

UNIVERSITY CURRICULUM VITAE FORMAT (Medical/Dental Schools, SGS, SPH)
(Times Roman font, 10 pt., Category headings: bold/CAPS, Margins: L=1.5", R=1.0", T=1", B=.5)

DATE: 7/1/26 **NAME:** Wen Zhang

PRESENT TITLE: Assistant Professor

OFFICE ADDRESS: 205 South Orange Avenue, G Level, Room G1228

TELEPHONE NUMBER/E-MAIL ADDRESS: 9739723071/wz514@njms.rutgers.edu

EDUCATION:

- A. Undergraduate Graduate and Professional
East China University of Science and Technology
Shanghai, China
B. Sc. in Biotechnology 7/2010
- B. Graduate and Professional
University of Chester
Chester, UK
M. Sc. in Management 10/2012

University of Leicester
Leicester, UK
M. Sc. in Cancer Biology 1/2013

Tsinghua University
Beijing, China
Ph.D. in Immunology 10/2018

POSTGRADUATE TRAINING:

- A. Postdoctoral Appointments
Weill Cornell Medicine, New York
Immunology
5/2019-11/2024

ACADEMIC APPOINTMENTS:

Department of Pharmacology, Physiology and Neuroscience
Rutgers, New Jersey Medical School
Assistant Professor (Tenure Track)
7/2026-present

Department of Medicine
Weill Cornell Medicine, Cornell University
Instructor
11/2024-6/2026

MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

The American Association of Immunologists
Member
2025-present

New York Academy of Sciences
Member
2022-present

International Cytokine and Interferon Society
Member
2022-present

HONORS AND AWARDS:

The NIH Pathway to Independence Award (K99/R00)
Awarded By National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
2024

Lefrançois-BioLegend Memorial Award
Awarded By The American Association of Immunologists
2026

Postdoc Travel Award
Awarded By International Cytokine and Interferon Society
2025

Best poster presentation
Awarded By Cell Symposia: Neuro-immune axis: Charting the periphery
2025

MIST Scholar Award
Awarded By National Institute of Allergy and Infectious Diseases (NIAID)
2024

Postdoc Travel Award
Awarded By Kenneth Rainin Foundation
2023

Research Fellowship Award
Awarded By Crohn's and Colitis Foundation
2022

Postdoc Travel Award
Awarded By International Cytokine and Interferon Society
2022

Best oral presentation
Awarded By Forum on Advancements in Immunology Research
2018

Best oral presentation
Awarded By Tsinghua Symposium on Advance Immunology
2017

GRANT SUPPORT: (Please list in either chronological order with newest or most current first OR in reverse chronological order, as desired)

A. Principal Investigator

1. 11/1/2024 – 5/1/2026 National Institute of Allergy and Infectious Diseases, Investigating the role of nociceptor sensory neurons in intestinal immunity, \$250,000
2. 7/11/2024 – 5/31/2026 National Institute of Diabetes and Digestive and Kidney Diseases, Nociceptor regulation of intestinal inflammation and tissue protection, NIH K99/R00 Pathway to Independence, \$928,500 (K99 phase for 2 years + R00 phase for 3 years)
3. 1/1/2022 – 12/31/2024 Crohn's and Colitis Foundation, The role of nociceptor sensory neurons in intestinal health and disease, \$172,725

PUBLICATIONS: (Please list in either chronological order with newest or most current first OR in reverse chronological order, as desired; published or accepted for publication only; should be segregated into the following categories)

A. Refereed Original Article in Journal

1. Foster PM, Preußner A, Yano H, Deshpande D, **Zhang W**, Kowalczyk A, Velleman L, Dubik MO, Uddin J, Emanuel ER, Leclère P, Mertens R, Gao X, Kofoed-Branzk M, Hauser AE, Mittrücker HW, Diefenbach A, Artis D, Klose CSN. *Blimp-1 integrates alarmin signals in ILC2s and drives proinflammatory functions required for type 2 immunity. Journal of Experimental Medicine.* 2026 <https://doi.org/10.1084/jem.20250781>
2. **Zhang W**, Emanuel ER, Yano H, Uddin J, Gaudino S, Xie Z, Ichise H, Wang Z, Cowan MN, Lyu M, Hou X, Zeng P, Hu E, Godoy VR, Grier A, Estep N, Ishibashi JR, Anover-Sombke S, Skene, PJ, Mayassi T, Xavier RJ, Germain RN, Globig AM, Heeg M, Goldrath AW, Kim B, Hu H, Artis D. *Neuronal-epithelial circuits promote sensory convergence and intestinal immunity. Nature.* 2026 <https://doi.org/10.1038/s41586-025-09921-z>
3. Uddin J, Yano H, Parkhurst CN, **Zhang W**, Ahmed A, Godoy VR, Wei Q, Panchakshari R, Henninot A, Dasgupta S, Gaudino S, Emanuel ER, Zeng P, Miranda I, Hu E, Tsou AM, IBD Live Cell Bank, Artis D. *CGRP-related neuropeptide adrenomedullin promotes tissue-protective ILC2 responses and limits intestinal inflammation. Nature Immunology.* 2025 [10.1038/s41590-025-02243-2](https://doi.org/10.1038/s41590-025-02243-2)
4. Jin WB, Xiao LY, Jeong M, Han SJ, **Zhang W**, Yano H, Shi H, Arifuzzaman M, Lyu M, Wang D, Tang YA, Qiao S, JRI IBD Live Cell Bank Consortium1, Yang X, Yang HS, Fu J, Sonnerberg GF, Collins N, Artis D, Guo CJ. *Microbiota-derived bile acids antagonize the host androgen receptor and drive anti-tumor immunity. Cell.* 188 (9): 2336-2353. 2025
5. Arifuzzaman M, Won HW, Yano H, Uddin J, Emanuel RE, Hu E, **Zhang W**, Li TT, Jin WB, Grier A, Kashyap S, Live Cell Bank, Guo CJ, Schroeder FC, Artis D. *Dietary fiber is a critical determinant of pathological responses and intestinal inflammation. Journal of Experimental Medicine.* 221 (5): e20232148. 2024
6. **Zhang W**, Lyu M, Bessman NJ, Xie Z, Mohammad A, Yano H, Parkhurst CN, Chu C, Zhou L, Putzel GP, Li TT, Jin WB, Zhou J, JRI LCB, Hu H, Tsou AM, Guo CJ, Artis D. *Gut-innervating nociceptors regulate the intestinal microbiota to promote tissue protection. Cell.* 185 (22): 4170-4189. 2022
7. Arifuzzaman M, Won HW, Li TT, Yano H, Digumarthi S, Heras AF, **Zhang W**, Parkhurst CN, Kashyap S, Jin WB, Putzel GG, Tsou AT, Chu C, Wei Q, Grier A, Live Cell Bank, Worgall S, Guo CJ, Schroeder FC, Artis D. *Inulin fibre promotes microbiota-derived bile acids and type 2 inflammation. Nature.* 611, 578-584. 2022

8. Tsou AM, Yano H, Parkhurst CN, Mahlaköiv T, Chu C, **Zhang W**, He Z, Jarick KJ, Zhong C, Putzel GG, Hatazaki M, JRI IBD Live Cell Bank Consortium, Lorenz IC, Andrew D, Balderes P, Klose CSN, Lira SA, Artis D. Neuropeptide regulation of non-redundant ILC2 responses at barrier surfaces. *Nature*. 611, 787-793. 2022
9. Lyu M, Suzuki H, Kang L, Gaspal F, Zhou W, Goc J, Zhou L, Zhou J, **Zhang W**, JRI Live Cell Bank, Shen Z, Fox JG, Sockolow RE, Laufer TM, Fan Y, Eberl G, Withers DR, Sonnenberg GF. ILC3s select microbiota-specific regulatory T cells to establish tolerance in the gut. *Nature*. 610, 744-751. 2022
10. Chu C, Parkhurst C*, **Zhang W***, Zhou L, Yano H, Mohammad A, Artis D. The ChAT-acetylcholine pathway promotes group 2 innate lymphoid cell responses and anti-helminth immunity. *Science Immunology*. 57 (6): eabe3218. 2021
11. Flamar A, Klose C, Moeller J, Mahlaköiv T, Bessman N, **Zhang W**, Moriyama S, Stokic-Trtica V, Rankin L, Putzel G, Rodewald H, He Z, Chen L, Lira S, Karsenty G, Artis D. Interleukin-33 induces the enzyme tryptophan hydroxylase 1 to promote inflammatory group 2 innate lymphoid cell-mediated immunity. *Immunity*. 52 (4): 606-619. 2020
12. Lv M, Chen M, Zhang R, **Zhang W**, Wang C, Zhang Y, Wei X, Guan Y, Liu J, Feng K, Jing M, Wang X, Liu Y, Mei Q, Han W, Jiang Z. Manganese is critical for antitumor immune responses via cGAS-STING and improves the efficacy of clinical immunotherapy. *Cell Research*. 30 (11), 966-979. 2020
13. **Zhang W**, Li Q, Li D, Li J, Aki D, Liu YC. The E3 ligase VHL controls alveolar macrophage function via metabolic-epigenetic regulation. *Journal of Experimental Medicine*. 215 (12): 3180-3193. 2018
14. Aki D*, Li H*, **Zhang W***, Zheng M, Elly C, Lee JH, Zou WG, Liu YC. The E3 ligases Itch and WWP2 cooperate to limit Th2 differentiation by enhancing signaling through the TCR. *Nature Immunology*. 19, 766-775. 2018
15. Li Q, Li D, Zhang X, Wan Q, **Zhang W**, Zheng M, Zhou L, Elly C, Lee JH, Liu YC. E3 ligase VHL promotes group 2 innate lymphoid cells maturation and function via glycolysis inhibition and induction of interleukin-33 receptor. *Immunity*. 48 (2): 258-270. 2018

B. Other Articles (Reviews, Editorials, etc.) In Journals; Chapters; Books; other Professional Communications

1. **Zhang W**, Artis D. Stressing out the microbiota via a brain-neuroglandular circuit. *Cell Research*. 35, 233-234. 2024
2. Aki D, **Zhang W**, Liu YC. The E3 ligase Itch in immune regulation and beyond. *Immunological Reviews*. 266(1), 6-26.2. 2015

PRESENTATIONS: (Please list in either chronological order with newest or most current first OR in reverse chronological order, as desired)

A. Scientific (Basic Science):

- 2026 IMMUNOLOGY2026™, Boston, USA – Invited short talk
 2025 The 13th Annual Meeting of the International Cytokine & Interferon Society, Seattle, Washington, USA – Poster presentation
 2025 Cell Symposia: Neuro-immune axis: Charting periphery – Poster presentation
 2024 Cell Symposia: Mucosal immunology: Immunity at the barriers, Beijing, China – Invited short talk
 2024 Keystone Symposia on Regulation of Barrier Immunity, Banff, Canada – Invited short talk
 2023 Kenneth Rainin Foundation Innovations Symposium, San Francisco, California, USA – Poster presentation
 2023 Crohn's and Colitis Foundation Researcher Symposium, New York, USA – Invited speaker
 2022 The 10th Annual Meeting of the International Cytokine & Interferon Society (ICIS) joint with the 4th International Conference on Innate Lymphoid Cells, Big Island, Hawaii, USA – Poster presentation
 2018 Forum on Advancements in Immunology Research, Shanghai, China – Invited short talk
 2017 Tsinghua Symposium on Advance Immunology, Beijing, China – Invited short talk