bournazos, S., Edwards, K. G., Ramadoss, N. S., Taubenberger, J. K., Memoli, M., Gentles, A. J., Jagannathan, P., Zhang, S., Libraty, D. H., Wang, et al  
2020; 31 (6): 107642
- **Defining the features and duration of antibody responses to SARS-CoV-2 infection associated with disease severity and outcome.** *Science immunology*  
Röltgen, K. n., Powell, A. E., Wirz, O. F., Stevens, B. A., Hogan, C. A., Najeeb, J. n., Hunter, M. n., Wang, H. n., Sahoo, M. K., Huang, C. n., Yamamoto, F. n., Manohar, M. n., Manalac, et al  
2020; 5 (54)
- **Engineering luminescent biosensors for point-of-care SARS-CoV-2 antibody detection.** *medRxiv : the preprint server for health sciences*  
Elledge, S. K., Zhou, X. X., Byrnes, J. R., Martinko, A. J., Lui, I. n., Pance, K. n., Lim, S. A., Glasgow, J. E., Glasgow, A. A., Turcios, K. n., Iyer, N. n., Torres, L. n., Peluso, et al

2020

- **FcRn, but not FcγRs, drives maternal-fetal transplacental transport of human IgG antibodies.** *Proceedings of the National Academy of Sciences of the United States of America*  
Borghi, S. n., Bournazos, S. n., Thulin, N. K., Li, C. n., Gajewski, A. n., Sherwood, R. W., Zhang, S. n., Harris, E. n., Jagannathan, P. n., Wang, L. X., Ravetch, J. V., Wang, T. T.  
2020
- **Competitive SARS-CoV-2 Serology Reveals Most Antibodies Targeting the Spike Receptor-Binding Domain Compete for ACE2 Binding.** *mSphere*  
Byrnes, J. R., Zhou, X. X., Lui, I. n., Elledge, S. K., Glasgow, J. E., Lim, S. A., Loudermilk, R. P., Chiu, C. Y., Wang, T. T., Wilson, M. R., Leung, K. K., Wells, J. A.  
2020; 5 (5)
- **Human B Cell Clonal Expansion and Convergent Antibody Responses to SARS-CoV-2.** *Cell host & microbe*  
Nielsen, S. C., Yang, F. n., Jackson, K. J., Hoh, R. A., Röltgen, K. n., Jean, G. H., Stevens, B. A., Lee, J. Y., Rustagi, A. n., Rogers, A. J., Powell, A. E., Hunter, M. n., Najeeb, et al  
2020
- **Imbalanced Host Response to SARS-CoV-2 Drives Development of COVID-19.** *Cell*  
Blanco-Melo, D. n., Nilsson-Payant, B. E., Liu, W. C., Uhl, S. n., Hoagland, D. n., Møller, R. n., Jordan, T. X., Oishi, K. n., Panis, M. n., Sachs, D. n., Wang, T. T., Schwartz, R. E., Lim, et al  
2020; 181 (5): 1036–45.e9
- **Proinflammatory IgG Fc structures in patients with severe COVID-19** *Nature Immunology*  
Chakraborty, S., Gonzales, J., Edwards, K., Mallajosyulla, V., Buzzanco, A. S., Sherwood, R., Buffone, C., Kathale, N., Providenza, S., Xie, M. M., Andrews, J. R., Blish, C. A., Singh, et al  
2020
- **Functional diversification of IgGs through Fc glycosylation** *JOURNAL OF CLINICAL INVESTIGATION*  
Wang, T. T., Ravetch, J.  
2019; 129 (9): 3492–98
- **IgG Fc Glycosylation in Human Immunity.** *Current topics in microbiology and immunology*  
Wang, T. T.  
2019
- **IgG Fc Glycosylation in Human Immunity** *Current Topics in Microbiology and Immunology*  
Wang, T. T.  
Springer Nature.2019: 63-76
- **Immunity by Design.** *Cell host & microbe*  
Wang, T. T.  
2018; 23 (4): 430–31
- **The Role of Fc Gamma Receptors in Broad Protection against Influenza Viruses.** *Vaccines*  
Thulin, N. K., Wang, T. T.  
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- **Immunological responses to influenza vaccination: lessons for improving vaccine efficacy.** *Current opinion in immunology*  
Wang, T. T., Bournazos, S. n., Ravetch, J. V.  
2018; 53: 124–29
- **IgG antibodies to dengue enhanced for FcγRIIIA binding determine disease severity.** *Science (New York, N.Y.)*  
Wang, T. T., Sewatanon, J., Memoli, M. J., Wrammert, J., Bournazos, S., Bhaumik, S. K., Pinsky, B. A., Choikephaibulkit, K., Onlamoon, N., Pattanapanyasat, K., Taubenberger, J. K., Ahmed, R., Ravetch, et al  
2017; 355 (6323): 395-398
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Bournazos, S., Wang, T. T., Dahan, R., Maamary, J., Ravetch, J. V.  
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2017; 35: 285–311
- **Sex Differences in Autoimmune Diseases** *HORMONES, BRAIN AND BEHAVIOR, VOL 4: CLINICALLY IMPORTANT HORMONE EFFECTS ON BRAIN AND BEHAVIOR, 3RD EDITION*  
Voskuhl, R., Wang, T. T., Lightman, S., Pfaff, D. W., Joels, M.  
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- **Increasing the breadth and potency of response to the seasonal influenza virus vaccine by immune complex immunization.** *Proceedings of the National Academy of Sciences of the United States of America*  
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- **The Role and Function of Fcγ Receptors on Myeloid Cells.** *Microbiology spectrum*  
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- **Sex Differences in Autoimmune Disease** *Hormones, Brain and Behavior*  
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Academic Press.2016; 3: 445–465
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- **Hemagglutinin stalk antibodies elicited by the 2009 pandemic influenza virus as a mechanism for the extinction of seasonal H1N1 viruses** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
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Wang, T. T., Palese, P.  
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- **Vaccination with a synthetic peptide from the influenza virus hemagglutinin provides protection against distinct viral subtypes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
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